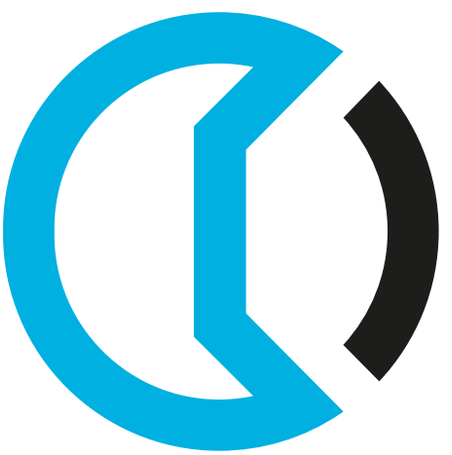
GENERAL CATALOG



CEMBRE

www.cembre.com

CEMBRE AT A GLANCE

INNOVATION IS IN OUR DNA

211
Patents and filled applications

71
Registered trademarks

MAIN MANUFACTURING SITE, ITALY

60,000
m^2 of space dedicated to offices, factories, laboratories

121,000
m^2 of site

OUR PRODUCT CODES

21,500
different product codes sold each year

21,800
product codes are available for immediate dispatch

AUTOMATED WAREHOUSE

60,000
bins capacity

10,000
order lines per working day

are registered trademarks of Cembre S.p.A.

CEMBRE
Cembre
Crimpstar
ZETApiù
ZETAblock
ZETAmini
SICURclips
MAXIblock
spiralblock
MAXIbrass

Quality and Innovation: our priorities

Certified Quality Management System

Certified Environmental Management System

Certified Occupational Health&Safety Management System

Certificate of Approval

This is to certify that the Management System of:

CEMBRE S.p.A.

Via Serenissima 9, 25135 Brescia, Italy

has been approved by Lloyd's Register to the following standards:

ISO 9001:2015

Approval number(s): ISO 9001 – 00300013

This certificate is valid only in association with the certificate schedule bearing the same number on which the locations applicable to this approval are listed.

The scope of this approval is applicable to:
Design, manufacture and sales of electrical connectors and associated tools, cable accessories, marking systems, toolings and products for railway applications. Tools for pressed joints for water, gas, steam, waste and HVAC and related accessories. In house repair, refurbishment and calibration of toolings.

Daniel Oliva Marcilio de Souza
Area Operations Manager - South Europe
Issued by: Lloyd's Register Quality Assurance Italy Srl
for and on behalf of: Lloyd's Register Quality Assurance Limited

Certificate of Approval

This is to certify that the Management System of:

CEMBRE S.p.A.

Via Serenissima 9, 25135 Brescia, Italy

has been approved by Lloyd's Register to the following standards:

ISO 14001:2015

Approval number(s): ISO 14001 – 00294452

This certificate is valid only in association with the certificate schedule bearing the same number on which the locations applicable to this approval are listed.

The scope of this approval is applicable to:
Design, manufacture and sales of electrical connectors and associated tools, cable accessories, marking systems, toolings and products for railway applications. Tools for pressed joints for water, gas, steam, waste and HVAC and related accessories. In house repair, refurbishment and calibration of toolings.

Daniel Oliva Marcilio de Souza
Area Operations Manager - South Europe
Issued by: Lloyd's Register Quality Assurance Italy Srl
for and on behalf of: Lloyd's Register Quality Assurance Limited

Certificate of Approval

This is to certify that the Management System of:

CEMBRE S.p.A.

Via Serenissima 9, 25135 Brescia, Italy

has been approved by Lloyd's Register to the following standards:

ISO 45001:2018

Approval number(s): ISO 45001 – 00293580

This certificate is valid only in association with the certificate schedule bearing the same number on which the locations applicable to this approval are listed.

The scope of this approval is applicable to:
Design, manufacture and sales of electrical connectors and associated tools, cable accessories, marking systems, toolings and products for railway applications. Tools for pressed joints for water, gas, steam, waste and HVAC and related accessories. In house repair, refurbishment and calibration of toolings.

Daniel Oliva Marcilio de Souza
Area Operations Manager - South Europe
Issued by: Lloyd's Register Quality Assurance Italy Srl
for and on behalf of: Lloyd's Register Quality Assurance Limited

"It is the aim of CEMBRE S.p.A. and all its employees to pursue the satisfaction of their customers through the fulfilling of their needs by meeting their legitimate expectations."

To achieve this goal, CEMBRE places the following principles at the very heart of its work:

- highest quality product and services
- continuously research and innovative solutions.
- safeguarding the environment and protecting the health and safety of workers and users of its products
- respect and promote the values set out in the Company's Code of Ethics
- ensure strict fulfillment of statutory, national and international laws and regulations

The Company's Management System, certified in accordance with ISO 9001 : 2015 quality standards, ISO 14001 : 2015 for environmental protection and ISO 45001 : 2018 standard for the protection of the health and safety of workers, **are the tools used to translate the principles of company policy into corporate objectives and to monitor their fulfilment.**

RoHS COMPLIANT 2011/65/EU

All Cembre products comply with Directive 2011/65/EU of the European Parliament and Council dated 8 June 2011 (and subsequent amendments)

Index

ELECTRICAL CONNECTORS

symbol description ... 4
PVC INSULATED CRIMP TERMINALS ... 6
FEMALE DISCONNECT TERMINALS ... 8
MALE DISCONNECT TERMINALS ... 8
MALE/FEMALE ... 8
BULLET AND SOCKET ... 8
END TO END AND PARALLEL CONNECTORS ... 9
END TO END CONNECTORS ... 9
CLOSE END CONNECTORS ... 9
HALOGEN FREE INSULATED TERMINALS ... 10
REINFORCED PA 6.6 INSULATED TERMINALS ... 12
REINFORCED DISCONNECT TERMINALS ... 14
FEMALE CONNECTORS ... 14
MALE CONNECTORS ... 15
MALE TABS ... 15
CONNECTOR SLEEVES ... 15
INSULATED CHAIN TERMINALS ... 16
PA6 INSULATED END SLEEVES ... 18
"TWIN" PA6 INSULATED END SLEEVES ... 19
POLYPROPYLENE INSULATED CHAIN END SLEEVES ... 20
UNINSULATED END SLEEVES ... 21
NYLON INSULATED COPPER TUBE LUGS ... 22
NYLON INSULATED FORK TERMINALS ... 25
NYLON INSULATED PIN TERMINALS ... 25
UNINSULATED TERMINALS ... 26
CRIMPING CONNECTORS ACCORDING TO DIN 46234 ... 28
UNINSULATED ROUND PIN CONNECTORS ... 30
UNINSULATED ROUND PIN CONNECTORS ANGLED 45° ... 30
UNINSULATED PIN CONNECTORS ... 31
UNINSULATED FORK TERMINALS ... 31
COLOR CODED COPPER CRIMPING LUGS ... 32
COLOR CODED SPLICES ... 36
THROUGH CONNECTORS ... 37
PARALLEL CONNECTORS ... 37
COPPER TUBE CRIMPING LUGS ... 38
RING TONGUE TERMINALS WITH CONTAINED PALM ... 41
COPPER TUBE CRIMPING LUGS ANGLED 90° ... 42
COPPER TUBE LUGS 4-ESI FIXING ... 43
DOUBLE HOLE COPPER TUBE CRIMPING LUGS ... 44
HEAVY DUTY COPPER TUBE TERMINALS ... 46
HEAVY DUTY COPPER TUBE TERMINALS ... 47
COPPER TUBE CRIMPING LUGS ACCORDING TO DIN 46235 ... 48
CRIMPING THROUGH CONNECTORS ACCORDING TO DIN 46267 T.1 ... 49
COPPER TUBE CRIMPING LUGS ACCORDING TO NF C 20-130 ... 50
COPPER TUBE CRIMPING LUGS ANGLED 90° ... 51
CRIMPING THROUGH CONNECTORS ... 51
MEDIUM VOLTAGE COPPER TERMINALS ... 52
MEDIUM VOLTAGE STALK CONNECTORS ... 54
MEDIUM VOLTAGE COPPER THROUGH CONNECTORS ... 55
SLEEVE CONNECTORS ... 56
H CLAMPS ... 58
TWIN CABLE TERMINAL LUGS FOR ROUND CONDUCTORS ... 59
COPPER TUBE CRIMPING LUGS WITH 2 HOLE FIXING ... 60
MECHANICAL FIXING LUGS ... 61
CABLE CLAMPS ... 61
ALUMINUM TERMINALS ... 62
THROUGH CONNECTORS ... 63
REDUCER THROUGH CONNECTORS ... 63
BIMETALLIC CONNECTORS ... 64
MECHANICAL LUGS ... 65
MECHANICAL LUGS WITH SYMMETRICAL PALM ... 66
MECHANICAL SPLICES ... 66

TERMINAL BLOCKS, FLEXIBLE BUSBAR, BRAIDS AND DISTRIBUTION BLOCKS

symbol description ... 68
example applications ... 69
SINGLE POLE TERMINAL BLOCKS ... 70
CONNECTING CAPACITY OF TERMINAL BLOCKS ... 72
POWER DISTRIBUTION BLOCK ... 74
CONNECTING CAPACITY OF POWER DISTRIBUTION BLOCK .75
ONE WAY TERMINAL BLOCKS ... 76
TERMINAL BLOCK TYPE EKL ... 77
TERMINAL BLOCK TYPE ZS ... 77
UNIPOLAR DISTRIBUTION BLOCKS ... 78
BIPOLAR DISTRIBUTION BLOCKS ... 78
TETRAPOLAR DISTRIBUTION BLOCKS ... 79
ACCESSORIES ... 79
INSULATED FLEXIBLE BUSBAR ... 80
FLEXIBLE BRAIDS ... 83
CABLE TIES ... 84
ACCESSORIES ... 88
INSULATED COVERS ... 89
TERMOCOIL HEAT-SHRINKABLE TUBING ... 90
TERMOSTRIP HEAT-SHRINKABLE TUBING ... 92
TERMOBLOCK HEAT-SHRINKABLE TUBING ... 94
CAST RESIN JOINTS ... 95

CABLE GLANDS AND ACCESSORIES

symbol description ... 98
range overview ... 99
MAXIBLOCK CABLE GLANDS ... 100
SPIRALBLOCK CABLE GLANDS ... 104
MAXIBLOCK ATEX AND UKEX CABLE GLANDS ... 105
COMPRESSION CABLE GLANDS ... 106
POLYSTYRENE CABLE GLANDS ... 107
MAXIBRASS CABLE GLANDS ... 108
MAXIBRASS ATEX AND UKEX CABLE GLANDS ... 112
EMC CABLE GLANDS ... 112
COMPRESSION CABLE GLANDS ... 113
MAXIINOX CABLE GLANDS ... 114
LOCKNUTS WITH COLLAR ... 116
LOCKNUTS WITHOUT COLLAR ... 117
LOCKNUTS ... 118
EMC LOCKNUTS ... 119
MAXIINOX LOCKNUTS ... 119
INTERNAL PLUGS FOR CABLE GLANDS ... 120
MULTI-ENTRY SEALS FOR CABLE GLANDS ... 121
MULTI-ENTRY SEAL PLUGS FOR CABLE GLANDS ... 121
ENTRY THREAD ADAPTERS ... 122
ACCESSORIES ... 125
SEALING RINGS ... 126
ENTRY PLUGS ... 129
ENTRY BUSHES ... 130
ENTRY PLUGS ... 131
ENTRY BUSHES ... 131
RUTASEAL GROMMETS ... 132
MODULAR RETAINING CLIPS ... 132

MECHANICAL AND PNEUMATIC TOOLS

symbol description ... 134
MECHANICAL TOOLS CRIMPSTAR® RANGE ... 136
MECHANICAL TOOLS ... 144
MECHANICAL TOOLS ND® RANGE ... 146
MECHANICAL TOOLS ZKE RANGE ... 147
MECHANICAL TOOLS HP4 RANGE ... 148
MECHANICAL TOOL HWE1N ... 150
MECHANICAL TOOL IDT ... 151
MECHANICAL TOOLS TN RANGE ... 152
MECHANICAL TOOLS TNE RANGE ... 153
WIRE STRIPPERS HB RANGE ... 156
CABLE STRIPPING TOOLS HB RANGE ... 157
HAND TOOLS FOR CABLE TIES ... 157
CABLE CUTTERS KT RANGE ... 158
HAND TOOLS ... 159
FRAME-TYPE HOLE PUNCHING TOOL ... 159
ASSORTMENT CASE ... 160

BENCH PRESS TOOLS

BENCH PRESS TOOL ... 162
ELECTRO-PNEUMATIC BENCH PRESS ... 164
PNEUMATIC CRIMPING TOOLS ... 165
BENCH PRESS ... 166

PROFESSIONAL EQUIPMENT

symbol description ... 168
PROFESSIONAL SCISSORS SC5X ... 170
PROFESSIONAL SCISSORS SC6X ... 171
PROFESSIONAL SCISSORS SC RANGE ... 172
CBLIGHT ... 174
PROFESSIONAL SCREWDRIVERS SDC RANGE ... 178
PROFESSIONAL HEX SOCKET SCREWDRIVERS ... 181
UNIVERSAL KEY UKC4 ... 181
PROFESSIONAL PLIERS ... 182
PROFESSIONAL TOOL HOLDERS ... 184
PROFESSIONAL SPANNERS ... 196
PROFESSIONAL TORQUE WRENCHES ... 199
PROFESSIONAL SOCKETS & DRIVES ... 200
PROFESSIONAL SPANNERS & SOCKETS ... 201
PROFESSIONAL HAMMMERS & REMOVAL TOOLS ... 202
PROFESSIONAL CUTTERS, SAWS & FILES ... 203
PROFESSIONAL DIGITAL INSTRUMENTS ... 204
PROFESSIONAL LEVELS ... 205
PROFESSIONAL HOLE MAKING ACCESSORIES ... 206

HYDRAULIC TOOLS AND HEADS

symbol description ... 210
HYDRAULIC CRIMPING TOOLS ... 212
HYDRAULIC PRESSHEADS ... 214
HYDRAULIC CUTTING TOOLS ... 225
HYDRAULIC CUTTING HEADS ... 225
FRAME-TYPE HOLE PUNCHING HEAD ... 232
PIERCING HEADS ... 233
PULLER-TYPE HOLE PUNCHING TOOLS ... 234
PULLER-TYPE HOLE PUNCHING HEAD ... 235
NUT SPLITTING HEADS ... 236

CORDLESS HYDRAULIC TOOLS

symbol description ... 238
18.0 V - 5.2 Ah CORDLESS TOOL FEATURES ... 240
18.0 V - 2.0 Ah CORDLESS TOOL FEATURES ... 241
18.0 V CORDLESS HYDRAULIC CRIMPING TOOL ... 242
18.0 V CORDLESS HYDRAULIC CRIMPING TOOL ... 243
18.0 V CORDLESS HYDRAULIC CUTTING TOOL ... 252
18.0 V CORDLESS HYDRAULIC FRAME-TYPE HOLE PUNCHING TOOL ... 265
18.0 V CORDLESS HYDRAULIC PULLER-TYPE HOLE PUNCHING TOOL ... 266
PUNCHING ACCESSORIES AVAILABLE ... 268
18.0 V CORDLESS HYDRAULIC NUT SPLITTING TOOLS ... 269
PRESSURE TEST DEVICE ... 270

HYDRAULIC PUMPS AND UNITS

HYDRAULIC PUMP ... 272
PORTABLE ELECTRO-HYDRAULIC PUMP ... 274
PORTABLE ELECTRO-HYDRAULIC PUMPS B70M-P36A RANGE ... 276
PORTABLE ELECTRO-HYDRAULIC PUMP ... 277
ACCESSORIES FOR B70M-P36A ... 278
HYDRAULIC UNIT ... 279
HYDRAULIC CUTTING UNIT ... 281
ACCESSORIES FOR CORDLESS TOOLS ... 282
ACCESSORIES FOR STORAGE OF DIES ... 283
TRANSPORT ACCESSORIES ... 283
ACCESSORIES FOR NON-INSULATED HYDRAULIC PUMPS ... 284
ACCESSORIES FOR INSULATED HYDRAULIC PUMPS ... 284

DIE SELECTOR CHART

DIE SELECTOR CHART ... 286
DIE SELECTOR CHART FOR DEEP STEPPED INDENTING WITH CONTAINING DIES ... 297
DIE SELECTOR CHART ... 299
MUT DIES CROSS REFERENCE CHART ... 300

APPENDIX

Type/Code Cross-Reference chart ... 302
Comparison of AWG, MCM and Metric conductor cross sections ... 314
IEC 60228 : 2004 - 11 conductor tables ... 315
IEC 60228 : 2004 - 11 conductor tables ... 316
IEC 60228 : 2004 - 11 conductor tables ... 317
System of denomination of harmonised cables according to CENELEC HD 361 ... 318
UL and VDE marking of cable glands ... 319
Ingress protection (IP) rating according to EN 60529 - CEI 70-1 ... 320
Flammability test for products and materials ... 321
Recommended torque settings for cable glands ... 322
Identification & Labelling ... 323
General terms and conditions of sale ... 324

ELECTRICAL CONNECTORS

CEMBRE

symbol description

electrical connectors

Insulation sleeve in Polyvinylchloride

Insulation sleeve in Polycarbonate

Insulation sleeve in Nylon PA6.6

Insulation sleeve in Polyethylene High Density

Heat shrinkable

Insulation sleeve form to allow easy "introduction" of the conductor

Manufactured from electrolytic Copper strip

Manufactured from Brass strip

Manufactured from electrolytic Copper tube

Manufactured from electrolytic Copper wire

Brazed seam

Brass connectors

Bimetallic connectors, Aluminum and Copper.

Aluminum connectors

Aldrey connectors

Zinc Plated Steel connectors

Internal surface is filled with special grease so as to avoid oxidation of the connector

Connector provided with central stop

Color coded connectors

Facilitated introduction of the conductor

Inspection hole for checking the correct introduction of the conductor

Contained palm connectors

Annealed material

Electrolytically tin plated to avoid oxidation; min 3µm

Lugs angled

Zinc Plated Steel screws

symbol description

electrical connectors

Zinc Plated Steel nuts

Hexagonal crimp

Radial crimp

Indent crimp

Indent crimp

Oval crimp

Trapezium crimp

Circular crimp

Semicircular crimp

Indent crimp

Operating temperature range

Degree of protection

UL LISTING Marking valid in USA & CANADA

UL LISTING Marking valid in USA & CANADA

In accordance with DIN 46235

Meets the requirements for fire testing of materials and components for trains EN 45545-2:2015

Halogen free

CEMBRE

RF BF GF

PVC INSULATED CRIMP TERMINALS

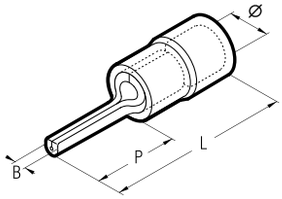
F range funnel entry - for Copper conductors

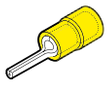
PVC | Cu-ETP | EASY ENTRY | ANNEALED | 3µm TIN PLATED | -4°F +176°F | RADIAL

The unique funnel shaped PVC sleeve guarantees total insertion of the conductor strands into the terminal barrel, creating a secure and reliable, electrical and mechanical connection. Electrical connectors are produced using electrolytic Copper with a purity greater than 99.9%.
The internal surface of the barrel is rifled to improve contact with conductor strands when crimped and to increase tensile strength.
The "F" range of terminals offers a wide selection of rings, forks, pins and blades, designed to meet the ever changing end user requirements. The PVC insulation, is a self extinguishing thermoplastic material class V0 (UL 94).
The operating temperature range is – 4 to + 176°F (Surge + 194°F).
Recommended crimping tools are shown on pages 136 to 163, 242.

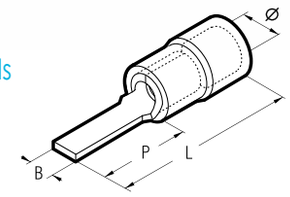
c UL us File no. E125401

pin terminals



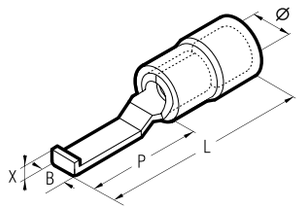
Cond. Size AWG (sqmm)	Type	Dimensions in. Ø	B	P	L	Quantity Box/Bag
22÷16 (0.25÷1.5)	RF-P8	0.16	0.06	0.31	0.70	3,000/100
	RF-P10	0.16	0.06	0.39	0.78	3,000/100
	RF-P12	0.16	0.06	0.47	0.87	3,000/100
16÷14 (1.5÷2.5)	BF-P8	0.19	0.06	0.31	0.70	2,500/100
	BF-P10	0.19	0.06	0.39	0.78	2,500/100
	BF-P12	0.19	0.06	0.47	0.86	2,500/100
 12÷10 (4÷6)	GF-P10	0.26	0.09	0.39	0.96	1,000/100
	GF-P12	0.26	0.09	0.47	1.05	1,000/100
	GF-P14	0.26	0.09	0.55	1.13	1,000/100

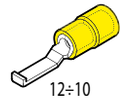
blade terminals



Cond. Size AWG (sqmm)	Type	Dimensions in. Ø	B	P	L	Quantity Box/Bag
22÷16 (0.25÷1.5)	RF-PP12	0.16	0.12	0.50	0.90	3,000/100
	RF-PP12/1	0.16	0.12	0.44	0.84	3,000/100
	RF-PP12/19	0.16	0.07	0.52	0.91	3,000/100
	RF-PP12/23	0.16	0.09	0.52	0.91	2,500/100
	RF-PP14	0.16	0.12	0.58	0.98	2,500/100
	RF-PP16/23	0.16	0.09	0.68	1.07	2,500/100
16÷14 (1.5÷2.5)	BF-PP10	0.19	0.14	0.39	0.79	2,500/100
	BF-PP12	0.19	0.14	0.50	0.90	2,500/100
	BF-PP12/25	0.19	0.10	0.52	0.92	2,000/100
	BF-PP12/29♦	0.19	0.11	0.52	0.92	2,500/100
	BF-PP16/25	0.19	0.10	0.68	1.07	2,500/100
12÷10 (4÷6)	GF-PP12	0.26	0.16	0.52	1.08	1,000/100
	GF-PP17	0.26	0.11	0.76	1.31	1,000/100

hooked blade terminals



Cond. Size AWG (sqmm)	Type	Dimensions in. Ø	B	P	L	X	Quantity Box/Bag
22÷16 (0.25÷1.5)	RF-PPL30♦	0.16	0.12	0.69	1.11	0.07	2,500/100
	RF-PPL46♦	0.16	0.18	0.69	1.11	0.07	2,500/100
16÷14 (1.5÷2.5)	BF-PPL30♦	0.19	0.12	0.69	1.11	0.07	2,000/100
	BF-PPL46♦	0.19	0.18	0.69	1.11	0.07	2,000/100
 12÷10 (4÷6)	GF-PPL46♦	0.26	0.18	0.69	1.28	0.07	1,000/100

♦Not UL approved

PVC INSULATED CRIMP TERMINALS

RF BF GF

F range funnel entry - for Copper conductors

File no. E125401

NEW

VALSTAR-N4

Robust plastic case with compartments, containing:

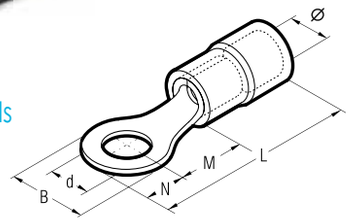
- An assortment of PVC insulated crimp terminals for conductor sizes 22÷10 AWG.
- Cable ties
- Tool Crimpstar® HP3.

Connectors included:

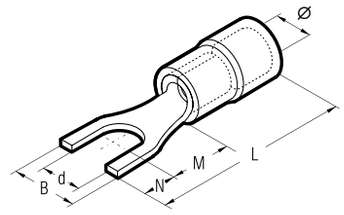
- Qty 100 terminals RF-M4
- Qty 100 terminals BF-M5
- Qty 100 terminals GF-M6
- Qty 100 terminals RF-F608P
- Qty 100 terminals BF-F608P
- Qty 100 connectors PL03-M
- Qty 100 cable ties G100X2.5

PVC · Cu-ETP · EASY ENTRY · ANNEALED · 3µm TIN PLATED · -4°F +176°F · RADIAL

ring terminals



fork/spade terminals



Cond. Size AWG (sqmm)	Ø Stud in.	Type	Dimensions in. Ø	B	M	N	L	d	Quantity Box/Bag
22÷16 (0.25÷1.5)	#3	RF-M2*♦	0.16	0.22	0.18	0.11	0.68	0.09	3,000/100
	#4	RF-M3	0.16	0.22	0.18	0.11	0.68	0.13	3,000/100
	#6	RF-M3.5	0.16	0.22	0.18	0.11	0.68	0.15	3,000/100
	#6	RF-M3.5/1	0.16	0.24	0.28	0.12	0.80	0.15	3,000/100
	#8	RF-M4	0.16	0.28	0.26	0.14	0.79	0.17	3,000/100
	#8	RF-M4/3♦	0.16	0.31	0.28	0.15	0.83	0.17	3,000/100
	#10	RF-M5	0.16	0.31	0.28	0.15	0.83	0.21	2,500/100
	1/4"	RF-M6	0.16	0.37	0.32	0.19	0.9	0.25	2,500/100
	1/4"	RF-M6/1	0.16	0.47	0.41	0.24	1.04	0.25	2,000/100
	17/64"	RF-M7	0.16	0.37	0.32	0.19	0.90	0.28	2,500/100
	5/16"	RF-M8	0.16	0.47	0.41	0.24	1.04	0.33	2,000/100
	3/8"	RF-M10	0.16	0.61	0.51	0.30	1.21	0.41	1,500/100
	1/2"	RF-M12	0.16	0.71	0.61	0.35	1.36	0.51	1,500/100
16÷14 (1.5÷2.5)	#3	BF-M2*♦	0.19	0.22	0.20	0.11	0.70	0.09	3,000/100
	#4	BF-M3	0.19	0.22	0.20	0.11	0.70	0.13	2,500/100
	#6	BF-M3.5	0.19	0.22	0.20	0.11	0.70	0.15	2,500/100
	#6	BF-M3.5/1	0.19	0.24	0.26	0.12	0.77	0.15	2,500/100
	#8	BF-M4	0.19	0.31	0.26	0.16	0.81	0.17	2,500/100
	#10	BF-M5	0.19	0.31	0.30	0.16	0.85	0.21	2,000/100
	1/4"	BF-M6	0.19	0.37	0.34	0.19	0.92	0.25	2,000/100
	1/4"	BF-M6/1	0.19	0.47	0.41	0.24	1.04	0.25	2,000/100
	1/4"	BF-M6/2*♦	0.19	0.33	0.21	0.17	0.77	0.25	2,500/100
	17/64"	BF-M7	0.19	0.39	0.31	0.20	0.90	0.28	2,000/100
	5/16"	BF-M8	0.19	0.47	0.41	0.24	1.04	0.33	1,500/100
	3/8"	BF-M10	0.19	0.61	0.51	0.30	1.21	0.41	1,500/100
	1/2"	BF-M12	0.19	0.71	0.61	0.35	1.36	0.51	1,000/100
12÷10 (4÷6)	#4	GF-M3	0.26	0.31	0.32	0.16	1.03	0.13	1,000/100
	#6	GF-M3.5	0.26	0.31	0.32	0.16	1.03	0.15	1,000/100
	#8	GF-M4	0.26	0.35	0.32	0.18	1.05	0.17	1,000/100
	#10	GF-M5	0.26	0.35	0.32	0.18	1.05	0.21	1,000/100
	1/4"	GF-M6	0.26	0.43	0.44	0.22	1.21	0.25	1,000/100
	1/4"	GF-M6/1	0.26	0.43	0.32	0.22	1.09	0.25	1,000/100
	17/64"	GF-M7	0.26	0.43	0.44	0.22	1.21	0.28	1,000/100
	5/16"	GF-M8	0.26	0.54	0.48	0.27	1.30	0.33	800/100
	5/16"	GF-M8/1*♦	0.26	0.43	0.32	0.22	1.09	0.33	1,000/100
	3/8"	GF-M10	0.26	0.54	0.48	0.27	1.30	0.41	800/100
	3/8"	GF-M10/1	0.26	0.61	0.54	0.3	1.41	0.41	800/100
	1/2"	GF-M12	0.26	0.75	0.59	0.37	1.52	0.51	500/100
	9/16"	GF-M14	0.26	0.83	0.63	0.41	1.60	0.59	500/100
	5/8"	GF-M16	0.26	0.94	0.67	0.47	1.70	0.67	500/100

Cond. Size AWG (sqmm)	Ø Stud in.	Type	Dimensions in. Ø	B	M	N	L	d	Quantity Box/Bag
22÷16 (0.25÷1.5)	#4	RF-U3	0.16	0.22	0.22	0.16	0.77	0.13	3,000/100
	#6	RF-U3.5	0.16	0.24	0.26	0.15	0.80	0.15	3,000/100
	#6	RF-U3.5/1	0.16	0.28	0.26	0.15	0.80	0.15	3,000/100
	#6	RF-U3.5/2♦	0.16	0.25	0.26	0.15	0.80	0.15	3,000/100
	#8	RF-U4	0.16	0.26	0.30	0.15	0.83	0.17	3,000/100
	#8	RF-U4/1	0.16	0.33	0.30	0.15	0.83	0.17	3,000/100
	#8	RF-U4/2	0.16	0.30	0.30	0.15	0.83	0.17	3,000/100
	#10	RF-U5	0.16	0.33	0.30	0.15	0.83	0.21	2,500/100
	#10	RF-U5/1*♦	0.16	0.37	0.30	0.15	0.83	0.21	3,000/100
	1/4"	RF-U6	0.16	0.37	0.32	0.19	0.90	0.25	2,000/100
	1/4"	RF-U6/1	0.16	0.47	0.36	0.28	1.04	0.25	2,000/100
	5/16"	RF-U8	0.16	0.55	0.39	0.25	1.04	0.33	2,000/100
	3/8"	RF-U10	0.16	0.69	0.51	0.30	1.21	0.41	1,500/100
	1/2"	RF-U12	0.16	0.79	0.61	0.35	1.36	0.51	1,500/100
16÷14 (1.5÷2.5)	#4	BF-U3	0.19	0.22	0.22	0.16	0.77	0.13	2,500/100
	#6	BF-U3.5	0.19	0.25	0.26	0.15	0.80	0.15	2,500/100
	#6	BF-U3.5/1*	0.19	0.28	0.26	0.15	0.80	0.15	3,000/100
	#8	BF-U4	0.19	0.26	0.30	0.15	0.83	0.17	2,500/100
	#8	BF-U4/1	0.19	0.33	0.30	0.15	0.83	0.17	2,000/100
	#8	BF-U4/2	0.19	0.30	0.30	0.15	0.83	0.17	2,000/100
	#10	BF-U5	0.19	0.33	0.30	0.15	0.83	0.21	2,000/100
	#10	BF-U5/2♦	0.19	0.47	0.44	0.20	1.04	0.21	1,500/100
	1/4"	BF-U6	0.19	0.37	0.32	0.19	0.90	0.25	2,000/100
	1/4"	BF-U6/1	0.19	0.47	0.36	0.28	1.04	0.25	2,000/100
	5/16"	BF-U8	0.19	0.55	0.39	0.25	1.04	0.33	1,500/100
	3/8"	BF-U10	0.19	0.69	0.51	0.30	1.21	0.41	1,000/100
	1/2"	BF-U12	0.19	0.79	0.61	0.35	1.36	0.51	1,000/100
12÷10 (4÷6)	#6	GF-U3.5	0.26	0.30	0.33	0.15	1.04	0.15	1,000/100
	#8	GF-U4	0.26	0.30	0.31	0.17	1.04	0.17	1,000/100
	#10	GF-U5	0.26	0.37	0.31	0.17	1.04	0.21	1,000/100
	1/4"	GF-U6	0.26	0.39	0.43	0.22	1.20	0.25	1,000/100
	5/16"	GF-U8	0.26	0.53	0.47	0.31	1.34	0.33	1,000/100
	3/8"	GF-U10	0.26	0.61	0.51	0.31	1.38	0.41	1,000/100
	3/8"	GF-U10/1	0.26	0.69	0.54	0.3	1.41	0.41	1,000/100
	1/2"	GF-U12	0.26	0.83	0.59	0.37	1.52	0.51	500/100
	9/16"	GF-U14	0.26	0.91	0.63	0.41	1.60	0.59	500/100
	5/8"	GF-U16	0.26	1.02	0.67	0.45	1.68	0.67	500/100

♦*Not UL approved* **Made to order*

CEMBRE

RF-F BF-F GF-F

PC | Brass | EASY ENTRY | 3µm TIN PLATED | -4°F +239°F | RADIAL

* Material: Polycarbonate type PC10500AC certified EN45545-2

FEMALE DISCONNECT TERMINALS

for Copper conductors

Recommended crimping tools are shown on pages 136 to 163, 242.

EN 45545-2 | HF HALOGEN FREE | c UL us File no. E212000

Polycarbonate* insulated terminals partially reinforced with Copper sleeve

Cond. Size AWG (sqmm)	Type	Tab Size in.	Quantity Box/Bag
22÷16 (0.25÷1.5)	RF-F305	0.11x0.02	3,000/100
	RF-F308♦	0.11x0.03	3,000/100
	RF-F405	0.19x0.02	2,500/100
	RF-F408	0.19x0.03	2,500/100
	RF-F608	0.25x0.03	2,500/100
16÷14 (1.5÷2.5)	BF-F405	0.19x0.02	2,500/100
	BF-F408	0.19x0.03	2,500/100
	BF-F608	0.25x0.03	1,500/100
12÷10 (4÷6)	GF-F608	0.25x0.03	1,000/100

Polycarbonate* fully insulated terminals partially reinforced with Copper sleeve

Cond. Size AWG (sqmm)	Type	Tab Size in.	Quantity Box/Bag
22÷16 (0.25÷1.5)	RF-F305P	0.11x0.02	2,000/100
	RF-F308P♦	0.11x0.03	2,000/100
	RF-F405P	0.19x0.02	1,500/100
	RF-F408P	0.19x0.03	1,500/100
	RF-F608P	0.25x0.03	1,000/100
16÷14 (1.5÷2.5)	BF-F405P	0.19x0.02	1,500/100
	BF-F408P	0.19x0.03	1,500/100
	BF-F608P	0.25x0.03	1,000/100
12÷10 (4÷6)	GF-F608P	0.25x0.03	800/100

RF-M BF-M GF-M

PC | Brass | EASY ENTRY | 3µm TIN PLATED | -4°F +239°F | RADIAL

* Material: Polycarbonate type PC10500AC certified EN45545-2

MALE DISCONNECT TERMINALS

for Copper conductors

Recommended crimping tools are shown on pages 136 to 163, 242.

EN 45545-2 | HF HALOGEN FREE | c UL us File no. E212000

Polycarbonate* insulated terminals partially reinforced with Copper sleeve

Cond. Size AWG (sqmm)	Type	Tab Size in.	Quantity Box/Bag
22÷16 (0.25÷1.5)	RF-M608	0.25x0.03	3,000/100
16÷14 (1.5÷2.5)	BF-M608	0.25x0.03	2,000/100
12÷10 (4÷6)	GF-M608	0.25x0.03	1,000/100

Polycarbonate* fully insulated terminals partially reinforced with Copper sleeve

Cond. Size AWG (sqmm)	Type	Tab Size in.	Quantity Box/Bag
22÷16 (0.25÷1.5)	RF-M608P	0.25x0.03	1,000/100
16÷14 (1.5÷2.5)	BF-M608P	0.25x0.03	800/100

RF-FM BF-FM RF-B BF-B

PC | Brass | EASY ENTRY | 3µm TIN PLATED | -4°F +239°F | RADIAL

* Material: Polycarbonate type PC10500AC certified EN45545-2

MALE/FEMALE

for Copper conductors

Recommended crimping tools are shown on pages 136 to 163, 242.

Polycarbonate* insulated terminals partially reinforced with Copper sleeve

Cond. Size AWG (sqmm)	Type	Tab Size in.	Quantity Box/Bag
22÷16 (0.25÷1.5)	RF-FM608	0.25x0.03	1,000/100
16÷14 (1.5÷2.5)	BF-FM608	0.25x0.03	1,000/100

BULLET AND SOCKET

for Copper conductors

EN 45545-2 | HF HALOGEN FREE | c UL us File no. E212000

Polycarbonate* insulated terminals partially reinforced with Copper sleeve

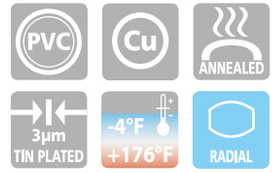
Cond. Size AWG (sqmm)	Type	Ø in.	Quantity Box/Bag
22÷16 (0.25÷1.5)	RF-BM4♦	0.16	2,500/100
	RF-BF4♦	0.16	800/100
16÷14 (1.5÷2.5)	BF-BM5♦	0.20	2,000/100
	BF-BF5♦	0.20	800/100

♦*Not UL approved*

BUTT AND PARALLEL CONNECTORS

for Copper conductors

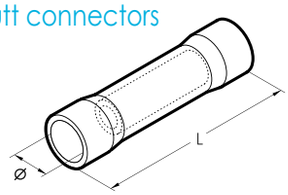
PL



File no. E125401

PVC insulated

butt connectors



parallel connectors

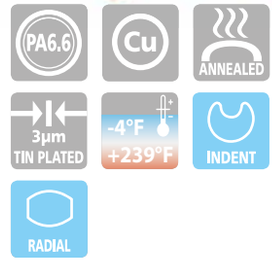
Recommended crimping tools are shown on pages 136 to 163, 242.

Cond. Size AWG (sqmm)	Type	Ø in.	L in.	Quantity Box/Bag
24÷20 (0.2÷0.5)	PL01-M♦	0.12	0.98	3,000/100
22÷16 (0.25÷1.5)	PL03-M	0.16	0.98	1,000/100
16÷14 (1.5÷2.5)	PL06-M	0.20	0.98	1,500/100
12÷10 (4÷6)	PL1-M	0.26	1.26	500/100
22÷16 (0.25÷1.5)	PL03-P♦	0.16	0.79	3,000/100
16÷14 (1.5÷2.5)	PL06-P♦	0.20	0.63	2,000/100

BUTT CONNECTORS

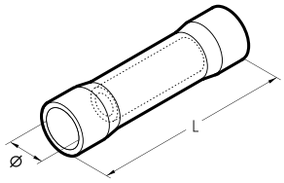
for Copper conductors

NL-M



Polyamide PA6.6 insulated

Recommended crimping tools are shown on pages 136 to 163, 242.



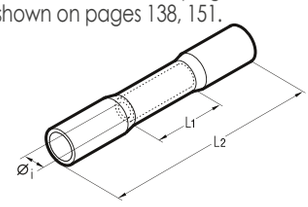
Cond. Size AWG (sqmm)	Type	Ø in.	L in.	Quantity Box/Bag
22÷16 (0.25÷1.5)	NL03-M	0.16	0.98	1,000/100
16÷14 (1.5÷2.5)	NL06-M	0.21	1.00	1,500/100
12÷10 (4÷6)	NL1-M	0.30	1.26	500/100
8÷7 (10)	NL2-M	0.31	1.69	500/100
6÷5 (16)	NL3-M	0.36	1.73	400/100

HF HALOGEN FREE

WL-M

PE HD insulated, heat shrinkable

Recommended crimping tools are shown on pages 138, 151.



Cond. Size AWG (sqmm)	Type	Ø in.	L 1 in.	L 2 in.	Quantity Box/Bag
20÷16 (0.5÷1.5)	WL03-M	0.07	0.59	1.42	1,500/100
16÷14 (1.5÷2.5)	WL06-M	0.09	0.59	1.42	1,000/100
12÷10 (4÷6)	WL1-M	0.14	0.59	1.61	500/100

- Max operating voltage: 600 V
- Shrink temperature: 302 °F
- Protection: IP68

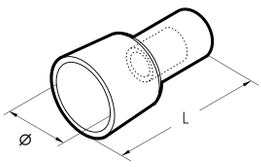
CLOSE END CONNECTORS

for Copper conductors

NL-P

Polyamide PA6.6 insulated

Recommended crimping tools are shown on pages 136 to 163, 242.



Cond. Size AWG (sqmm)	Type	Ø in.	L in.	Quantity Box/Bag
22÷16 (0.25÷1.5)	NL03-P	0.31	0.83	1,000/100
16÷14 (1.5÷2.5)	NL06-P	0.31	0.78	1,000/100
	NL06-PB	0.26	0.54	1,500/100
12÷10 (4÷6)	NL1-P	0.41	0.85	500/100
	NL1-PG	0.35	0.70	1,000/100

♦Not UL approved

CEMBRE

VP RP
BP GP

HALOGEN FREE INSULATED TERMINALS

P range funnel entry - for Copper conductors

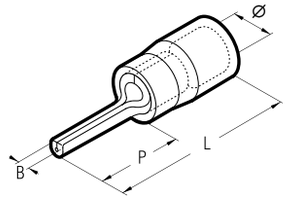
PC | Cu-ETP | EASY ENTRY | ANNEALED | 3µm TIN PLATED | -4°F +239°F | RADIAL

The "P" range of terminals has been designed, to meet the increasing demands for improved safety and reliability of electrical connectors. Electrical connectors are produced using electrolytic Copper with a purity greater than 99.9%. The Polycarbonate insulation type PC10500AC certified EN45545-2, is a Halogen free, self extinguishing thermoplastic material class V0 (UL 94).

The unique funnel shaped entry of the insulation sleeve, guarantees total insertion of the conductor strands into the terminal barrel, creating a secure and reliable, electrical and mechanical connection.
The operating temperature range is – 4 to + 239°F (Surge + 266°F).
Recommended crimping tools are shown on pages 136 to 163, 242.

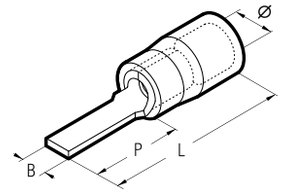
EN 45545-2 | HF HALOGEN FREE | c UL us File no. E125401

pin terminals



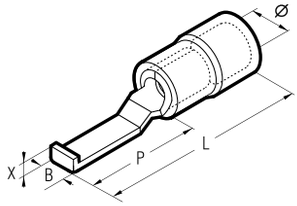
Conductor Size AWG (sqmm)	Type	Dimensions in. Ø	B	P	L	Quantity Box/Bag
24÷20 (0.2÷0.5)	VP-P10	0.12	0.04	0.39	0.79	4,000/100
22÷16 (0.25÷1.5)	RP-P8	0.16	0.06	0.31	0.70	3,000/100
	RP-P10	0.16	0.06	0.39	0.78	3,000/100
	RP-P12	0.16	0.06	0.47	0.87	3,000/100
16÷14 (1.5÷2.5)	BP-P8	0.19	0.06	0.31	0.70	3,000/100
	BP-P10	0.19	0.06	0.39	0.78	3,000/100
	BP-P12	0.19	0.06	0.46	0.86	2,500/100
12÷10 (4÷6)	GP-P10	0.26	0.09	0.41	0.96	1,000/100
	GP-P12	0.26	0.09	0.50	1.05	1,000/100
	GP-P14	0.26	0.09	0.57	1.13	1,000/100

blade terminals



Conductor Size AWG (sqmm)	Type	Dimensions in. Ø	B	P	L	Quantity Box/Bag
24÷20 (0.2÷0.5)	VP-PP12/19	0.12	0.07	0.49	0.88	4,000/100
22÷16 (0.25÷1.5)	RP-PP12	0.16	0.12	0.50	0.90	3,000/100
	RP-PP12/1	0.16	0.12	0.44	0.84	3,000/100
	RP-PP12/19	0.16	0.07	0.52	0.92	3,000/100
	RP-PP12/23	0.16	0.09	0.52	0.92	2,500/100
	RP-PP14	0.16	0.12	0.58	0.98	2,500/100
	RP-PP16/23	0.16	0.09	0.68	1.07	2,500/100
16÷14 (1.5÷2.5)	BP-PP12	0.19	0.14	0.50	0.90	2,500/100
	BP-PP12/25	0.19	0.10	0.52	0.92	2,000/100
	BP-PP12/29	0.19	0.11	0.52	0.92	2,500/100
	BP-PP16/25	0.19	0.10	0.68	1.07	2,500/100
12÷10 (4÷6)	GP-PP12	0.26	0.16	0.52	1.08	1,000/100
	GP-PP17	0.26	0.11	0.75	1.31	1,000/100

hooked blade terminals



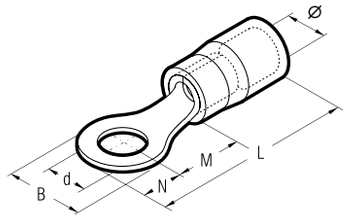
Conductor Size AWG (sqmm)	Type	Dimensions in. Ø	B	P	L	X	Quantity Box/Bag
22÷16 (0.25÷1.5)	RP-PPL30	0.15	0.12	0.69	1.11	0.07	3,000/100
	RP-PPL46	0.15	0.18	0.69	1.11	0.07	3,000/100
16÷14 (1.5÷2.5)	BP-PPL30	0.19	0.12	0.69	1.11	0.07	2,500/100
	BP-PPL46	0.19	0.18	0.69	1.13	0.07	2,500/100
12÷10 (4÷6)	GP-PPL46	0.26	0.18	0.69	1.28	0.07	1,000/100

HALOGEN FREE INSULATED TERMINALS

P range funnel entry - for Copper conductors

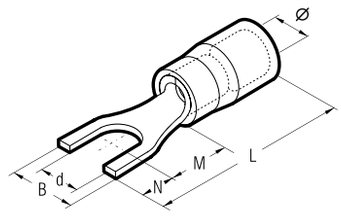
VP RP BP GP

ring terminals



Cond. Size AWG (sqmm)	Ø Stud in.	Type	Dimensions in. Ø	B	M	N	L	d	Quantity Box/Bag
24÷20 (0.2÷0.5)	#3	VP-M2*	0.12	0.22	0.18	0.11	0.69	0.09	4,000/100
	#4	VP-M3	0.12	0.22	0.18	0.11	0.69	0.13	4,000/100
	#6	VP-M3.5	0.12	0.22	0.18	0.11	0.,69	0.15	4,000/100
	#8	VP-M4	0.12	0.28	0.26	0.14	0.80	0.17	4,000/100
	#10	VP-M5	0.12	0.31	0.28	0.15	0.83	0.21	4,000/100
	1/4"	VP-M6*	0.12	0.37	0.32	0.19	0.91	0.25	4,000/100
22÷16 (0.25÷1.5)	#3	RP-M2*	0.16	0.22	0.18	0.11	0.69	0.09	3,000/100
	#4	RP-M3	0.16	0.22	0.18	0.11	0.69	0.13	3,000/100
	#6	RP-M3.5	0.16	0.22	0.18	0.11	0.69	0.15	3,000/100
	#6	RP-M3.5/1	0.16	0.24	0.28	0.12	0.80	0.15	3,000/100
	#8	RP-M4	0.16	0.28	0.26	0.14	0.79	0.17	3,000/100
	#8	RP-M4/3	0.16	0.31	0.28	0.15	0.83	0.17	3,000/100
	#10	RP-M5	0.16	0.31	0.28	0.15	0.83	0.21	2,500/100
	1/4"	RP-M6	0.16	0.37	0.32	0.19	0.90	0.25	2,500/100
	1/4"	RP-M6/1	0.16	0.47	0.41	0.24	1.04	0.25	2,000/100
	17/64"	RP-M7	0.16	0.37	0.32	0.19	0.90	0.28	2,500/100
	5/16"	RP-M8	0.16	0.47	0.41	0.24	1.04	0.33	2,500/100
	3/8"	RP-M10	0.16	0.61	0.51	0.30	1.22	0.41	1,500/100
	1/2"	RP-M12	0.16	0.71	0.61	0.35	1.36	0.51	1,500/100
16÷14 (1.5÷2.5)	#3	BP-M2*	0.19	0.22	0.20	0.11	0.70	0.09	2,500/100
	#4	BP-M3	0.19	0.22	0.20	0.11	0.70	0.13	2,500/100
	#6	BP-M3.5	0.19	0.22	0.20	0.11	0.70	0.15	3,000/100
	#6	BP-M3.5/1	0.19	0.24	0.26	0.12	0.78	0.15	2,500/100
	#8	BP-M4	0.19	0.31	0.26	0.16	0.81	0.17	2,500/100
	#10	BP-M5	0.19	0.31	0.30	0.16	0.85	0.,21	2,000/100
	1/4"	BP-M6	0.19	0.37	0.34	0.19	0.92	0.25	2,000/100
	1/4"	BP-M6/1	0.19	0.47	0.24	1.04	0.25	0.25	2,000/100
	1/4"	BP-M6/2*	0.19	0.33	0.21	0.17	0.78	0.25	2,500/100
	17/64"	BP-M7	0.19	0.39	0.31	0.20	0.90	0.28	2,500/100
	5/16"	BP-M8	0.19	0.47	0.41	0.24	1.04	0.33	1,500/100
	3/8"	BP-M10	0.19	0.61	0.51	0.30	1.22	0.41	1,500/100
	1/2"	BP-M12	0.19	0.71	0.61	0.35	1.36	0.51	1,000/100
12÷10 (4÷6)	#4	GP-M3	0.26	0.31	0.32	0.16	1.03	0.13	1,000/100
	#6	GP-M3.5	0.26	0.31	0.32	0.16	1.03	0.15	1,500/100
	#8	GP-M4	0.26	0.35	0.32	0.18	1.05	0.17	1,000/100
	#10	GP-M5	0.26	0.35	0.32	0.18	1.05	0.21	1,000/100
	1/4"	GP-M6	0.26	0.43	0.44	0.22	1.21	0.25	1,000/100
	1/4"	GP-M6/1	0.26	0.43	0.32	0.22	1.09	0.25	1,000/100
	17/64"	GP-M7	0.26	0.43	0.44	0.22	1.21	0.28	1,000/100
	5/16"	GP-M8	0.26	0.54	0.48	0.27	1.30	0.33	800/100
	5/16"	GP-M8/1*	0.26	0.43	0.32	0.22	1.09	0.33	1,000/100
	3/8"	GP-M10	0.26	0.54	0.48	0.27	1.30	0.41	1,000/100
	3/8"	GP-M10/1	0.26	0.61	0.54	0.30	1.41	0.41	1,000/100
	1/2"	GP-M12	0.26	0.75	0.59	0.37	1.52	0.51	500/100
	9/16"	GP-M14	0.26	0.83	0.63	0.41	1.60	0.59	500/100
	5/8"	GP-M16	0.26	0.94	0.67	0.47	1.70	0.67	500/100

fork/spade terminals



Cond. Size AWG (sqmm)	Ø Stud in.	Type	Dimensions in. Ø	B	M	N	L	d	Quantity Box/Bag
24÷20 (0.2÷0.5)	#4	VP-U3	0.12	0.22	0.22	0.16	0.74	0.13	4,000/100
	#6	VP-U3.5	0.12	0.24	0.26	0.15	0.77	0.15	4,000/100
	#8	VP-U4	0.12	0.26	0.30	0.15	0.80	0.17	4,000/100
22÷16 (0.25÷1.5)	#4	RP-U3	0.16	0.22	0.22	0.16	0.77	0.13	3,000/100
	#6	RP-U3.5	0.16	0.24	0.26	0.15	0.80	0.15	3,000/100
	#6	RP-U3.5/2	0.16	0.25	0.26	0.15	0.80	0.15	3,000/100
	#8	RP-U4	0.16	0.26	0.30	0.15	0.84	0.17	3,000/100
	#8	RP-U4/1	0.16	0.33	0.30	0.15	0.84	0.17	3,000/100
	#8	RP-U4/2	0.16	0.30	0.30	0.15	0.84	0.17	3,500/100
	#10	RP-U5	0.16	0.33	0.30	0.15	0.84	0.21	3,000/100
	#10	RP-U5/1*	0.16	0.37	0.30	0.15	0.84	0.21	3,000/100
	1/4"	RP-U6	0.16	0.37	0.32	0.19	0.90	0.25	2,000/100
	1/4"	RP-U6/1	0.16	0.47	0.36	0.28	1.04	0.25	2,000/100
	5/16"	RP-U8	0.16	0.55	0.39	0.25	1.04	0.33	2,000/100
	3/8"	RP-U10	0.16	0.69	0.51	0.30	1.22	0.41	1,500/100
	1/2"	RP-U12	0.16	0.79	0.61	0.35	1.36	0.51	1,500/100
16÷14 (1.5÷2.5)	#4	BP-U3	0.19	0.22	0.22	0.16	0.77	0.13	2,500/100
	#6	BP-U3.5	0.19	0.25	0.26	0.25	0.80	0.15	2,500/100
	#6	BP-U3.5/1*	0.19	0.28	0.26	0.15	0.80	0.15	2,500/100
	#8	BP-U4	0.19	0.26	0.30	0.15	0.84	0.17	2,500/100
	#8	BP-U4/1	0.19	0.33	0.30	0.15	0.84	0.17	3,000/100
	#8	BP-U4/2	0.19	0.30	0.30	0.15	0.84	0.17	2,000/100
	#10	BP-U5	0.19	0.33	0.30	0.15	0.84	0.21	2,000/100
	1/4"	BP-U6	0.19	0.37	0.32	0.19	0.90	0.25	2,000/100
	1/4"	BP-U6/1	0.19	0.47	0.36	0.28	1.04	0.25	2,000/100
	5/16"	BP-U8	0.19	0.55	0.39	0.25	1.04	0.33	1,500/100
	3/8"	BP-U10	0.19	0.69	0.51	0.30	1.22	0.41	1,000/100
	1/2"	BP-U12	0.19	0.79	0.61	0.35	1.36	0.51	1,500/100
12÷10 (4÷6)	#6	GP-U3.5	0.26	0.30	0.33	0.15	1.04	0.15	1,000/100
	#8	GP-U4	0.26	0.30	0.31	0.17	1.04	0.17	1,000/100
	#10	GP-U5	0.26	0.37	0.31	0.17	1.04	0.21	1,000/100
	1/4"	GP-U6	0.26	0.39	0.43	0.22	1.20	0.25	1,000/100
	5/16"	GP-U8	0.26	0.53	0.47	0.31	1.34	0.33	1,000/100
	3/8"	GP-U10	0.26	0.61	0.51	0.31	1.38	0.41	1,000/100
	3/8"	GP-U10/1	0.26	0.69	0.54	0.30	1.41	0.41	1,000/100
	1/2"	GP-U12	0.26	0.83	0.59	0.37	1.52	0.51	500/100
	9/16"	GP-U14	0.26	0.91	0.63	0.41	1.60	0.59	500/100
	5/8"	GP-U16	0.26	1.02	0.67	0.45	1.68	0.67	500/100

*Made to order

CEMBRE

RKY BKY GKY

REINFORCED PA 6.6 INSULATED TERMINALS

KY range - for Copper conductors

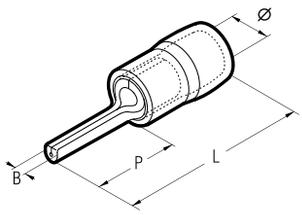
PA6.6 | Cu-ETP | EASY ENTRY | ANNEALED | 3µm TIN PLATED | -4°F +221°F | RADIAL

'KY' type terminals are designed to offer improved mechanical and electrical integrity under heavy-duty application.
This is achieved via a Copper sleeve located between the Copper barrel and Polyamide insulation of the terminal. Then, during crimping, the insulation of the conductor is integrated into the crimp due to the Copper sleeve being deformed around it to maintain the level of 'grip' required in applications subject to continuous mechanical vibrations (e.g: mobile plant, vehicles, moving components).

Electrical connectors are produced using electrolytic Copper with a purity greater than 99.9% .
The operating temperature range is – 4 to + 221°F (Surge + 230°F).
Recommended crimping tools are shown on pages 136 to 163, 242.

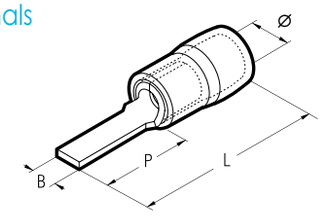
HF HALOGEN FREE

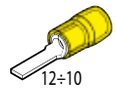
pin terminals



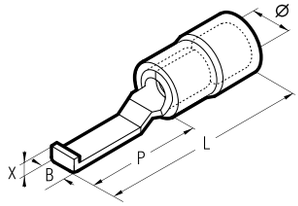
Conductor Size AWG (sqmm)	Type	Dimensions in. Ø	B	P	L	Quantity Box/Bag
22÷16 (0.25÷1.5)	RKY-P8	0.18	0.07	0.35	0.78	3,000/100
	RKY-P10	0.18	0.07	0.39	0.82	3,500/100
	RKY-P12	0.18	0.07	0.47	0.90	3,000/100
16÷14 (1.5÷2.5)	BKY-P8	0.20	0.07	0.39	0.82	3,000/100
	BKY-P10	0.20	0.07	0.35	0.78	3,000/100
	BKY-P12	0.20	0.07	0.47	0.90	3,000/100
12÷10 (4÷6)	GKY-P14	0.28	0.11	0.55	1.06	1,000/100

blade terminals



Conductor Size AWG (sqmm)	Type	Dimensions in. Ø	B	P	L	Quantity Box/Bag
22÷16 (0.25÷1.5)	RKY-PP12	0.18	0.12	0.51	0.94	3,000/100
	RKY-PP12/19	0.18	0.09	0.71	1.13	3,000/100
	RKY-PP16/23	0.18	0.08	0.71	1.13	2,500/100
16÷14 (1.5÷2.5)	BKY-PP12	0.20	0.12	0.51	0.94	2,500/100
	BKY-PP12/25	0.20	0.09	0.51	0.94	2,000/100
	BKY-PP16/23	0.20	0.09	0.71	1.13	2,500/100
 12÷10 (4÷6)	GKY-PP12	0.28	0.16	0.55	1.06	1,000/100
	GKY-PP17	0.28	0.08	0.71	1.22	1,000/100

hooked blade terminals



Conductor Size AWG (sqmm)	Type	Dimensions in. Ø	B	P	L	X	Quantity Box/Bag
22÷16 (0.25÷1.5)	RKY-PPL30	0.18	0.12	0.66	1.11	0.08	3,000/100
	RKY-PPL46	0.18	0.18	0.66	1.11	0.08	3,000/100
16÷14 (1.5÷2.5)	BKY-PPL30	0.20	0.12	0.66	1.11	0.08	2,500/100
	BKY-PPL46	0.20	0.18	0.66	1.11	0.08	2,500/100
12÷10 (4÷6)	GKY-PPL46	0.28	0.18	0.68	1.19	0.09	1,000/100

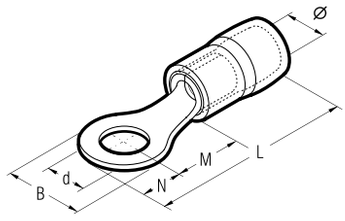
Consult Cembre for a wider range of pin and blade dimensions.

REINFORCED PA 6.6 INSULATED TERMINALS

KY range - for Copper conductors

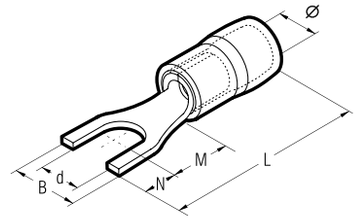
RKY BKY GKY

ring terminals



Cond. Size AWG (sqmm)	Ø Stud in.	Type	Dimensions in. Ø	B	M	N	L	d	Quantity Box/Bag
22÷16 (0.25÷1.5)	#4	RKY-M3	0.18	0.22	0.20	0.10	0.73	0.13	3,000/100
	#6	RKY-M3.5	0.18	0.22	0.20	0.10	0.73	0.15	3,000/100
	#6	RKY-M3.5/1	0.18	0.26	0.25	0.12	0.80	0.15	3,000/100
	#8	RKY-M4	0.18	0.26	0.25	0.12	0.80	0.17	3,000/100
	#10	RKY-M5	0.18	0.31	0.28	0.15	0.86	0.21	2,500/100
	1/4"	RKY-M6/1	0.18	0.46	0.43	0.23	1.09	0.25	2,000/100
	5/16"	RKY-M8	0.18	0.46	0.43	0.23	1.09	0.33	2,500/100
	3/8"	RKY-M10	0.18	0.54	0.55	0.26	1.24	0.41	1,500/100
	1/2"	RKY-M12	0.18	0.77	0.63	0.37	1.43	0.51	1,500/100
16÷14 (1.5÷2.5)	#4	BKY-M3	0.20	0.26	0.19	0.12	0.74	0.13	2,500/100
	#6	BKY-M3.5	0.20	0.26	0.19	0.12	0.74	0.15	2,500/100
	#6	BKY-M3.5/1	0.20	0.26	0.25	0.12	0.80	0.15	2,500/100
	#8	BKY-M4	0.20	0.33	0.31	0.16	0.90	0.17	2,500/100
	#10	BKY-M5	0.20	0.33	0.31	0.16	0.90	0.21	2,500/100
	1/4"	BKY-M6/1	0.20	0.47	0.43	0.23	1.09	0.25	2,000/100
	5/16"	BKY-M8	0.20	0.47	0.43	0.23	1.09	0.33	1,500/100
	3/8"	BKY-M10	0.20	0.54	0.55	0.26	1.24	0.41	1,500/100
	1/2"	BKY-M12	0.20	0.76	0.63	0.37	1.43	0.51	1,000/100
12÷10 (4÷6)	#6	GKY-M3.5	0.28	0.28	0.24	0.14	0.89	0.15	1,000/100
	#8	GKY-M4	0.28	0.37	0.36	0.18	1.05	0.17	1,000/100
	#10	GKY-M5	0.28	0.37	0.36	0.18	1.05	0.21	1,000/100
	1/4"	GKY-M6	0.28	0.47	0.41	0.24	1.16	0.25	1,000/100
	5/16"	GKY-M8	0.28	0.59	0.53	0.30	1.34	0.33	1,000/100
	3/8"	GKY-M10	0.28	0.59	0.53	0.30	1.34	0.41	1,000/100
	1/2"	GKY-M12	0.28	0.76	0.63	0.38	1.52	0.51	1,000/100
	9/16"	GKY-M14	0.28	1.26	0.99	0.63	2.13	0.59	500/100
	5/8"	GKY-M16	0.28	1.26	0.99	0.63	2.13	0.67	500/100

fork/spade terminals



Cond. Size AWG (sqmm)	Ø Stud in.	Type	Dimensions in. Ø	B	M	N	L	d	Quantity Box/Bag
22÷16 (0.25÷1.5)	#4	RKY-U3	0.18	0.22	0.26	0.18	0.87	0.13	2,500/100
	#6	RKY-U3.5	0.18	0.22	0.26	0.18	0.87	0.15	2,500/100
	#8	RKY-U4	0.18	0.25	0.26	0.18	0.87	0.17	3,000/100
	#10	RKY-U5	0.18	0.32	0.26	0.18	0.87	0.21	3,000/100
	1/4"	RKY-U6	0.18	0.37	0.26	0.18	0.87	0.25	2,000/100
	1/4"	RKY-U6/1	0.18	0.47	0.43	0.24	1.10	0.25	2,000/100
16÷14 (1.5÷2.5)	#4	BKY-U3	0.20	0.22	0.26	0.18	0.87	0.13	2,500/100
	#6	BKY-U3.5	0.20	0.24	0.26	0.18	0.87	0.15	2,500/100
	#8	BKY-U4	0.20	0.25	0.26	0.18	0.87	0.17	2,500/100
	#10	BKY-U5	0.20	0.31	0.26	0.18	0.87	0.21	2,000/100
	1/4"	BKY-U6	0.20	0.37	0.26	0.18	0.87	0.25	2,000/100
	1/4"	BKY-U6/1	0.20	0.47	0.43	0.24	1.10	0.25	2,000/100
12÷10 (4÷6)	#6	GKY-U3.5	0.28	0.28	0.30	0.15	0.96	0.15	1,000/100
	#8	GKY-U4	0.28	0.28	0.30	0.15	0.96	0.17	1,000/100
	#10	GKY-U5	0.28	0.35	0.28	0.22	1.00	0.21	1,000/100
	1/4"	GKY-U6	0.28	0.47	0.47	0.26	1.24	0.25	1,000/100
	5/16"	GKY-U8	0.28	0.55	0.41	0.28	1.20	0.33	1,000/100

Consult Cembre for a wider range of pin and blade dimensions.

CEMBRE

RKF-F
BKF-F GK-F

PA6.6 | Brass | EASY ENTRY | 3µm TIN PLATED | -4°F +221°F | RADIAL

Recommended crimping tools are shown on pages 136 to 163, 242.

REINFORCED DISCONNECT TERMINALS

for Copper conductors

HF HALOGEN FREE

female connectors, fully reinforced with Copper sleeve

PA6.6 insulated terminals

Conductor Size AWG (sqmm)	Type	Tab Size in.	Quantity Box/Bag
22÷16 (0.25÷1.5)	RKF-F305	0.11 x 0.02	3,000/100
	RKF-F308	0.11 x 0.03	3,000/100
	RKF-F405	0.19 x 0.02	2,500/100
	RKF-F408	0.19 x 0.03	2,500/100
	RKF-F608	0.25 x 0.03	2,500/100
16÷14 (1.5÷2.5)	BKF-F405	0.19 x 0.02	2,500/100
	BKF-F408	0.19 x 0.03	2,500/100
	BKF-F608	0.25 x 0.03	2,000/100
12÷10 (4÷6)	GK-F608	0.25 x 0.03	1,500/100

PA6.6 fully insulated terminals

Conductor Size AWG (sqmm)	Type	Tab Size in.	Quantity Box/Bag
22÷16 (0.25÷1.5)	RKF-F405P	0.19 x 0.02	1,500/100
	RKF-F408P	0.19 x 0.03	2,000/100
	RKF-F608P	0.25 x 0.03	1,000/100
16÷14 (1.5÷2.5)	BKF-F405P	0.19 x 0.02	1,500/100
	BKF-F408P	0.19 x 0.03	2,000/100
	BKF-F608P	0.25 x 0.03	1,000/100
12÷10 (4÷6)	GK-F608P	0.25 x 0.03	1,000/100

RKF BKF GKF

PA6.6 | Brass | EASY ENTRY | 3µm TIN PLATED | -4°F +221°F | RADIAL

Recommended crimping tools are shown on pages 136 to 163, 242.

REINFORCED DISCONNECT TERMINALS

for Copper conductors

HF HALOGEN FREE

male connectors, fully reinforced with Copper sleeve - PA6.6 insulated terminals

Conductor Size AWG (sqmm)	Type	Tab Size in.	Quantity Box/Bag
22÷16 (0.25÷1.5)	RKF-M608	0.25 x 0.03	3,000/100
16÷14 (1.5÷2.5)	BKF-M608	0.25 x 0.03	2,500/100
12÷10 (4÷6)	GKF-M608	0.25 x 0.03	1,000/100

male/female connectors, fully reinforced with Copper sleeve PA6.6 insulated terminals

Conductor Size AWG (sqmm)	Type	Tab Size in.	Quantity Box/Bag
22÷16 (0.25÷1.5)	RKF-FM608	0.25 x 0.03	1,500/100
16÷14 (1.5÷2.5)	BKF-FM608	0.25 x 0.03	1,500/100

bullet and socket connectors fully reinforced with Copper sleeve PA6.6 insulated terminals

Conductor Size AWG (sqmm)	Type	Ø in.	Quantity Box/Bag
22÷16 (0.25÷1.5)	RKF-BM4	0.16	2,500/100
	RKF-BF4	0.15	1,000/100
16÷14 (1.5÷2.5)	BKF-BM4	0.16	2,000/100
	BKF-BF4	0.15	800/100

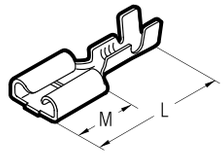
RN-FA
BN-FA

Brass | -40°F +257°F | INDENT

Recommended crimping tools are shown on pages 136 to 163, 242.

FEMALE CONNECTORS

for Copper conductors



Conductor Size AWG (sqmm)	Type	Tab Size in.	M in.	L in.	Quantity Box/Bag
20÷17 (0.5÷1)	RN-FA305	0.11 x 0.02	0.25	0.59	6,000/100
	RN-FA405	0.19 x 0.02	0.25	0.59	5,000/100
	RN-FA608	0.26 x 0.03	0.30	0.75	3,000/100
17÷14 (1÷2.5)	BN-FA608	0.25 x 0.03	0.30	0.75	2,000/100
	BN-FAB608*	0.25 x 0.03	0.30	0.61	2,000/100
	BN-FAR608**	0.25 x 0.03	0.30	0.75	3,000/100

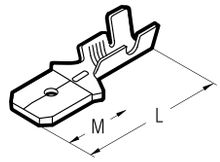
*flag type **with retainer

MALE CONNECTORS

open barrel - for Copper conductors

Conductor Size AWG (sqmm)	Type	Tab Size in.	M in.	L in.	Quantity Box/Bag
0,5÷1 (20÷17)	RN-MA305	0.11 x 0.02	0.23	0.51	*6,000/100*
	RN-MA405	0.19 x 0.02	0.25	0.68	*5,000/100*
	RN-MA608	0.25 x 0.03	0.31	0.78	*4,000/100*
1÷2,5 (17÷14)	BN-MA608	0.25 x 0.03	0.31	0.79	*4,000/100*

Recommended crimping tools are shown on page 142.



RN-MA
BN-MA

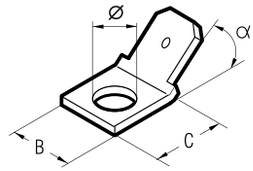
Brass | -40°F +257°F | INDENT

MALE TABS

for board mounting - for Copper conductors

Type	Tab Size in.	Ø Stud in.	B in.	C in.	α	Quantity Box/Bag
MP608	0.25 x 0.03	0.16	0.31	0.43	0°	*5,000/100*
MP608/45	0.25 x 0.03	0.16	0.31	0.33	45°	*6,000/100*
MP608/90	0.25 x 0.03	0.16	0.31	0.33	90°	*5,000/100*
MP608D*	0.25 x 0.03	0.19	0.31	0.55	0°	*5,000/100*

**double tab*

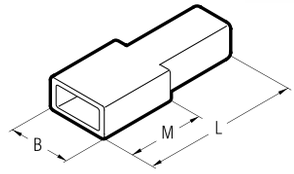


MP
MPD

Brass | -40°F +257°F

CONNECTOR SLEEVES

Type	Connector	B in.	M in.	L in.	Material	Quantity Box/Bag
CFA300	Female 2,8	0.22	0.28	0.71	Polyethylene	*3,000/100*
CFA400*	Female 4,8	0.30	0.35	0.79	Polyethylene	*2,000/100*
CFA600*	Female 6,3	0.35	0.43	0.94	Polyethylene	*1,000/100*
CFA2-600**	Female 6,3	0.35	0.35	0.87	Polyethylene	*1,000/100*
CFAR600	Female 6,3 with retainer	0.35	0.47	0.98	Polyamide 6.6	*500/100*
CFAB600	Female 6,3 flag	0.39	–	0.71	Polyamide 6.6	*500/50*
CMA600*	Male 6,3	0.47	0.43	0.87	Polyethylene	*500/100*



CFA
CMA

*For a single cable.
Colors available:
Transparent: no suffix
Red: add suffix R
Black: add suffix N

**For twin cables.
Colors available:
Transparent: no suffix
Red: add suffix R
Black: add suffix N
Green: add suffix V
Blue: add suffix B
Yellow: add suffix G

CEMBRE

CRP CBP CGP

INSULATED CHAIN TERMINALS

CP range with easy entry - for Copper conductors

The "CP" range of terminals has been designed to meet the increasing demands for improved safety and reliability of electrical connectors. Electrical connectors are produced using electrolytic Copper with a purity greater than 99.9%.

Developed for use with production equipment, to give a quick and reliable crimped joint, the Polycarbonate insulation type PC10500AC certified EN45545-2, is a Halogen free, self extinguishing thermoplastic material class V0 (UL 94).

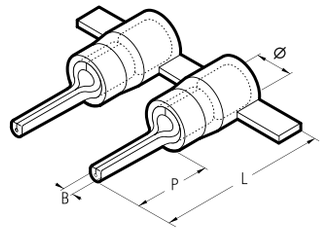
the insulation sleeve guarantees total insertion of the conductor strands into the terminal barrel, creating a secure and reliable, electrical and mechanical connection. The operating temperature range is – 4 to + 239°F (Surge + 266°F).

PC · Cu-ETP · EASY ENTRY · ANNEALED · 3µm TIN PLATED · -4°F +239°F · RADIAL

EN 45545-2 · HF HALOGEN FREE

pin terminals

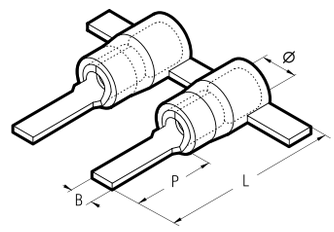
c UL us File no. E125401



Conductor Size AWG (sqmm))	Type	Dimensions in. Ø	B	P	L	Quantity
22÷16 (0.25÷1.5)	CRP-P8	0.16	0.06	0.31	0.70	2,000
	CRP-P10	0.16	0.06	0.39	0.78	2,000
	CRP-P12	0.16	0.06	0.47	0.87	2,000
16÷14 (1.5÷2.5)	CBP-P8	0.19	0.06	0.31	0.70	1,750
	CBP-P10	0.19	0.06	0.39	0.78	1,750
	CBP-P12	0.19	0.06	0.47	0.86	1,750
12÷10 (4÷6)	CGP-P10	0.26	0.09	0.39	0.96	1,250
	CGP-P12	0.26	0.09	0.47	1.05	1,250
	CGP-P14	0.26	0.09	0.55	1.13	1,250

blade terminals

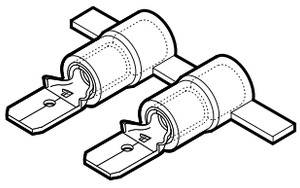
c UL us File no. E125401



Conductor Size AWG (sqmm)	Type	Dimensions in. Ø	B	P	L	Quantity
22÷16 (0.25÷1.5)	CRP-PP12	0.16	0.12	0.50	0.90	2,000
	CRP-PP12/1*	0.16	0.12	0.44	0.84	2,000
	CRP-PP12/23*	0.16	0.09	0.52	0.92	2,000
	CRP-PP14	0.16	0.12	0.58	0.98	2,000
16÷14 (1.5÷2.5)	CBP-PP12	0.19	0.14	0.50	0.90	1,750
	CBP-PP12/25*	0.19	0.10	0.52	0.92	1,750
12÷10 (4÷6)	CGP-PP12	0.26	0.16	0.52	1.08	1,250
	CGP-PP17*	0.26	0.11	0.75	1.31	1,250

male disconnect terminals

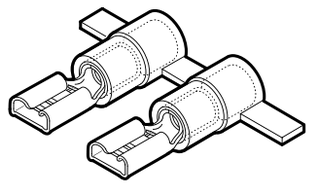
c UL us File no. E212000 · Brass



Conductor Size AWG (sqmm)	Type	Tab Size in.	Quantity
22÷16 (0.25÷1.5)	CRP-M608	0.25 x 0.03	2,000
16÷14 (1.5÷2.5)	CBP-M608	0.25 x 0.03	1,750
12÷10 (4÷6)	CGP-M608	0.25 x 0.03	1,250

female disconnect terminals

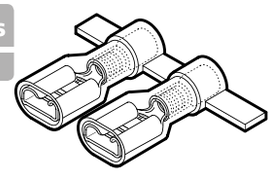
c UL us File no. E212000 · Brass



Conductor Size AWG (sqmm)	Type	Tab Size in.	Quantity
22÷16 (0.25÷1.5)	CRP-F305	0.11 x 0.02	2,000
	CRP-F308	0.11 x 0.03	2,000
	CRP-F405	0.19 x 0.02	2,000
	CRP-F408	0.19 x 0.03	2,000
	CRP-F608	0.25 x 0.03	2,000
16÷14 (1.5÷2.5)	CBP-F405	0.19 x 0.02	1,750
	CBP-F408	0.19 x 0.03	1,750
	CBP-F608	0.25 x 0.03	1,750
12÷10 (4÷6)	CGP-F608	0.25 x 0.03	1,250

female disconnect terminals fully insulated

c UL us File no. E212000 · Brass



Conductor Size AWG (sqmm)	Type	Tab Size in.	Quantity
22÷16 (0.25÷1.5)	CRP-F405P	0.19 x 0.02	2,000
	CRP-F408P	0.19 x 0.03	2,000
	CRP-F608P	0.25 x 0.03	1,500
16÷14 (1.5÷2.5)	CBP-F408P	0.19 x 0.03	1,500
	CBP-F608P	0.25 x 0.03	1,500
12÷10 (4÷6)	CGP-F608P	0.25 x 0.03	1,250

*Made to order

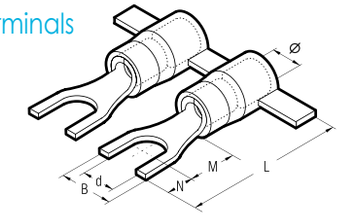
INSULATED CHAIN TERMINALS

CP range with easy entry - for Copper conductors

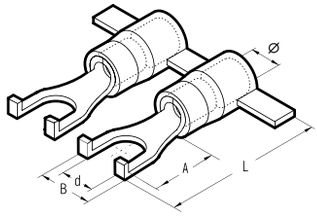
CRP CBP CGP

fork/spade terminals

File no. E125401

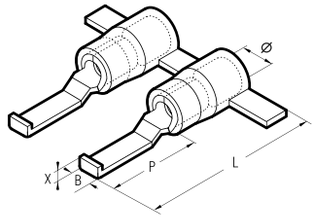


Cond. Size AWG (sqmm)	Ø Stud in.	Type	Dimensions in.						Quantity
			Ø	B	M	N	L	d	
22÷16 (0.25÷1.5)	#4	CRP-U3	0.16	0.22	0.22	0.16	0.77	0.13	2,000
	#6	CRP-U3.5	0.16	0.24	0.26	0.15	0.80	0.15	2,000
	#6	CRP-U3.5/2*	0.16	0.25	0.26	0.15	0.80	0.15	2,000
	#8	CRP-U4	0.16	0.26	0.30	0.15	0.84	0.17	2,000
	#8	CRP-U4/1*	0.16	0.33	0.30	0.15	0.84	0.17	2,000
	#8	CRP-U4/2*	0.16	0.30	0.30	0.15	0.84	0.17	2,000
	#10	CRP-U5	0.16	0.33	0.30	0.15	0.84	0.21	2,000
	1/4"	CRP-U6	0.16	0.37	0.32	0.19	0.90	0.25	2,000
	1/4"	CRP-U6/1*	0.16	0.47	0.36	0.28	1.04	0.25	2,000
	5/16"	CRP-U8*	0.16	0.55	0.39	0.25	1.04	0.33	2,000
16÷14 (1.5÷2.5)	#4	CBP-U3	0.19	0.22	0.22	0.16	0.77	0.13	1,750
	#6	CBP-U3.5	0.19	0.25	0.26	0.15	0.80	0.15	1,750
	#8	CBP-U4	0.19	0.26	0.30	0.15	0.84	0.17	1,750
	#8	CBP-U4/1*	0.19	0.33	0.30	0.15	0.84	0.17	1,750
	#8	CBP-U4/2*	0.19	0.30	0.30	0.15	0.84	0.17	1,750
	#10	CBP-U5	0.19	0.33	0.30	0.15	0.84	0.21	1,750
	1/4"	CBP-U6	0.19	0.37	0.32	0.19	0.90	0.25	1,750
12÷10 (4÷6)	#6	CGP-U3.5*	0.26	0.30	0.33	0.15	1.04	0.15	1,250
	#8	CGP-U4*	0.26	0.30	0.31	0.17	1.04	0.17	1,250
	#10	CGP-U5	0.26	0.37	0.31	0.17	1.04	0.21	1,250
	1/4"	CGP-U6	0.26	0.39	0.43	0.22	1.20	0.25	1,250



Cond. Size AWG (sqmm)	Ø Stud in.	Type	Dimensions in.					Quantity
			Ø	B	A	L	d	
16÷14 (1.5÷2.5)	#8	CBP-U 4/3L♦	0.19	0.26	0.37	0.57	0.17	1,750

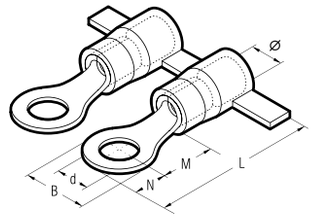
hooked blade terminals



Cond. Size AWG (sqmm)	Type	Dimensions in.					Quantity
		Ø	B	P	L	X	
22÷16 (0.25÷1.5)	CRP-PPL30♦	0.16	0.12	0.69	1.13	0.07	2,000
16÷14 (1.5÷2.5)	CBP-PPL30♦	0.19	0.12	0.69	1.13	0.07	1,750

ring terminals

File no. E125401



Cond. Size AWG (sqmm)	Ø Stud in.	Type	Dimensions in.						Quantity
			Ø	B	M	N	L	d	
22÷16 (0.25÷1.5)	#4	CRP-M 3	0.16	0.22	0.18	0.11	0.69	0.13	2,000
	#6	CRP-M 3.5*	0.16	0.22	0.18	0.11	0.69	0.15	2,000
	#6	CRP-M 3.5/1	0.16	0.24	0.28	0.12	0.80	0.15	2,000
	#8	CRP-M 4	0.16	0.28	0.26	0.14	0.79	0.17	2,000
	#8	CRP-M 4/3*	0.16	0.31	0.28	0.15	0.83	0.17	2,000
	#10	CRP-M 5	0.16	0.31	0.28	0.15	0.83	0.21	2,000
	1/4"	CRP-M 6	0.16	0.37	0.32	0.19	0.90	0.25	2,000
	1/4"	CRP-M 6/1*	0.16	0.47	0.41	0.24	1.04	0.25	2,000
	17/64"	CRP-M 7	0.16	0.37	0.32	0.19	0.90	0.28	2,000
	5/16"	CRP-M 8	0.16	0.47	0.41	0.24	1.04	0.33	2,000
16÷14 (1.5÷2.5)	#4	CBP-M 3	0.19	0.22	0.20	0.11	0.70	0.13	1,750
	#6	CBP-M 3.5	0.19	0.22	0.20	0.11	0.70	0.15	1,750
	#6	CBP-M 3.5/1*	0.19	0.24	0.26	0.12	0.77	0.15	1,750
	#8	CBP-M 4	0.19	0.31	0.26	0.16	0.81	0.17	1,750
	#10	CBP-M 5	0.19	0.31	0.30	0.16	0.85	0.21	1,750
	1/4"	CBP-M 6	0.19	0.37	0.34	0.19	0.92	0.25	1,750
	1/4"	CBP-M 6/1*	0.19	0.47	0.41	0.24	1.04	0.25	1,750
	17/64"	CBP-M 7	0.19	0.39	0.31	0.20	0.90	0.28	1,750
	5/16"	CBP-M 8	0.19	0.47	0.41	0.24	1.04	0.33	1,750
12÷10 (4÷6)	#4	CGP-M 3	0.26	0.31	0.32	0.16	1.03	0.13	1,250
	#6	CGP-M 3.5	0.26	0.31	0.32	0.16	1.03	0.15	1,250
	#8	CGP-M 4	0.26	0.35	0.32	0.18	1.05	0.17	1,250
	#10	CGP-M 5	0.26	0.35	0.32	0.18	1.05	0.21	1,250
	1/4"	CGP-M 6	0.26	0.43	0.44	0.22	1.21	0.25	1,250
	1/4"	CGP-M 6/1*	0.26	0.43	0.32	0.22	1.09	0.25	1,250
	17/64"	CGP-M 7	0.26	0.30	0.44	0.22	1.21	0.28	1,000
	5/16"	CGP-M 8	0.26	0.54	0.48	0.27	1.30	0.33	1,250
	5/16"	CGP-M 8/1*	0.26	0.43	0.32	0.22	1.09	0.33	1,250
	3/8"	CGP-M10	0.26	0.54	0.48	0.27	1.30	0.41	1,250

Interchangeable application heads are available for crimping these terminals with the bench press ELB-3 (see page 166).

♦Not UL approved *Made to order

CEMBRE

PKD

PA6 INSULATED END SLEEVES

for flexible Copper conductors

PA6 Cu ANNEALED 3µm TIN PLATED -4°F +239°F TRAPEZIUM SQUARE

UL CERTIFIED SAFETY US-CA E481745

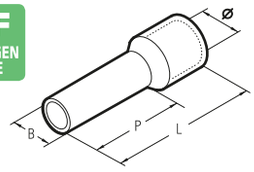
VALSTAR-N3 **NEW**
Comprising:
- a selection of end sleeves PKD conductor size 17÷10 AWG
- Cable ties type G100X2.5
- Tool type ZKE610N

VALSTAR-N2 **NEW**
Comprising:
- a selection of end sleeves PKE conductor size 17÷10 AWG
- Cable ties type G100X2.5
- Tool type ZKE610N

VALSTAR-N1 **NEW**
Comprising:
- a selection of end sleeves PKC conductor size 17÷10 AWG
- Cable ties type G100X2.5
- Tool type ZKE610N

The PK.. range of end sleeves is manufactured from Tin plated electrolytic Copper with a purity greater than 99.9%. Designed and developed to reinforce fine wire strands when terminating a cable into a connector block.
The PKD series of insulated end sleeves comply with specification DIN 46228/4.
The operating temperature range is – 4 to + 239°F (Surge + 266°F). Recommended crimping tools are shown on pages 136 to 166, 213-214, 242-244.

HF HALOGEN FREE



Conductor Size AWG (sqmm)	Type	Dimensions in. Ø	B	P	L	Insulation Color	Quantity Box/Bag
22÷20 (0.3÷0.5)	PKD506	0.10	0.06	0.24	0.47	white	10,000/500
	PKD508	0.10	0.06	0.31	0.55		10,000/500
	PKD510	0.10	0.06	0.39	0.63		10,000/500
18 (0.75)	PKD7506	0.11	0.06	0.24	0.47	grey	10,000/500
	PKD7508	0.11	0.06	0.31	0.55		10,000/500
	PKD7510	0.11	0.06	0.39	0.63		10,000/500
	PKD7512	0.11	0.06	0.47	0.71		10,000/500
17 (1)	PKD106	0.12	0.07	0.24	0.47	red	10,000/500
	PKD108	0.12	0.07	0.31	0.55		10,000/500
	PKD110	0.12	0.07	0.39	0.63		10,000/500
	PKD112	0.12	0.07	0.47	0.71		8,000/500
16 (1.5)	PKD1508	0.14	0.08	0.31	0.55	black	5,000/500
	PKD1510	0.14	0.08	0.39	0.63		5,000/500
	PKD1512	0.14	0.08	0.47	0.71		5,000/500
	PKD1518	0.14	0.08	0.71	0.94		5,000/500
14 (2.5)	PKD2508	0.17	0.1	0.31	0.55	blue	5,000/500
	PKD2512	0.17	0.1	0.47	0.71		4,000/500
	PKD2518	0.17	0.1	0.71	0.94		5,000/500
12 (4)	PKD410	0.19	0.13	0.39	0.71	grey	3,000/200
	PKD412	0.19	0.13	0.47	0.79		3,000/200
	PKD418	0.19	0.13	0.71	1.02		3,000/200
10 (6)	PKD612	0.25	0.16	0.47	0.79	yellow	1,500/100
	PKD618	0.25	0.16	0.71	1.02		1,500/100
8÷7 (10)	PKD1012	0.30	0.2	0.47	0.87	red	1,000/100
	PKD1018	0.30	0.2	0.71	1.10		1,000/100
6÷5 (16)	PKD1612	0.35	0.25	0.47	0.94	blue	800/100
	PKD1618	0.35	0.25	0.71	1.10		1,000/100
4 (25)	PKD25016	0.44	0.31	0.63	1.18	yellow	400/50
	PKD25022	0.44	0.31	0.87	1.42		400/50
2 (35)	PKD35016	0.50	0.35	0.63	1.18	red	300/50
	PKD35025	0.50	0.35	0.98	1.54		200/50
1/0 (50)	PKD50020	0.59	0.43	0.79	1.42	blue	200/50
	PKD50025	0.59	0.43	0.98	1.61		200/50

PKE

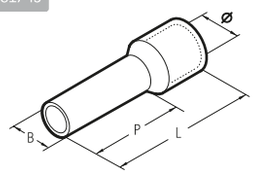
PA6 INSULATED END SLEEVES

for flexible Copper conductors

PA6 Cu ANNEALED 3µm TIN PLATED -4°F +239°F TRAPEZIUM SQUARE

UL CERTIFIED SAFETY US-CA E481745

HF HALOGEN FREE



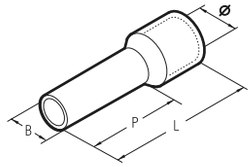
Conductor Size AWG (sqmm)	Type	Dimensions in. Ø	B	P	L	Insulation Color	Quantity Box/Bag
26÷22 (0.1÷0.3)	PKE308♦	0.07	0.04	0.31	0.47	yellow	20,000/500
22÷20 (0.3÷0.5)	PKE508*	0.10	0.06	0.31	0.55	white	10,000/500
18 (0.75)	PKE7508	0.11	0.06	0.31	0.55	blue	10,000/500
17 (1)	PKE108*	0.12	0.07	0.31	0.55	red	10,000/500
16 (1,5)	PKE1508*	0.14	0.08	0.31	0.55	black	5,000/500
	PKE1510*	0.14	0.08	0.39	0.63		5,000/500
	PKE1518*	0.14	0.08	0.71	0.94		5,000/500
14 (2,5)	PKE2508	0.17	0.1	0.31	0.55	grey	5,000/500
	PKE2512	0.17	0.1	0.47	0.71		4,000/500
	PKE2518	0.17	0.1	0.71	0.94		3,000/500
12 (4)	PKE410	0.19	0.13	0.39	0.71	orange	3,000/200
	PKE412	0.19	0.13	0.47	0.79		3,000/200
	PKE418	0.19	0.13	0.71	1.02		3,000/200
10 (6)	PKE612	0.25	0.16	0.47	0.79	green	1,500/100
	PKE618	0.25	0.16	0.71	1.02		1,500/100
8÷7 (10)	PKE1012	0.30	0.2	0.47	0.87	brown	1,000/100
	PKE1018	0.30	0.2	0.71	1.10		1,000/100
6÷5 (16)	PKE1612	0.35	0.24	0.47	0.91	ivory	800/100
	PKE1618	0.35	0.24	0.71	1.14		1,000/100
4 (25)	PKE25016	0.44	0.31	0.63	1.18	black	400/50
	PKE25022	0.44	0.31	0.87	1.42		400/50

*to DIN standard 46 228/4 ♦Not UL approved

PA6 INSULATED END SLEEVES

for flexible Copper conductors

PKC



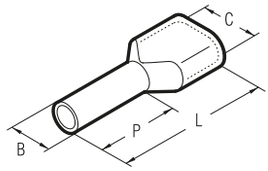
Conductor Size AWG (sqmm)	Type	Dimensions in. Ø	B	P	L	Insulation Color	Quantity Box/Bag
26÷22 (0.1÷0.3)	PKC306♦	0.07	0.04	0.24	0.39	turquoise	20,000/500
	PKC308♦	0.07	0.04	0.31	0.47		20,000/500
22÷20 (0.3÷0.5)	PKC508	0.10	0.06	0.31	0.55	orange	10,000/500
	PKC510	0.10	0.06	0.39	0.63		10,000/500
18 (0.75)	PKC7508	0.11	0.06	0.31	0.55	white	10,000/500
	PKC7512	0.11	0.06	0.47	0.71		10,000/500
17 (1)	PKC108	0.12	0.07	0.31	0.55	yellow	10,000/500
	PKC112	0.12	0.07	0.47	0.71		7,500/500
16 (1.5)	PKC1508	0.14	0.08	0.31	0.55	red	5,000/500
	PKC1510	0.14	0.08	0.39	0.63		5,000/500
	PKC1518	0.14	0.08	0.71	0.94		5,000/500
14 (2.5)	PKC2508*	0.17	0.10	0.31	0.55	blue	5,000/500
	PKC2512*	0.17	0.10	0.47	0.71		5,000/500
	PKC2518*	0.17	0.10	0.71	0.94		5,000/500
12 (4)	PKC410*	0.19	0.13	0.39	0.71	grey	3,000/200
	PKC412*	0.19	0.13	0.47	0.79		3,000/200
	PKC418*	0.19	0.13	0.71	1.02		3,000/200
10 (6)	PKC612	0.25	0.16	0.47	0.79	black	1,500/100
	PKC618	0.25	0.16	0.71	1.02		1,500/100
8÷7 (10)	PKC1012	0.30	0.20	0.47	0.87	ivory	1,000/100
	PKC1018	0.30	0.20	0.71	1.10		1,000/100
6÷5 (16)	PKC1612	0.35	0.24	0.47	0.91	green	800/100
	PKC1618	0.35	0.24	0.71	1.14		1,000/100
4 (25)	PKC25016	0.44	0.31	0.63	1.18	brown	400/50
	PKC25022	0.44	0.31	0.87	1.42		500/50
2 (35)	PKC35016	0.50	0.35	0.63	1.18	beige	300/50
	PKC35025	0.50	0.35	0.98	1.54		300/50
1/0 (50)	PKC50020	0.59	0.43	0.79	1.42	olive	200/50
	PKC50025	0.59	0.43	0.98	1.61		200/50
2/0 (70)	PKC70022♦	0.63	0.56	0.87	1.50	yellow	100/25
3/0 (95)	PKC95025♦	0.71	0.62	0.98	1.73	red	100/25
250 MCM (120)	PKC120027♦	0.83	0.69	1.06	1.89	blue	100/25

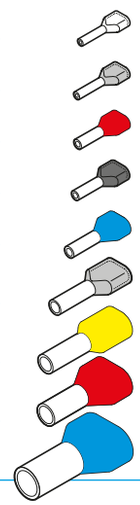
*to DIN standard 46 228/4 ♦Not UL approved

"TWIN" PA6 INSULATED END SLEEVES

for fine stranded conductors

PKT





Conductor Size AWG (sqmm)	Type	Dimensions in. C	B	P	L	Insulation Color	ND1,ND2,ND3, ND4 and HNKE 50 Compression Aperture	Quantity Box/Bag
2 x 20 (2 x 0,5)	PKT508	0.19x0.10	0.07	0.32	0.55	white	1	5,000/500
	PKT510♦	0.19x0.10	0.07	0.39	0.71			5,000/500
2 x 18 (2 x 0,75)	PKT7508	0.20x0.11	0.08	0.32	0.59	grey	1,5	2,500/100
	PKT7510	0.20x0.11	0.08	0.39	0.67			2,500/100
2 x 17 (2 x 1)	PKT108	0.21x0.13	0.09	0.32	0.63	red	2,5	2,500/100
	PKT110	0.21x0.13	0.09	0.39	0.71			2,500/100
2 x 16 (2 x 1,5)	PKT1508	0.26x0.14	0.10	0.32	0.63	black	2,5	2,500/100
	PKT1512	0.26x0.14	0.10	0.47	0.79			2,500/100
2 x 14 (2 x 2,5)	PKT2510	0.31x0.17	0.13	0.39	0.79	blue	4	2,000/100
	PKT2512	0.31x0.17	0.13	0.47	0.87			1,500/100
2 x 12 (2 x 4)	PKT412	0.35x0.19	0.17	0.47	0.91	grey	6	1,000/100
2 x 10 (2 x 6)	PKT614	0.39x0.27	0.21	0.55	1.02	yellow	10	800/100
2 x 8÷7 (2 x 10)	PKT1014♦	0.52x0.30	0.24	0.47	0.94	red	16	500/50
2 x 6÷5 (2 x 16)	PKT1614	0.73x0.38	0.35	0.55	1.20	blue	35	300/50

♦Not UL approved

Type PKT range of end sleeves is manufactured from Tin plated electrolytic Copper with a purity greater than 99.9%.
Designed to accomodate two cables terminating in the same sleeve.
The operating temperature range is – 4 to + 239°F (Surge + 266°F).

Recommended crimping tools are shown on pages 136 to 166, 213-214, 242-244.

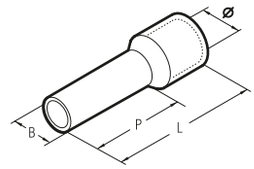
CEMBRE

CPKD
CPKC

POLYPROPYLENE INSULATED CHAIN END SLEEVES

for flexible Copper conductors

HF HALOGEN FREE



PP · Cu · ANNEALED · 3µm TIN PLATED · -4°F +239°F · TRAPEZIUM

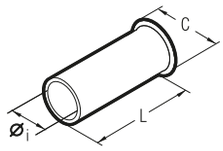
Conductor Size AWG (sqmm)	Type	Dimensions in. Ø	B	P	L	Insulation Color	Quantity Box/Bag
22÷20 (0.3÷0.5)	**CPKD508**	0.10	0.05	0.31	0.55	white	5,000
18 (0.75)	**CPKD7508**	0.11	0.06	0.31	0.55	grey	5,000
18 (0.75)	**CPKC7508** NEW	0.11	0.06	0.31	0.55	white	5,000
17 (1)	**CPKD108**	0.12	0.07	0.31	0.55	red	5,000
15 (1,5)	**CPKD1508**	0.14	0.08	0.31	0.55	black	5,000
13 (2,5)	**CPKD2508**	0.17	0.10	0.31	0.55	blue	3,000

Conforms to DIN standard 46228/4.

Interchangeable application heads are available for crimping these terminals with the bench press ELB-3 (see page 166).

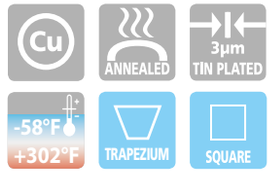
UNINSULATED END SLEEVES

for flexible Copper conductors



Conductor Size AWG (sqmm)	Type	Dimensions in.			Quantity Box/Bag
		Ø	L	C	
22÷20 (0.5)	KE506ST*	0.04	0.24	0.07	50,000/500
	KE508ST	0.04	0.31	0.07	50,000/500
18 (0.75)	KE7506ST*	0.05	0.24	0.09	40,000/500
	KE7508ST	0.05	0.31	0.09	40,000/500
17 (1)	KE106ST*	0.06	0.24	0.09	25,000/500
	KE110ST*	0.06	0.39	0.09	25,000/500
16 (1.5)	KE1508ST	0.07	0.31	0.11	25,000/500
	KE1510ST*	0.07	0.39	0.11	25,000/500
14 (2.5)	KE2508ST	0.09	0.31	0.13	20,000/500
	KE2510ST*	0.09	0.39	0.13	15,000/500
12 (4)	KE410ST	0.11	0.39	0.16	12,500/500
	KE412ST*	0.11	0.47	0.16	10,000/500
10 (6)	KE610ST*	0.14	0.39	0.19	10,000/500
	KE612ST*	0.14	0.47	0.19	7,500/500
	KE616ST*	0.14	0.59	0.19	5,000/500
8÷7 (10)	KE1016ST*	0.18	0.59	0.23	4,000/250
6÷5 (16)	KE1616ST*	0.23	0.59	0.30	3,000/250
4 (25)	KE25015ST	0.29	0.59	0.37	1,500/100
	KE25018ST*	0.29	0.71	0.37	1,500/100
2 (35)	KE35012ST	0.33	0.47	0.41	1,500/100
	KE35015ST	0.33	0.63	0.41	1,500/100
	KE35018ST*	0.33	0.71	0.41	1,000/100

**to DIN standard 46 228/1*



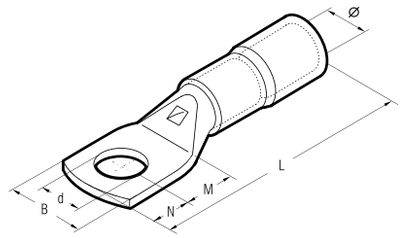
KE series end sleeves are manufactured from Tin plated electrolytic Copper of grade CW024A according to EN 12449, with purity greater than 99%. The compact geometry of the range allows for the termination of flexible conductors in confined spaces.

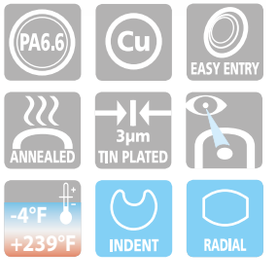
Recommended crimping tools are shown on pages 136 to 166, 213-214, 242-244.

ANE-M

NYLON INSULATED COPPER TUBE LUGS

for Copper conductors





ANE-M series lugs are manufactured from electrolytic Copper tube with a purity greater than 99.9%, annealed and Tin plated.
The interior of the Nylon insulated sleeve is funnel shaped so as to ensure complete and easy introduction of the conductor strands.
It also eliminates the need to insulate the terminal using either tape or heat shrinkable tubing.
Furthermore the PA6.6 sleeve avoids the possibility of conductor breakage at the barrel entrance.
The operating temperature range is –4 to +239°F (Surge + 266°F).
In order to achieve the best electrical and mechanical performance it is suggested that they are crimped using dies and tools specifically developed for this purpose by Cembre.

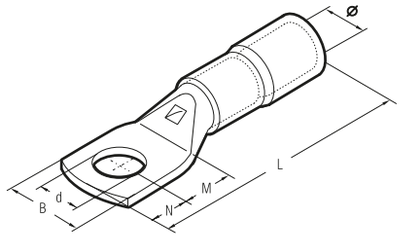
Details of the appropriate crimping tools and dies are shown on pages 292 to 293.

Cond. Size Flexible AWG	Ø Stud in.	Type	Dimensions in.						Quantity Box/Bag	Mechanical Tools				Hydraulic Tools									
			Ø	B	M	N	L	d		HNN3	HNN4	TNN70	TNN120	B15MA	HT51	RH50	B500A	B500NDA	B550CA	B1300L-CA and similar tools for U dies	ECW-H3D
8	#8	ANE2-M4	0.31	0.39	0.20	0.16	1.34	0.17	500/100	●	●	●	●	●	●	●	●	●	●	●	●
	#10	ANE2-M5	0.31	0.39	0.26	0.24	1.48	0.21	500/100	●	●	●	●	●	●	●	●	●	●	●	●
	1/4″	ANE2-M6	0.31	0.43	0.28	0.24	1.50	0.25	500/100	●	●	●	●	●	●	●	●	●	●	●	●
	5/16″	ANE2-M8	0.31	0.59	0.35	0.31	1.66	0.33	500/100	●	●	●	●	●	●	●	●	●	●	●	●
	3/8″	ANE2-M10	0.31	0.71	0.43	0.39	1.81	0.41	500/100	●	●	●	●	●	●	●	●	●	●	●	●
	1/2″	ANE2-M12	0.31	0.75	0.55	0.47	2.01	0.52	500/100	●	●	●	●	●	●	●	●	●	●	●	●
6	#8	ANE3-M4	0.36	0.45	0.20	0.16	1.52	0.17	400/100		●	●	●	●	●	●	●	●	●	●	●
	#10	ANE3-M5	0.36	0.45	0.26	0.24	1.66	0.21	400/100		●	●	●	●	●	●	●	●	●	●	●
	1/4″	ANE3-M6	0.36	0.45	0.28	0.24	1.68	0.25	400/100		●	●	●	●	●	●	●	●	●	●	●
	5/16″	ANE3-M8	0.36	0.59	0.35	0.31	1.83	0.33	400/100		●	●	●	●	●	●	●	●	●	●	●
	3/8″	ANE3-M10	0.36	0.71	0.43	0.39	1.99	0.41	300/100		●	●	●	●	●	●	●	●	●	●	●
	1/2″	ANE3-M12	0.36	0.79	0.55	0.47	2.19	0.52	300/100		●	●	●	●	●	●	●	●	●	●	●
4	#8	ANE5-M4	0.44	0.55	0.20	0.16	1.61	0.17	300/100			●	●		●	●	●	●	●	●	●
	#10	ANE5-M5	0.44	0.55	0.26	0.24	1.75	0.21	300/100			●	●		●	●	●	●	●	●	●
	1/4″	ANE5-M6	0.44	0.55	0.28	0.24	1.77	0.25	300/100			●	●		●	●	●	●	●	●	●
	5/16″	ANE5-M8	0.44	0.59	0.35	0.31	1.93	0.33	300/100			●	●		●	●	●	●	●	●	●
	3/8″	ANE5-M10	0.44	0.71	0.43	0.39	2.09	0.41	200/100			●	●		●	●	●	●	●	●	●
	1/2″	ANE5-M12	0.44	0.83	0.55	0.47	2.28	0.52	200/50			●	●		●	●	●	●	●	●	●
2	1/4″	ANE7-M6	0.54	0.67	0.28	0.24	1.97	0.25	100/50			●	●		●	●	●	●	●	●	●
	5/16″	ANE7-M8	0.54	0.67	0.35	0.31	2.13	0.33	100/50			●	●		●	●	●	●	●	●	●
	3/8″	ANE7-M10	0.54	0.75	0.43	0.39	2.28	0.41	100/50			●	●		●	●	●	●	●	●	●
	1/2″	ANE7-M12	0.54	0.83	0.55	0.47	2.48	0.52	100/50			●	●		●	●	●	●	●	●	●
2-1/0	1/4″	ANE10-M6	0.54	0.75	0.31	0.28	2.09	0.25	150/50			●	●		●	●	●	●	●	●	●
	5/16″	ANE10-M8	0.54	0.75	0.35	0.31	2.17	0.33	150/50			●	●		●	●	●	●	●	●	●
	3/8″	ANE10-M10	0.54	0.79	0.45	0.37	2.32	0.41	150/50			●	●		●	●	●	●	●	●	●
	1/2″	ANE10-M12	0.54	0.83	0.47	0.47	2.44	0.52	150/50			●	●		●	●	●	●	●	●	●
1/0-2/0	1/4″	ANE14-M6	0.62	0.83	0.31	0.28	2.40	0.25	75/25			●	●		●	●	●	●	●	●	●
	5/16″	ANE14-M8	0.62	0.83	0.35	0.31	2.48	0.31	75/25			●	●		●	●	●	●	●	●	●
	3/8″	ANE14-M10	0.62	0.83	0.43	0.39	2.64	0.41	75/25			●	●		●	●	●	●	●	●	●
	1/2″	ANE14-M12	0.62	0.87	0.55	0.47	2.83	0.52	75/25			●	●		●	●	●	●	●	●	●
	9/16"	ANE14-M14	0.62	0.98	0.63	0.55	2.99	0.59	100/25			●	●		●	●	●	●	●	●	●
2/0 3/0	5/16"	ANE19-M8	0.71	0.98	0.35	0.31	2.87	0.33	50/25				●		●	●	●	●	●	●	●
	3/8"	ANE19-M10	0.71	0.98	0.43	0.39	3.03	0.41	50/25				●		●	●	●	●	●	●	●
	1/2"	ANE19-M12	0.71	0.98	0.55	0.47	3.23	0.52	50/25				●		●	●	●	●	●	●	●
	9/16"	ANE19-M14	0.71	0.98	0.63	0.55	3.39	0.59	50/25				●		●	●	●	●	●	●	●
	5/8"	ANE19-M16	0.71	1.06	0.71	0.63	3.15	0.67	50/25				●		●	●	●	●	●	●	●
3/0 250	3/8"	ANE24-M10	0.79	1.12	0.43	0.39	3.06	0.41	50/25				●		●	●	●	●	●	●	●
	1/2"	ANE24-M12	0.79	1.12	0.55	0.47	3.41	0.52	50/25				●		●	●	●	●	●	●	●
	9/16"	ANE24-M14	0.79	1.12	0.63	0.55	3.48	0.59	50/25				●		●	●	●	●	●	●	●
	5/8"	ANE24-M16	0.79	1.12	0.71	0.63	3.56	0.67	50/25				●		●	●	●	●	●	●	●
250 300 MCM	1/2"	ANE30-M12	0.91	1.24	0.63	0.55	3.98	0.52	20/10				●							●	●
	9/16"	ANE30-M14	0.91	1.24	0.71	0.63	4.13	0.59	30/15				●							●	●
	5/8"	ANE30-M16	0.91	1.24	0.75	0.67	4.21	0.67	30/15				●							●	●
	3/4"	ANE30-M20	0.91	1.24	0.87	0.79	4.45	0.83	30/15				●							●	●

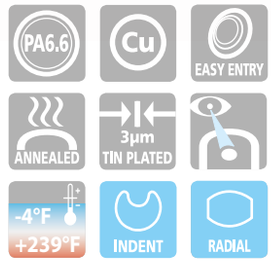
NYLON INSULATED COPPER TUBE LUGS

ANE-M

for extra flexible Copper conductors



Conductor Size Extra Flexible AWG	Ø Stud in.	Type	Dimensions in.						Quantity Box/Bag	Mechanical Tools		Hydraulic Tools								
			Ø	B	M	N	L	d		TNN70	TNN120	HT51	RH50	B500A	B500NDA	B550CA	B1300L-CA and similar tools for U dies	ECW-H3D
2	1/4"	ANE9-M6/15*	0.54	0.59	0.31	0.28	2.13	0.25	150/50	●	●	●	●	●	●	●	●	●
	5/16"	ANE9-M8	0.54	0.67	0.35	0.31	2.20	0.33	150/50	●	●	●	●	●	●	●	●	●
	3/8"	ANE9-M10	0.54	0.73	0.43	0.39	2.36	0.41	150/50	●	●	●	●	●	●	●	●	●
	1/2"	ANE9-M12	0.54	0.83	0.55	0.47	2.56	0.52	150/50	●	●	●	●	●	●	●	●	●
2-1/0	1/4"	ANE12-M6/15*	0.62	0.59	0.31	0.28	2.34	0.25	50/25	●	●	●	●	●	●	●	●	●
	5/16"	ANE12-M8	0.62	0.78	0.35	0.31	2.42	0.33	50/25	●	●	●	●	●	●	●	●	●
	3/8"	ANE12-M10	0.62	0.78	0.43	0.39	2.58	0.41	50/25	●	●	●	●	●	●	●	●	●
	3/8"	ANE12-M10/19*	0.62	0.75	0.43	0.39	2.58	0.41	50/25	●	●	●	●	●	●	●	●	●
	1/2"	ANE12-M12	0.62	0.87	0.55	0.47	2.78	0.52	50/25	●	●	●	●	●	●	●	●	●
1/0-2/0	1/4"	ANE17-M6	0.70	0.91	0.31	0.28	2.51	0.25	100/25	●	●	●	●	●	●	●	●	●
	5/16"	ANE17-M8	0.70	0.91	0.35	0.31	2.59	0.33	50/25	●	●	●	●	●	●	●	●	●
	3/8"	ANE17-M10	0.70	0.91	0.43	0.39	2.75	0.41	50/25	●	●	●	●	●	●	●	●	●
	3/8"	ANE17-M10/19*	0.70	0.75	0.43	0.39	2.75	0.41	100/25	●	●	●	●	●	●	●	●	●
	1/2"	ANE17-M12	0.70	0.91	0.55	0.47	2.94	0.52	50/25	●	●	●	●	●	●	●	●	●
	9/16"	ANE17-M14	0.70	0.98	0.61	0.47	3.00	0.59	50/25	●	●	●	●	●	●	●	●	●
	5/8"	ANE17-M16	0.70	1.06	0.65	0.53	3.10	0.67	50/25	●	●	●	●	●	●	●	●	●
2/0 3/0	5/16"	ANE20-M8	0.79	1.06	0.35	0.31	2.78	0.33	50/25		●						●	●
	3/8"	ANE20-M10	0.79	1.06	0.43	0.39	2.94	0.41	50/25		●						●	●
	1/2"	ANE20-M12	0.79	1.06	0.55	0.47	3.13	0.52	50/25		●						●	●
	9/16"	ANE20-M14	0.79	1.06	0.61	0.47	3.19	0.59	50/25		●						●	●
	5/8"	ANE20-M16	0.79	1.06	0.65	0.53	3.29	0.67	50/25		●						●	●
3/0 250	3/8"	ANE29-M10	0.88	1.18	0.43	0.39	3.21	0.41	30/15		●						●	●
	1/2"	ANE29-M12	0.88	1.18	0.55	0.47	3.41	0.52	30/15		●						●	●
	9/16"	ANE29-M14	0.88	1.18	0.61	0.47	3.48	0.59	50/25		●						●	●
	5/8"	ANE29-M16	0.88	1.18	0.65	0.53	3.56	0.67	50/25		●						●	●
	3/4"	ANE29-M20	0.88	1.18	0.87	0.79	4.04	0.83	40/20		●						●	●
235 300 MCM	1/2"	ANE35-M12	0.98	1.35	0.63	0.55	3.74	0.52	30/15								●	●
	9/16"	ANE35-M14	0.98	1.35	0.71	0.63	3.90	0.59	30/15								●	●
	5/8"	ANE35-M16	0.98	1.35	0.75	0.67	3.98	0.67	30/15								●	●
	3/4"	ANE35-M20	0.98	1.35	0.87	0.79	4.21	0.83	30/15								●	●



These lugs are particularly recommended for use with extra flexible conductors on for instance, welding machines.
ANE-M series lugs are manufactured from electrolytic Copper tube with a purity greater than 99.9%, annealed and Tin plated.
The interior of the Nylon insulated sleeve is funnel shaped so as to ensure complete and easy introduction of the conductor strands.
It also eliminates the need to insulate the terminal using either tape or heat shrinkable tubing.
Furthermore the PA6.6 sleeve avoids the possibility of conductor breakage at the barrel entrance.
The operating temperature range is –4 to +239°F (Surge + 266°F).
In order to achieve the best electrical and mechanical performance it is suggested that they are crimped using dies and tools specifically developed for this purpose by Cembre.

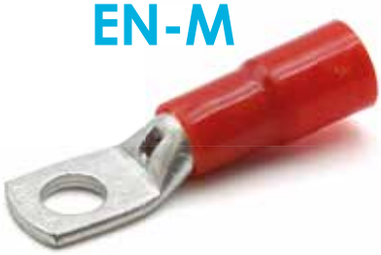
Details of the appropriate crimping tools and dies are shown on pages 292 to 293.

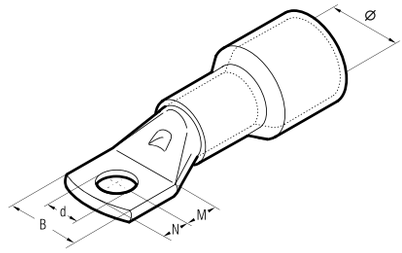
CEMBRE

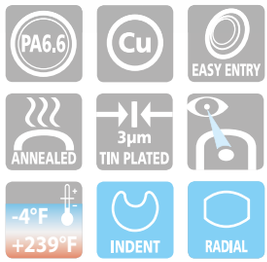
AN-M
IN-M
EN-M

NYLON INSULATED COPPER TUBE LUGS

for Copper conductors







These terminals are particularly recommended for use with flexible conductors.
They are manufactured from electrolytic copper tube with a purity greater than 99.9% and with dimension so as to ensure both a good electrical connection and an adequate resistance to vibrations and traction; they are annealed and tin plated.
For the same cable section are available different types of connectors with Nylon sleeve entry of different diameters so as to accept conductors with various insulation thickness.
The insulated sleeve additionally will accept the conductor so avoiding a sudden bending of the conductor itself at the connector entry, highly increasing its resistance to the mechanical solicitations that could break the conductor strands.

- To complete the type of connectors add the screw diameter expressed in mm to the M reference.

- The M, N, and B dimensions concerning the palm are the same as the A-M connector ones.

These connectors can be used also on low stranded conductors if crimped with radial containment dies of the MN..RF-C series.

In order to achieve the best electrical and mechanical performance it is suggested that they are crimped using dies and tools specifically developed for this purpose by Cembre (see page 292 to 293).

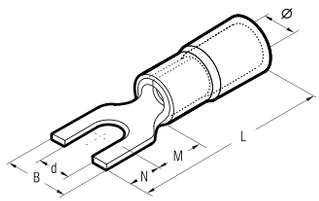
Conductor Size (AWG)		Type	Insulation		Mechanical Tools			Hydraulic Tools					
low stranded	Flexible		Ø in.	Color	HNN3	HNN4	TNN70	TNN 120	B15MA	B550CA	B500NDA	B500A	RH50	HT51	B1300L-CA and similar tools for U dies	ECW-H3D
	(14)	AN06-M.....	0.16	blue	●											
		IN06-M.....	0.20	green	●											
		ENR06-M.....	0.23	blue	●											
		EN06-M.....	0.27		●											
	(10)	AN1-M.....	0.20	yellow	●											
		IN1-M.....	0.25	neutral	●											
		ON1-M.....	0.29	blue	●											
		UN1-M.....	0.34		●											
		EN1-M.....	0.55	red	●											
	(8)	AN2-M.....	0.31	red	●	●	●	●	●	●	●	●	●	●	●	●
		IN2-M.....	0.42	blue	●	●	●	●	●	●	●	●	●	●	●	●
		ENR2-M.....	0.49		●	●	●	●	●	●	●	●	●	●	●	●
		EN2-M.....	0.59	red	●	●	●	●	●	●	●	●	●	●	●	●
	(6)	AN3-M.....	0.36	blue		●	●	●	●	●	●	●	●	●	●	●
		EN3-M.....	0.46			●	●	●	●	●	●	●	●	●	●	●
		IN3-M.....	0.66	red		●	●	●	●	●	●	●	●	●	●	●
	(4)	AN5-M.....	0.44	yellow			●	●		●	●	●	●	●	●	●
(2)	(4÷2)	AN7-M.....	0.47	red			●	●		●	●	●	●	●	●	●
		EN7-M.....	0.51	blue			●	●		●	●	●	●	●	●	●
		IN7-M.....	0.73	red			●	●		●	●	●	●	●	●	●
(1/0)	(2)	AN10-M.....	0.54	neutral			●	●		●	●	●	●	●	●	●
		IN10-M.....	0.59	blue			●	●		●	●	●	●	●	●	●
		ENR10-M.....	0.68				●	●		●	●	●	●	●	●	●
		EN10-M.....	0.79	red			●	●		●	●	●	●	●	●	●
(2/0)	(1/0)	AN14-M.....	0.62	blue			●	●		●	●	●	●	●	●	●
		IN14-M.....	0.66				●	●		●	●	●	●	●	●	●
		EN14-M.....	0.86	red			●	●		●	●	●	●	●	●	●
	(2/0)	AN17-M.....	0.70	yellow			●	●		●	●	●	●	●	●	●
(3/0)	(2/0)	AN19-M.....	0.71	blue			●	●		●	●	●	●	●	●	●
		EN19-M.....	0.77				●	●		●	●	●	●	●	●	●
		IN19-M.....	0.95	red			●	●		●	●	●	●	●	●	●
(250 MCM)	(3/0)	AN24-M.....	0.79	red				●		●	●	●	●	●	●	●
		IN24-M.....	0.87	blue				●		●	●	●	●	●	●	●
		EN24-M.....	1.06	red				●		●	●	●	●	●	●	●
(300 MCM)	(250 MCM)	AN30-M.....	0.90	red				●							●	●
		EN30-M.....	0.96	blue				●							●	●
		IN30-M.....	1.14	red				●							●	●
(350 MCM)	(300 MCM)	INR37-M.....	1.14	blue											●	●
		IN37-M.....	1.24	red											●	●
	(500 MCM)	EN48-M.....	1.15	red											●	●
		IN48-M.....	1.35												●	●
	(600 MCM)	EN60-M.....	1.31	red											●	●
		IN60-M.....	1.49												●	●
	(800 MCM)	EN80-M.....	1.48	blue												●
		IN80-M.....	1.61	red												●

NYLON INSULATED FORK TERMINALS

ANE-U

for Copper conductors

File no. E125401



Conductor Size Flexible AWG	Ø Stud in.	Type	Dimensions in. Ø	B	M	N	L	d	Quantity Box/Bag	Mechanical Tools HNN3	HNN4	TNN70	TNN120	Hydraulic Tools B15MA	HT51 RH50 B500A B500NDA B550CA	B1300L-CA and similar tools for U dies	ECW-H3D
8	#8	**ANE2-U4**	0.31	0.39	0.30	0.28	1.38	0.17	*500/100*								
	#10	**ANE2-U5**	0.31	0.45	0.30	0.28	1.38	0.21	*500/100*								
6	#8	**ANE3-U4**	0.36	0.39	0.39	0.31	1.62	0.17	*400/100*								
	#10	**ANE3-U5**	0.36	0.45	0.39	0.31	1.62	0.21	*400/100*								

PA6.6 | Cu-ETP | Brazed SEAM | EASY ENTRY | ANNEALED | 3µm TIN PLATED | -4°F +239°F | INDENT | RADIAL

ANE-U series terminals are made from electrolytic Copper with a purity greater than 99.9%, rolled, Tin plated and brazed.
The interior of the Nylon insulated sleeve is funnel shaped so as to ensure complete and easy introduction of the conductor strands.
The operating temperature range is –4 to +239°F (Surge + 266°F)..

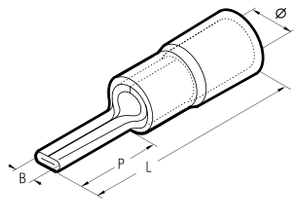
In order to achieve the best electrical and mechanical performance it is suggested that they are crimped using dies and tools specifically developed for this purpose by Cembre.
Details of the appropriate crimping tools and dies are shown on pages 292 to 293.

NYLON INSULATED PIN TERMINALS

ANE-P

for Copper conductors

File no. E125401



Conductor Size Flexible AWG	Type	Dimensions in. Ø	B	P	L	Quantity Box/Bag	Mechanical Tools HNN3	HNN4	TNN70	TNN120	Hydraulic Tools B15MA	HT51 RH50 B500A B500NDA B550CA	B1300L-CA and similar tools for U dies	ECW-H3D
8	**ANE2-P12**	0.31	0.17	0.57	1.38	*500/100*								
6	**ANE3-P14**	0.36	0.22	0.71	1.62	*400/100*								
4	**ANE5-P16**	0.44	0.27	0.80	1.77	*300/100*								
2	**ANE7-P20**	0.54	0.31	0.96	2.17	*150/50*								

PA6.6 | Cu-ETP | Brazed SEAM | EASY ENTRY | ANNEALED | 3µm TIN PLATED | -20°C +115°C | INDENT | RADIAL

ANE-P series terminals are made from electrolytic Copper with a purity greater than 99.9%, rolled, Tin plated and brazed.
The interior of the Nylon insulated sleeve is funnel shaped so as to ensure complete and easy introduction of the conductor strands.
The operating temperature range is –4 to +239°F (Surge + 266°F).

In order to achieve the best electrical and mechanical performance it is suggested that they are crimped using dies and tools specifically developed for this purpose by Cembre.
Details of the appropriate crimping tools and dies are shown on pages 292 to 293.

CEMBRE

UNINSULATED TERMINALS

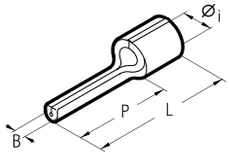
S range - brazed seam - for Copper conductors

Cu-ETP | Brazed SEAM | ANNEALED | 3µm TIN PLATED | -58°F +302°F | INDENT

S range terminals are manufactured from electrolytic Copper strip with a purity greater than 99.9% and Tin plated.

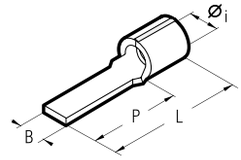
The seam is brazed to provide uniform mechanical strength.
The terminal barrel is rifled to enhance electrical contact and to improve mechanical strength.
Recommended crimping tools are shown on pages 136 to 163, 242.

pin terminals



Conductor Size AWG (sqmm)	Type	Dimensions in.				Quantity Box/Bag
		Øi	B	P	L	
22÷16 (0.25÷1.5)	**S1.5-P8**	0.07	0.06	0.31	0.47	*8,000/100*
	S1.5-P10	0.07	0.06	0.39	0.55	*8,000/100*
	S1.5-P12	0.07	0.06	0.47	0.64	*8,000/100*
16÷14 (1.5÷2.5)	**S2.5-P8**	0.09	0.06	0.31	0.47	*7,000/100*
	S2.5-P10	0.09	0.06	0.39	0.55	*7,000/100*
	S2.5-P12	0.09	0.06	0.47	0.63	*7,000/100*
12÷10 (4÷6)	**S6-P10**	0.14	0.09	0.39	0.66	*4,000/100*
	S6-P12	0.14	0.09	0.47	0.76	*4,000/100*
	S6-P14	0.14	0.09	0.55	0.83	*3,500/100*

blade terminals

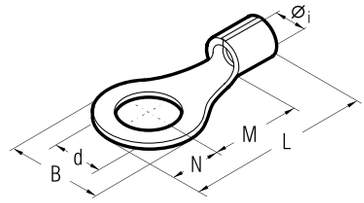


Conductor Size AWG (sqmm)	Type	Dimensions in.				Quantity Box/Bag
		Øi	B	P	L	
22÷16 (0.25÷1.5)	**S1.5-PP12**	0.07	0.12	0.50	0.67	*8,000/100*
	S1.5-PP12/1*	0.07	0.12	0.44	0.61	*8,000/100*
	S1.5-PP12/19	0.07	0.07	0.52	0.69	*8,000/100*
	S1.5-PP14	0.07	0.12	0.58	0.75	*8,000/100*
16÷14 (1.5÷2.5)	**S2.5-PP12**	0.09	0.14	0.50	0.67	*7,000/100*
	S2.5-PP12/25	0.09	0.10	0.52	0.69	*7,000/100*
	S2.5-PP16/25	0.09	0.10	0.68	0.84	*7,000/100*
12÷10 (4÷6)	**S6-PP12**	0.14	0.16	0.52	0.78	*4,000/100*
	S6-PP17	0.14	0.11	0.75	1.00	*4,000/100*

**Made to order*

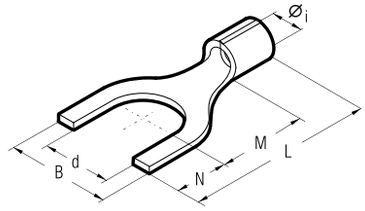
S range - brazed seam - for Copper conductors

ring terminals



Conductor Size AWG (sqmm)	Ø Stud in.	Type	Dimensions in.						Quantity Box/Bag
			Øi	B	M	N	L	d	
22÷16 (0.25÷1.5)	#3	S1.5-M2*	0.07	0.22	0.18	0.11	0.45	0.09	7,000/100
	#4	S1.5-M3	0.07	0.22	0.18	0.11	0.45	0.13	7,000/100
	#6	S1.5-M3.5	0.07	0.22	0.18	0.11	0.45	0.15	7,000/100
	#6	S1.5-M3.5/1*	0.07	0.24	0.28	0.12	0.57	0.15	7,000/100
	#8	S1.5-M4	0.07	0.28	0.26	0.14	0.56	0.17	7,000/100
	#8	S1.5-M4/3*	0.07	0.31	0.28	0.15	0.60	0.17	7,000/100
	#10	S1.5-M5	0.07	0.31	0.28	0.15	0.60	0.21	7,000/100
	1/4"	S1.5-M6	0.07	0.37	0.32	0.19	0.67	0.25	6,000/100
	1/4"	S1.5-M6/1	0.07	0.47	0.41	0.24	0.81	0.25	5,000/100
	17/64"	S1.5-M7	0.07	0.37	0.32	0.19	0.67	0.28	6,000/100
	5/16"	S1.5-M8	0.07	0.47	0.41	0.24	0.81	0.33	4,000/100
	3/8"	S1.5-M10	0.07	0.61	0.51	0.30	0.98	0.41	3,000/100
	1/2"	S1.5-M12	0.07	0.71	0.61	0.35	1.13	0.51	2,000/100
16÷14 (1.5÷2.5)	#4	S2.5-M3	0.09	0.22	0.20	0.11	0.47	0.13	6,000/100
	#6	S2.5-M3.5	0.09	0.22	0.20	0.11	0.47	0.15	6,000/100
	#6	S2.5-M3.5/1*	0.09	0.24	0.26	0.12	0.54	0.15	5,000/100
	#8	S2.5-M4	0.09	0.31	0.26	0.16	0.58	0.17	5,000/100
	#10	S2.5-M5	0.09	0.31	0.30	0.16	0.62	0.21	5,000/100
	1/4"	S2.5-M6	0.09	0.37	0.34	0.19	0.69	0.25	5,000/100
	1/4"	S2.5-M6/1	0.09	0.47	0.41	0.24	0.81	0.25	5,000/100
	17/64"	S2.5-M7	0.09	0.39	0.31	0.20	0.67	0.28	5,000/100
	5/16"	S2.5-M8	0.09	0.47	0.41	0.24	0.81	0.33	4,000/100
	3/8"	S2.5-M10	0.09	0.61	0.51	0.30	0.98	0.41	2,500/100
	1/2"	S2.5-M12	0.09	0.71	0.61	0.35	1.13	0.51	2,000/100
12÷10 (4÷6)	#4	S6-M3	0.14	0.31	0.32	0.16	0.73	0.13	3,000/100
	#6	S6-M3.5	0.14	0.31	0.32	0.16	0.73	0.15	3,000/100
	#8	S6-M4	0.14	0.35	0.32	0.18	0.75	0.17	3,000/100
	#10	S6-M5	0.14	0.35	0.32	0.18	0.75	0.21	2,500/100
	1/4"	S6-M6	0.14	0.43	0.44	0.22	0.91	0.25	2,500/100
	1/4"	S6-M6/1*	0.14	0.43	0.32	0.22	0.79	0.25	2,500/100
	17/64"	S6-M7	0.14	0.43	0.44	0.22	0.91	0.28	2,500/100
	5/16"	S6-M8	0.14	0.54	0.48	0.27	1.00	0.33	2,000/100
	3/8"	S6-M8/1*	0.14	0.43	0.32	0.22	0.79	0.33	2,500/100
	3/8"	S6-M10	0.14	0.54	0.48	0.27	1.00	0.41	2,000/100
	3/8"	S6-M10/1	0.14	0.61	0.54	0.30	1.10	0.41	2,000/100
	1/2"	S6-M12	0.14	0.75	0.59	0.37	1.22	0.51	1,000/100
	9/16"	S6-M14	0.14	0.83	0.63	0.41	1.30	0.59	1,000/100
	5/8"	S6-M16	0.14	0.94	0.67	0.47	1.40	0.67	1,000/100
10 (8)	#8	S10-M4	0.19	0.45	0.35	0.23	0.94	0.17	2,000/100
	#10	S10-M5	0.19	0.45	0.35	0.23	0.94	0.21	2,000/100
	1/4"	S10-M6	0.19	0.45	0.35	0.23	0.94	0.25	2,000/100
	17/64"	S10-M7	0.19	0.45	0.35	0.23	0.94	0.28	1,500/100

fork/spade terminals



Conductor Size AWG (sqmm)	Ø Stud in.	Type	Dimensions in.						Quantity Box/Bag
			Øi	B	M	N	L	d	
22÷16 (0.25÷1.5)	#4	S1.5-U3	0.07	0.22	0.22	0.16	0.54	0.13	7,000/100
	#6	S1.5-U3.5	0.07	0.24	0.26	0.15	0.57	0.15	7,000/100
	#6	S1.5-U3.5/2*	0.07	0.25	0.26	0.15	0.57	0.15	7,000/100
	#8	S1.5-U4	0.07	0.26	0.30	0.15	0.61	0.17	7,000/100
	#8	S1.5-U4/1*	0.07	0.33	0.30	0.15	0.61	0.17	7,000/100
	#8	S1.5-U4/2	0.07	0.30	0.30	0.15	0.61	0.17	7,000/100
	#10	S1.5-U5	0.07	0.33	0.30	0.15	0.61	0.21	7,000/100
	#10	S1.5-U5/1	0.07	0.37	0.30	0.15	0.61	0.21	7,000/100
	1/4"	S1.5-U6	0.07	0.37	0.32	0.19	0.67	0.25	6,000/100
	1/4"	S1.5-U6/1*	0.07	0.47	0.36	0.28	0.81	0.25	6,000/100
	5/16"	S1.5-U8	0.07	0.55	0.39	0.25	0.81	0.33	3,000/100
	3/8"	S1.5-U10	0.07	0.69	0.51	0.30	0.98	0.41	2,500/100
	1/2"	S1.5-U12	0.07	0.79	0.61	0.35	1.13	0.51	2,000/100
16÷14 (1.5÷2.5)	#4	S2.5-U3	0.09	0.22	0.22	0.16	0.54	0.13	6,000/100
	#6	S2.5-U3.5	0.09	0.25	0.26	0.15	0.57	0.15	6,000/100
	#6	S2.5-U3.5/1*	0.09	0.28	0.26	0.15	0.57	0.15	6,000/100
	#8	S2.5-U4	0.09	0.26	0.30	0.15	0.61	0.17	5,000/100
	#8	S2.5-U4/1*	0.09	0.33	0.30	0.15	0.61	0.17	6,000/100
	#8	S2.5-U4/2*	0.09	0.30	0.30	0.15	0.61	0.17	6,000/100
	#10	S2.5-U5	0.09	0.33	0.30	0.15	0.61	0.21	6,000/100
	1/4"	S2.5-U6	0.09	0.37	0.32	0.19	0.67	0.25	5,000/100
	1/4"	S2.5-U6/1*	0.09	0.47	0.36	0.28	0.81	0.25	4,000/100
	5/16"	S2.5-U8	0.09	0.55	0.39	0.25	0.81	0.33	2,500/100
	3/8"	S2.5-U10	0.09	0.69	0.51	0.30	0.98	0.41	2,000/100
	1/2"	S2.5-U12	0.09	0.79	0.61	0.35	1.13	0.51	2,000/100
12÷10 (4÷6)	#6	S6-U3.5	0.14	0.30	0.33	0.15	0.74	0.15	3,000/100
	#8	S6-U4	0.14	0.30	0.31	0.17	0.74	0.17	3,000/100
	#10	S6-U5	0.14	0.37	0.31	0.17	0.74	0.21	2,500/100
	1/4"	S6-U6	0.14	0.39	0.43	0.22	0.90	0.25	2,500/100
	5/16"	S6-U8	0.14	0.53	0.47	0.31	1.04	0.33	2,000/100
	3/8"	S6-U10	0.14	0.61	0.51	0.31	1.08	0.41	2,000/100
	3/8"	S6-U10/1*	0.14	0.69	0.54	0.30	1.10	0.41	2,000/100
	1/2"	S6-U12	0.14	0.83	0.59	0.37	1.22	0.51	1,000/100
	9/16"	S6-U14	0.14	0.91	0.63	0.41	1.30	0.59	1,000/100
	5/8"	S6-U16*	0.14	1.02	0.67	0.45	1.38	0.67	1,000/100

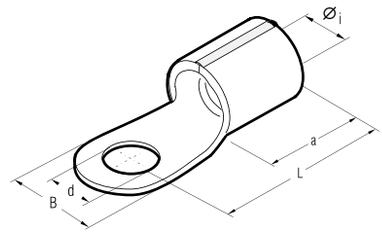
*Made to order

Q

CRIMPING CONNECTORS ACCORDING TO DIN 46234

for Copper conductors

Cu-ETP | Brazed SEAM | ANNEALED | 3µm TIN PLATED | -58°F +302°F | INDENT



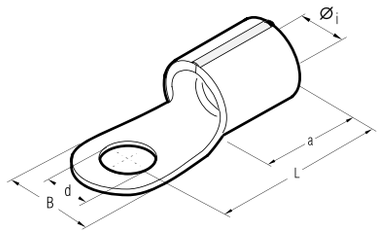
Q type connectors are manufactured from electrolytic Copper strip with a purity greater than 99.9%, annealed and surface protected by tin plating; dimensions are compliant with DIN 46234; the sleeve is brazed with a silver-Copper alloy.
Details of the conductor csa and stud diameter are engraved on the palm.
Details of the appropriate crimping tools and dies are shown on page 294-295.

Consult us for special requirements.

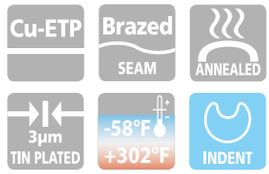
Conductor Size AWG	Ø Stud in.	Type	Dimensions in. Øi	d	L	B	a	Quantity Box/Bag	Mechanical Tools	Hydraulic Tools
10÷8	#8	**Q10-4**	0.18	0.17	0.63	0.39	0.31	*1,500/100*	HN5	HT51 RH50 B500A B500NDA B550CA HT81-U RHU81 / B1300L-CA and similar tools for U dies / ECW-H3D
	#10	**Q10-5**	0.18	0.21	0.63	0.39	0.31	*1,500/100*		
	1/4"	**Q10-6**	0.18	0.26	0.67	0.43	0.31	*1,000/100*		
	5/16"	**Q10-8**	0.18	0.33	0.79	0.55	0.31	*1,000/100*		
	3/8"	**Q10-10**	0.18	0.41	0.83	0.71	0.31	*1,000/100*		
	1/2"	**Q10-12**	0.18	0.51	0.87	0.87	0.31	*500/100*		
8÷6	#10	**Q16-5**	0.23	0.21	0.79	0.43	0.39	*1,000/100*		
	1/4"	**Q16-6**	0.23	0.26	0.79	0.43	0.39	*1,000/100*		
	5/16"	**Q16-8**	0.23	0.33	0.87	0.55	0.39	*500/100*		
	3/8"	**Q16-10**	0.23	0.41	0.94	0.71	0.39	*500/100*		
	1/2"	**Q16-12**	0.23	0.51	1.02	0.87	0.39	*500/100*		
6÷4	#10	**Q25-5**	0.30	0.21	0.98	0.47	0.43	*500/100*		
	1/4"	**Q25-6**	0.30	0.26	0.98	0.47	0.43	*500/100*		
	5/16"	**Q25-8**	0.30	0.33	0.98	0.63	0.43	*500/100*		
	3/8"	**Q25-10**	0.30	0.41	1.02	0.71	0.43	*500/100*		
	1/2"	**Q25-12**	0.30	0.51	1.22	0.87	0.43	*500/100*		
	5/8"	**Q25-16**	0.30	0.67	1.38	1.10	0.43	*200/100*		
4÷2	1/4"	**Q35-6**	0.35	0.26	1.02	0.59	0.47	*400/100*		
	5/16"	**Q35-8**	0.35	0.33	1.02	0.63	0.47	*400/100*		
	3/8"	**Q35-10**	0.35	0.41	1.06	0.71	0.47	*300/100*		
	1/2"	**Q35-12**	0.35	0.51	1.22	0.87	0.47	*250/50*		
	5/8"	**Q35-16**	0.35	0.67	1.42	1.10	0.47	*200/50*		
2÷1/0	1/4"	**Q50-6**	0.43	0.26	1.34	0.71	0.63	*200/50*		
	5/16"	**Q50-8**	0.43	0.33	1.34	0.71	0.63	*200/50*		
	3/8"	**Q50-10**	0.43	0.41	1.34	0.71	0.63	*200/50*		
	1/2"	**Q50-12**	0.43	0.51	1.42	0.87	0.63	*200/50*		
	5/8"	**Q50-16**	0.43	0.67	1.57	1.10	0.63	*200/50*		
1/0 2/0	1/4"	**Q70-6**	0.51	0.26	1.50	0.87	0.71	*100/50*		
	5/16"	**Q70-8**	0.51	0.33	1.50	0.87	0.71	*100/50*		
	3/8"	**Q70-10**	0.51	0.41	1.50	0.87	0.71	*100/50*		
	1/2"	**Q70-12**	0.51	0.51	1.50	0.87	0.71	*100/50*		
	5/8"	**Q70-16**	0.51	0.67	1.65	1.10	0.71	*100/50*		
2/0 3/0	5/16"	**Q95-8**	0.59	0.33	1.65	0.94	0.79	*100/25*		
	3/8"	**Q95-10**	0.59	0.41	1.65	0.94	0.79	*100/25*		
	1/2"	**Q95-12**	0.59	0.51	1.73	0.94	0.79	*100/25*		
	5/8"	**Q95-16**	0.59	0.67	2.76	1.10	0.79	*100/25*		

CRIMPING CONNECTORS ACCORDING TO DIN 46234

for Copper conductors



Conductor Size AWG	Ø Stud in.	Type	Dimensions in.					Quantity Box/Bag	Hydraulic Tools	
			Øi	d	L	B	a			
	5/16"	**Q120-8**	0.65	0.33	1.73	0.94	0.87	*100/25*	B1300L-CA and similar tools for U dies	ECW-H3D
3/0	3/8"	**Q120-10**	0.65	0.41	1.73	0.94	0.87	*100/25*		
250	1/2"	**Q120-12**	0.65	0.51	1.73	0.94	0.87	*100/25*		
	5/8"	**Q120-16**	0.65	0.67	1.89	1.10	0.87	*50/25*		
250	3/8"	**Q150-10**	0.75	0.41	1.97	1.18	0.94	*50/25*		
300	1/2"	**Q150-12**	0.75	0.51	1.97	1.18	0.94	*50/25*		
MCM	5/8"	**Q150-16**	0.75	0.67	1.97	1.18	0.94	*50/25*		
300	3/8"	**Q185-10**	0.83	0.41	1.97	1.42	1.10	*40/20*		
350	1/2"	**Q185-12**	0.83	0.51	1.97	1.42	1.10	*40/20*		
MCM	5/8"	**Q185-16**	0.83	0.67	1.97	1.42	1.10	*30/15*		
350	3/8"	**Q240-10**	0.93	0.41	2.20	1.50	1.26	*10/10*		
500	1/2"	**Q240-12**	0.93	0.51	2.20	1.50	1.26	*10/10*		
MCM	5/8"	**Q240-16**	0.93	0.67	2.20	1.50	1.26	*10/10*		



Consult us for special requirements.

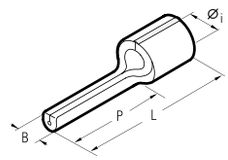
Consult us for further information.

CEMBRE

A-PR

UNINSULATED ROUND PIN CONNECTORS

for Copper conductors



Cu-ETP | Brazed SEAM | ANNEALED | 3µm TIN PLATED | -58°F +302°F | INDENT | HEXAGONAL

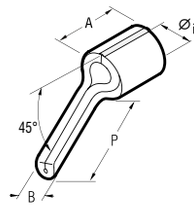
Conductor Size AWG	Type	Dimensions in. Øi	B	P	L	Quantity Box/Bag	Mechanical Tools HN1	HN5	HN-A25	TN70SEY	TN120SEY	B15MA	Hydraulic Tools HT45-E B450ND-BVA	HT51 RH50 B500A B500NDA B550CA	B1300L-CA and similar tools for U dies	ECW-H3D
6	**A3-P22R**	0.23	0.16	0.87	1.26	*1,000/100*										
4	**A5-P22R**	0.28	0.16	0.87	1.33	*500/100*										

A-PR series pin connectors are designed to terminate conductors into contact blocks. They are manufactured from Copper strip with a purity greater than 99.9%, rolled, brazed and Tin plated.
Details of the appropriate crimping tools and dies are shown on pages 288 to 289.

A-PR/45

UNINSULATED ROUND PIN CONNECTORS ANGLED 45°

for Copper conductors



Cu-ETP | Brazed SEAM | ANGLED 45° | ANNEALED | 3µm TIN PLATED | -58°F +302°F | INDENT | HEXAGONAL

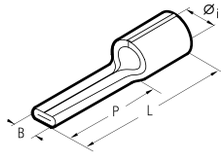
Conductor Size AWG	Type	Dimensions in. Øi	B	P	A	Quantity Box/Bag	Mechanical Tools HN1	HN5	HN-A25	TN70SEY	TN120SEY	B15MA	Hydraulic Tools HT45-E B450ND-BVA	HT51 RH50 B500A B500NDA B550CA	B1300L-CA and similar tools for U dies	ECW-H3D
6	**A3-P22R/45**	0.23	0.16	0.87	0.39	*1,000/100*										
4	**A5-P22R/45**	0.28	0.16	0.87	0.46	*500/100*										

A-PR/45 series pin connectors are designed to terminate conductors into contact blocks.
They are manufactured from Copper strip with a purity greater than 99.9%, rolled, brazed and Tin plated.
Details of the appropriate crimping tools and dies are shown on pages 288 to 289.

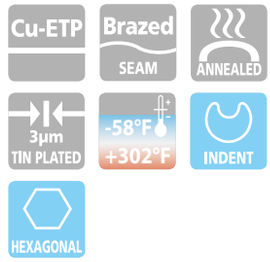
UNINSULATED PIN CONNECTORS

for Copper conductors

A-P



Conductor Size AWG	Type	Dimensions in. Øi	B	P	L	Quantity Box/Bag	Mechanical Tools HN1	HN5	HN-A25	TN70SEY	TN120SEY	Hydraulic Tools B15MA	HT45-E B450ND-BVA	HT51 B500A RH50 B500NDA B550CA	B1300L-CA and similar tools for U dies	ECW-H3D
8	**A2-P12**	0.19	0.17	0.57	0.93	*1,500/100*										
6	**A3-P14**	0.23	0.22	0.71	1.10	*1,000/100*										
4	**A5-P16**	0.28	0.28	0.80	1.26	*500/100*										
2	**A7-P20**	0.35	0.31	0.96	1.54	*500/100*										
2-1/0	**A10-P25**	0.39	0.37	1.02	1.77	*250/50*										
1/0-2/0	**A14-P30**	0.45	0.43	1.22	2.17	*200/50*										



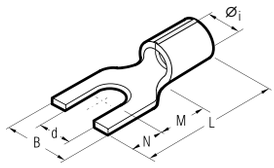
A-P series pin connectors are designed to terminate conductors into contact blocks. They are manufactured from Copper strip with a purity greater than 99.9%, rolled, brazed and Tin plated.

Details of the appropriate crimping tools and dies are shown on pages 288 to 289.

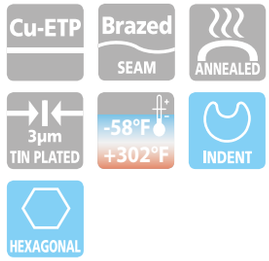
UNINSULATED FORK TERMINALS

for Copper conductors

A-U



Conductor Size AWG	Ø Stud in.	Type	Dimensions in. Øi	B	M	N	L	d	Quantity Box/Bag	Mechanical Tools HNN1	HNN5	TN70SEY	TN120SEY	Hydraulic Tools B15MA	HT45-E B450ND-BVA	HT51 B500A RH50 B500NDA B550CA	B1300L-CA and similar tools for U dies	ECW-H3D
8	#8	**A2-U4**	0.19	0.39	0.30	0.28	0.93	0.17	*1,500/100*									
	#10	**A2-U5**	0.19	0.45	0.30	0.28	0.93	0.21	*1,500/100*									
6	#8	**A3-U4**	0.23	0.39	0.39	0.31	1.10	0.17	*1,000/100*									
	#10	**A3-U5**	0.23	0.45	0.39	0.31	1.10	0.21	*1,000/100*									



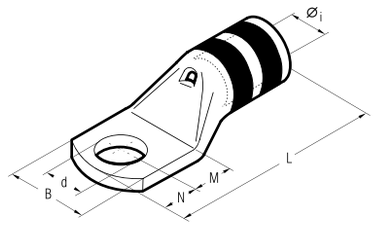
A-U series fork terminals are designed to terminate conductors into contact blocks.
Made from electrolytic Copper strip with a purity greater than 99.9%, rolled and Tin plated.

The seam is brazed to provide uniform mechanical strength.
The terminal barrel is rifled to enhance electrical contact and to improve mechanical strength.
Recommended crimping tools are shown on pages 288 to 289.

CEMBRE

COLOR CODED COPPER CRIMPING LUGS

for Copper conductors



c UL us
File no. E125401

C series lugs are manufactured from electrolytic Copper tube with a purity greater than 99.9%.
The dimensions of the tube are designed to obtain the most efficient electrical conductivity and mechanical strength to resist vibration and pull out.
Cembre lugs are annealed to guarantee optimum ductility, an absolute necessity for connectors which will have to withstand the severe deformation arising when compressed and any bending of the palm during installation.
In applications subject to vibration, terminals have to perform a reliable connection, the annealing process plays a vital role in avoiding cracking or breaks between the barrel and palm.
The presence of an inspection hole facilitates full insertion of the conductor. The barrel length has been designed to allow easy and accurate positioning of the dies during the crimping operation.
Lugs are electrolytically Tin plated to avoid oxidation.
The tongue is clearly marked with wire size and die index for Cembre tools.
UL listed for US and Canada per UL486A up to 35 KV.
C series lugs are an important part of Cembre crimping systems for power carrying conductors.

Details of the appropriate crimping tools and dies are shown on page 286.

Cembre technicians are available to provide technical advice as required.
Please consult Cembre for products not listed.

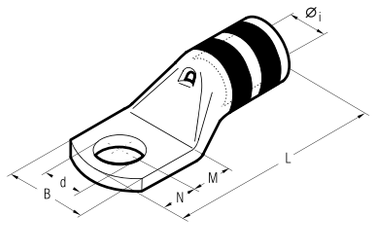
Conductor AWG		Ø Stud in.	Type	Dimensions in.						Color Code	Quantity Box/Bag	Mechanical Tools		Hydraulic Tools												
Size	Navy			Øi	B	M	N	L	d					B15MA	HT51	RH50	B500A	B500NDA	B550CA	B1300L-CA and similar tools for U dies	ECW-H3D	RHU520
8	23	# 8	C8-8	0.18	0.39	0.20	0.16	0.89	0.17	RED	600/50	TN70SEY	TN120SEY									
		# 10	C8-10	0.18	0.39	0.26	0.24	1.02	0.21		600/50											
		1/4	C8-14	0.18	0.43	0.28	0.24	1.04	0.25		600/50											
		5/16	C8-516	0.18	0.59	0.35	0.31	1.20	0.33		400/50											
		3/8	C8-38	0.18	0.71	0.43	0.39	1.36	0.41		600/50											
		1/2	C8-12	0.18	0.75	0.55	0.47	1.56	0.52		600/50											
6		# 8	C6-8	0.23	0.45	0.20	0.16	1.00	0.17	BLUE	600/50											
		# 10	C6-10	0.23	0.45	0.26	0.24	1.14	0.21		600/50											
		1/4	C6-14	0.23	0.45	0.28	0.24	1.16	0.25		600/50											
		5/16	C6-516	0.23	0.59	0.35	0.31	1.32	0.33		600/50											
		3/8	C6-38	0.23	0.71	0.43	0.39	1.48	0.41		600/50											
		1/2	C6-12	0.23	0.79	0.55	0.47	1.71	0.52		400/50											
4	40	# 8	C4-8	0.24	0.49	0.20	0.16	1.10	0.17	GREY	600/50											
		# 10	C4-10	0.24	0.49	0.26	0.24	1.24	0.21		600/50											
		1/4	C4-14	0.24	0.49	0.28	0.24	1.26	0.25		600/50											
		5/16	C4-516	0.24	0.59	0.35	0.31	1.42	0.33		600/50											
		3/8	C4-38	0.24	0.71	0.43	0.39	1.57	0.41		400/50											
		1/2	C4-12	0.24	0.79	0.55	0.47	1.77	0.52		400/50											
3	50	# 8	C3-8	0.28	0.55	0.20	0.16	1.10	0.17	WHITE	600/50											
		# 10	C3-10	0.28	0.55	0.26	0.24	1.24	0.21		600/50											
		1/4	C3-14	0.28	0.55	0.28	0.24	1.26	0.25		600/50											
		5/16	C3-516	0.28	0.59	0.35	0.31	1.42	0.33		600/50											
		3/8	C3-38	0.28	0.71	0.43	0.39	1.57	0.41		400/50											
		1/2	C3-12	0.28	0.83	0.55	0.47	1.77	0.52		400/50											
2	60	# 10	C2-10	0.30	0.67	0.26	0.24	1.30	0.21	BROWN	400/50											
		1/4	C2-14	0.30	0.67	0.28	0.24	1.32	0.25		400/50											
		5/16	C2-516	0.30	0.67	0.35	0.31	1.48	0.33		400/50											
		3/8	C2-38	0.30	0.75	0.43	0.39	1.63	0.41		400/50											
		1/2	C2-12	0.30	0.83	0.55	0.47	1.83	0.52		200/50											
1	75	1/4	C1-14	0.35	0.67	0.28	0.24	1.36	0.25	GREEN	400/50											
		5/16	C1-516	0.35	0.67	0.35	0.31	1.52	0.33		400/50											
		3/8	C1-38	0.35	0.75	0.43	0.39	1.67	0.41		200/50											
		1/2	C1-12	0.35	0.83	0.55	0.47	1.87	0.52		200/50											
1/0	100	1/4	C1/0-14	0.39	0.75	0.31	0.28	1.59	0.25	PINK	200/25											
		5/16	C1/0-516	0.39	0.75	0.35	0.31	1.67	0.33		200/25											
		3/8	C1/0-38	0.39	0.79	0.43	0.39	1.83	0.41		200/25											
		1/2	C1/0-12	0.39	0.83	0.55	0.47	2.03	0.52		200/25											
		9/16	C1/0-916	0.39	0.98	0.63	0.55	2.19	0.59		200/25											
		5/8	C1/0-58	0.39	1.02	0.71	0.63	2.34	0.67		200/25											
2/0	125	1/4	C2/0-14	0.44	0.83	0.31	0.28	1.73	0.25	BLACK	200/25											
		5/16	C2/0-516	0.44	0.83	0.35	0.31	1.81	0.33		200/25											
		3/8	C2/0-38	0.44	0.83	0.43	0.39	1.97	0.41		200/25											
		1/2	C2/0-12	0.44	0.87	0.55	0.47	2.17	0.52		200/25											
		9/16	C2/0-916	0.44	0.98	0.63	0.55	2.32	0.59		100/25											
		5/8	C2/0-58	0.44	1.02	0.71	0.63	2.48	0.67		100/25											
		3/4	C2/0-34	0.44	1.16	0.87	0.79	2.79	0.83		100/25											
3/0	150	1/4	C3/0-14	0.49	0.91	0.31	0.28	1.77	0.25	ORANGE	200/25											
		5/16	C3/0-516	0.49	0.91	0.35	0.31	1.85	0.33		100/25											
		3/8	C3/0-38	0.49	0.91	0.43	0.39	2.01	0.41		100/25											
		1/2	C3/0-12	0.49	0.94	0.55	0.47	2.20	0.52		100/25											
		9/16	C3/0-916	0.49	1.06	0.63	0.55	2.36	0.59		100/25											
		5/8	C3/0-58	0.49	1.10	0.71	0.63	2.52	0.67		100/25											
		3/4	C3/0-34	0.49	1.24	0.87	0.79	2.83	0.83		100/25											

COLOR CODED COPPER CRIMPING LUGS

C

for Copper conductors

c UL us
File no. E125401



Sez. Cond. AWG		Ø Stud in.	Type	Dimensions in.						Color Code	Quantity Box/Bag	Mechanical Tools	Hydraulic Tools				
Size	Navy			Øi	B	M	N	L	d								
4/0	200	1/4	**C4/0-14**	0.53	0.98	0.31	0.28	1.99	0.25	PURPLE	100/25	TN120SEY	B550CA	B500NDA	B500A	HT51	RH50
		5/16	**C4/0-516**	0.53	0.98	0.35	0.31	2.07	0.33		100/25						
		3/8	**C4/0-38**	0.53	0.98	0.43	0.39	2.22	0.41		100/25						
		1/2	**C4/0-12**	0.53	0.98	0.55	0.47	2.42	0.52		100/25						
		9/16	**C4/0-916**	0.53	0.98	0.63	0.55	2.58	0.59		100/25						
		5/8	**C4/0-58**	0.53	1.06	0.71	0.63	2.74	0.67		50/25						
		3/4	**C4/0-34**	0.53	1.16	0.87	0.79	3.05	0.83		50/25						
250 MCM	250	1/4	**C250-14**	0.60	1.12	0.31	0.28	2.05	0.25	YELLOW	100/25						
		5/16	**C250-516**	0.60	1.12	0.35	0.31	2.13	0.33		100/25						
		3/8	**C250-38**	0.60	1.12	0.43	0.39	2.28	0.41		100/25						
		1/2	**C250-12**	0.60	1.12	0.55	0.47	2.48	0.52		50/25						
		9/16	**C250-916**	0.60	1.12	0.63	0.55	2.64	0.59		50/25						
		5/8	**C250-58**	0.60	1.12	0.71	0.63	2.80	0.67		50/25						
		3/4	**C250-34**	0.60	1.18	0.87	0.79	3.11	0.83		50/25						
		7/8	**C250-78**	0.60	1.26	0.94	0.91	3.39	0.91		50/25						
300 MCM	300	5/16	**C300-516**	0.66	1.24	0.51	0.43	2.72	0.33	WHITE	40/10						
		3/8	**C300-38**	0.66	1.24	0.51	0.43	2.72	0.41		40/10						
		1/2	**C300-12**	0.66	1.24	0.63	0.55	2.95	0.52		40/10						
		9/16	**C300-916**	0.66	1.24	0.71	0.63	3.11	0.59		40/10						
		5/8	**C300-58**	0.66	1.24	0.75	0.67	3.19	0.67		40/10						
		3/4	**C300-34**	0.66	1.24	0.87	0.79	3.43	0.83		40/10						
		7/8	**C300-78**	0.66	1.24	0.94	0.91	3.62	0.91		40/10						
350 MCM	350	3/8	**C350-38**	0.69	1.30	0.51	0.43	2.78	0.41	RED	40/20						
		1/2	**C350-12**	0.69	1.30	0.63	0.55	3.01	0.52		40/20						
		9/16	**C350-916**	0.69	1.30	0.71	0.63	3.17	0.59		40/20						
		5/8	**C350-58**	0.69	1.30	0.75	0.67	3.25	0.67		40/20						
		3/4	**C350-34**	0.69	1.30	0.87	0.79	3.48	0.83		40/20						
		7/8	**C350-78**	0.69	1.46	0.94	0.91	3.68	0.91		30/15						
400 MCM	400	3/8	**C400-38**	0.76	1.40	0.51	0.43	2.99	0.41	BLUE	40/20						
		1/2	**C400-12**	0.76	1.40	0.63	0.55	3.23	0.52		40/20						
		9/16	**C400-916**	0.76	1.40	0.71	0.63	3.39	0.59		40/20						
		5/8	**C400-58**	0.76	1.40	0.75	0.67	3.46	0.67		40/20						
		3/4	**C400-34**	0.76	1.40	0.87	0.79	3.70	0.83		40/20						
		7/8	**C400-78**	0.76	1.40	0.94	0.91	3.90	0.91		40/20						
500 MCM		3/8	**C500-38**	0.83	1.54	0.51	0.43	3.23	0.41	BROWN	30/15						
		1/2	**C500-12**	0.83	1.54	0.63	0.55	3.46	0.52		30/15						
		9/16	**C500-916**	0.83	1.54	0.71	0.63	3.62	0.59		30/15						
		5/8	**C500-58**	0.83	1.54	0.75	0.67	3.70	0.67		30/15						
		3/4	**C500-34**	0.83	1.54	0.87	0.79	3.94	0.83		20/10						
		7/8	**C500-78**	0.83	1.54	0.94	0.91	4.13	0.91		20/10						
600 MCM		1/2	**C600-12**	0.93	1.73	0.79	0.55	3.90	0.52	GREEN	20/10						
		9/16	**C600-916**	0.93	1.73	0.87	0.63	4.06	0.59		20/10						
		5/8	**C600-58**	0.93	1.73	0.87	0.75	4.17	0.67		20/10						
		3/4	**C600-34**	0.93	1.73	0.94	0.91	4.41	0.83		10/5						
		7/8	**C600-78**	0.93	1.73	0.94	0.91	4.41	0.91		10/5						
750 MCM		1/2	**C750-12**	1.02	1.89	0.87	0.75	4.45	0.52	BLACK	10/5						
		5/8	**C750-58**	1.02	1.89	0.87	0.75	4.45	0.67		10/5						
		3/4	**C750-34**	1.02	1.89	0.94	0.91	4.69	0.83		10/5						
		7/8	**C750-78**	1.02	1.89	0.94	0.91	4.69	0.91		10/5						

Hydraulic Tools			
B1300L-CA and similar tools for U dies	ECW-H3D	RHU520	

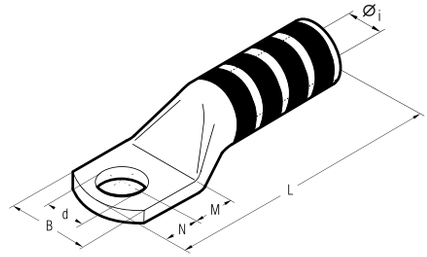
Cu · FUNNEL ENTRY · ANNEALED · 3µm TIN PLATED · COLOR CODED · -58°F +302°F · SEMICIRCULAR

CEMBRE

CL

COLOR CODED COPPER CRIMPING LUGS

one hole long barrel - for Copper conductors



File no. E125401

Cu · FUNNEL ENTRY · ANNEALED · 3µm TIN PLATED · COLOR CODED · -58°F +302°F · SEMICIRCULAR

CL series lugs are manufactured from electrolytic Copper tube with a purity greater than 99.9%, for use in heavy duty applications.
The dimensions of the tube are designed to obtain the most efficient electrical conductivity and mechanical strength to resist vibration and pull out.
Cembre lugs are annealed to guarantee optimum ductility which is an absolute necessity for connectors which will have to withstand the severe deformation arising when compressed and any bending of the palm during installation.
In applications subject to vibration, terminals have to perform a reliable connection, the annealing process plays a vital role in avoiding cracking or breaks between the barrel and palm.
The long barrel provides better mechanical pull-out strenght.
Lugs are electrolytically Tin plated to avoid oxidation.
The tongue is clearly marked with wire size and die index for Cembre tools.
UL listed for US and Canada per UL486A up to 35 KV.
CL series lugs are an important part of Cembre crimping systems for power carrying conductors.

Details of the appropriate crimping tools and dies are shown on page 286.

Cembre technicians are available to provide technical advice as required. Please consult Cembre for products not listed.

Conductor AWG		Ø Stud in.	Type	Dimensions in.						Color Code	Quantity Box/Bag	Mechanical Tools		Hydraulic Tools								
Size	Navy			Øi	B	M	N	L	d			TN70SEY	TN120SEY	B15MA	HT51	RH50	B500A	B500NDA	B550CA	B1300L-CA and similar tools for U dies	ECW-H3D	RHU520
8	23	# 10	CL8-10	0.18	0.39	0.25	0.23	1.47	0.20	RED	400/50	●	●	●	●	●	●	●	●	●	●	●
		1/4	CL8-14	0.18	0.43	0.27	0.23	1.49	0.25		400/50											
		3/8	CL8-38	0.18	0.70	0.43	0.39	1.81	0.41		400/50											
6		# 10	CL6-10	0.22	0.45	0.25	0.23	1.57	0.20	BLUE	400/50											
		1/4	CL6-14	0.22	0.45	0.27	0.23	1.59	0.25		400/50											
		1/2	CL6-12	0.22	0.78	0.55	0.47	2.10	0.51		400/50											
4	40	# 10	CL4-10	0.24	0.49	0.25	0.23	1.85	0.20	GREY	400/50											
		1/4	CL4-14	0.24	0.49	0.27	0.23	1.87	0.25		400/50											
		3/8	CL4-38	0.24	0.70	0.43	0.39	2.18	0.41		400/50											
		1/2	CL4-12	0.24	0.78	0.55	0.47	2.38	0.51		400/50											
3	50	1/4	CL3-14	0.27	0.55	0.27	0.23	1.87	0.25	WHITE	200/100											
		5/16	CL3-516	0.27	0.59	0.35	0.31	2.02	0.33		200/100											
		3/8	CL3-38	0.27	0.70	0.43	0.39	2.18	0.41		200/100											
		1/2	CL3-12	0.27	0.82	0.55	0.47	2.38	0.51		200/100											
2	60	# 10	CL2-10	0.29	0.66	0.25	0.23	1.81	0.20	BROWN	200/50											
		1/4	CL2-14	0.29	0.66	0.27	0.23	1.83	0.25		200/50											
		5/16	CL2-516	0.29	0.66	0.35	0.31	1.98	0.33		200/50											
		1/2	CL2-12	0.29	0.82	0.55	0.47	2.34	0.51		200/50											
1	75	# 10	CL1-10	0.35	0.66	0.25	0.23	1.88	0.20	GREEN	200/50											
		5/16	CL1-516	0.35	0.66	0.35	0.31	2.06	0.33		200/50											
		1/2	CL1-12	0.35	0.82	0.55	0.47	2.42	0.51		200/50											
1/0	100	# 10	CL1/0-10	0.39	0.74	0.31	0.27	2.10	0.20	PINK	100/50											
		5/16	CL1/0-516	0.39	0.74	0.35	0.31	2.18	0.33		100/50											
		3/8	CL1/0-38	0.39	0.78	0.43	0.39	2.34	0.41		100/50											
		1/2	CL1/0-12	0.39	0.82	0.55	0.47	2.53	0.51		100/50											
2/0	125	3/8	CL2/0-38	0.44	0.82	0.43	0.39	2.65	0.41	BLACK	100/50											
		1/2	CL2/0-12	0.44	0.86	0.55	0.47	2.85	0.51		100/50											
3/0	150	1/2	CL3/0-12	0.48	0.94	0.55	0.47	2.81	0.51	ORANGE	100/50		●									
4/0	200	3/8	CL4/0-38	0.53	0.98	0.43	0.39	2.89	0.41	PURPLE	60/30		●									
		1/2	CL4/0-12	0.53	0.98	0.55	0.47	3.09	0.51		60/30		●									
250 MCM	250	1/2	CL250-12	0.59	1.12	0.55	0.47	3.30	0.51	YELLOW	50/25		●									
300 MCM	300	1/2	CL300-12	0.65	1.24	0.62	0.55	3.85	0.51	WHITE	30/15		●									
350 MCM	350	1/2	CL350-12	0.69	1.29	0.62	0.55	3.85	0.51	RED	30/15											
400 MCM	400	1/2	CL400-12	0.75	1.39	0.62	0.55	4.21	0.51	BLUE	20/10											
		5/8	CL400-58	0.75	1.39	0.74	0.66	4.44	0.66		20/10											
500 MCM		1/2	CL500-12	0.83	1.53	0.62	0.55	4.25	0.51	BROWN	20/10											
		5/8	CL500-58	0.83	1.53	0.74	0.66	4.48	0.66		20/10											
600 MCM		1/2	CL600-12	0.93	1.73	0.78	0.55	5.05	0.51	GREEN	10/5											
		5/8	CL600-58	0.93	1.73	0.86	0.74	5.33	0.66		10/5											
750 MCM		1/2	CL750-12	1.02	1.88	0.86	0.74	5.53	0.51	BLACK	10/5											
		5/8	CL750-58	1.02	1.88	0.86	0.74	5.53	0.66		10/5											

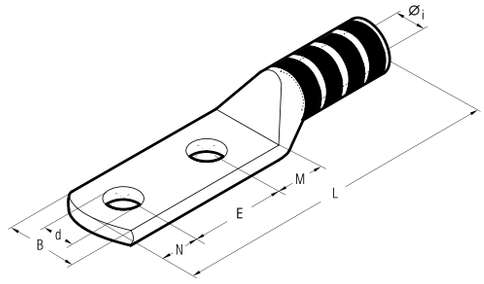
Also available with inspection hole.
In case of order, add suffix IH to the part number.
E.g.: CL250IH-12

COLOR CODED COPPER CRIMPING LUGS

CL-D

double hole long barrel - for Copper conductors

c UL us
File no. E125401



Conductor AWG		Ø Stud in.	Type	Dimensions in.							Color Code	Quantity Box/Bag	Mechanical Tools	Hydraulic Tools
Size	Navy			Øi	B	M	E	N	L	d				
8	23	1/4	CL8-D14	0.18	0.43	0.28	5/8"	0.24	2.09	0.25	RED	400/50	TN70SEY TN120SEY	B15MA HT51 RH50 B500A B500NDA B550CA B1300L-CA and similar tools for U dies ECW-H3D RHU520
		1/4	CL8-D141	0.18	0.43	0.28	3/4"	0.24	2.20	0.25		400/50		
		3/8	CL8-D38	0.18	0.71	0.43	1"	0.39	2.78	0.41		400/50		
6		1/4	CL6-D14	0.23	0.45	0.28	5/8"	0.24	2.15	0.25	BLUE	400/50		
		1/4	CL6-D141	0.23	0.45	0.28	3/4"	0.24	2.26	0.25		400/50		
		3/8	CL6-D38	0.23	0.71	0.43	1"	0.39	2.83	0.41		400/50		
		1/2	CL6-DN	0.23	0.79	0.55	1 3/4"	0.47	3.78	0.52		400/50		
4	40	1/4	CL4-D14	0.24	0.49	0.28	5/8"	0.24	2.44	0.25	GREY	200/50		
		1/4	CL4-D141	0.24	0.49	0.28	3/4"	0.24	2.56	0.25		200/50		
		3/8	CL4-D38	0.24	0.71	0.43	1"	0.39	3.13	0.41		200/50		
		1/2	CL4-DN	0.24	0.79	0.55	1 3/4"	0.47	4.07	0.52		200/50		
3	50	3/8	CL3-D38	0.28	0.71	0.43	1"	0.39	3.13	0.41	WHITE	200/50		
		1/2	CL3-DN	0.28	0.83	0.55	1 3/4"	0.47	4.07	0.52		200/50		
2	60	1/4	CL2-D14	0.30	0.67	0.28	5/8"	0.24	2.40	0.25	BROWN	200/50		
		1/4	CL2-D141	0.30	0.67	0.28	3/4"	0.24	2.52	0.25		200/50		
		3/8	CL2-D38	0.30	0.75	0.43	1"	0.39	3.09	0.41		100/50		
		3/8	CL2-DN38	0.30	0.75	0.43	1 3/4"	0.39	3.84	0.41		100/50		
		1/2	CL2-DN	0.30	0.83	0.55	1 3/4"	0.47	4.04	0.52		100/50		
1	75	1/4	CL1-D14	0.35	0.67	0.28	5/8"	0.24	2.48	0.25	GREEN	200/50		
		1/4	CL1-D141	0.35	0.67	0.28	3/4"	0.24	2.60	0.25		200/50		
		3/8	CL1-D38	0.35	0.75	0.43	1"	0.39	3.17	0.41		100/25		
		1/2	CL1-DN	0.35	0.83	0.55	1 3/4"	0.47	4.11	0.52		100/25		
1/0	100	1/4	CL1/0-D14	0.39	0.75	0.31	5/8"	0.28	2.68	0.25	PINK	100/25		
		1/4	CL1/0-D141	0.39	0.75	0.31	3/4"	0.28	2.80	0.25		100/25		
		3/8	CL1/0-D38	0.39	0.79	0.43	1"	0.39	3.29	0.41		100/25		
		1/2	CL1/0-DN	0.39	0.83	0.55	1 3/4"	0.47	4.23	0.52		100/25		
2/0	125	1/4	CL2/0-D14	0.44	0.83	0.31	5/8"	0.28	2.99	0.25	BLACK	60/30		
		1/4	CL2/0-D141	0.44	0.83	0.31	3/4"	0.28	3.11	0.25		60/30		
		3/8	CL2/0-D38	0.44	0.83	0.43	1"	0.39	3.60	0.41		60/30		
		1/2	CL2/0-DN	0.44	0.87	0.55	1 3/4"	0.47	4.55	0.52		60/30		
3/0	150	1/4	CL3/0-D141	0.49	0.91	0.31	3/4"	0.28	3.23	0.25	ORANGE	60/30		
		3/8	CL3/0-D38	0.49	0.91	0.43	1"	0.39	3.72	0.41		60/30		
		1/2	CL3/0-DN	0.49	0.94	0.55	1 3/4"	0.47	4.67	0.52		60/30		
4/0	200	1/4	CL4/0-D141	0.53	0.98	0.51	3/4"	0.43	3.70	0.25	PURPLE	50/25		
		3/8	CL4/0-D38	0.53	0.98	0.43	1"	0.39	3.84	0.41		50/25		
		3/8	CL4/0-DN38	0.53	0.98	0.43	1 3/4"	0.39	4.59	0.41		50/25		
		1/2	CL4/0-DN	0.53	0.98	0.55	1 3/4"	0.47	4.78	0.52		50/25		
250 MCM	250	3/8	CL250-D38	0.60	1.12	0.43	1"	0.39	4.06	0.41	YELLOW	40/20		
		1/2	CL250-DN	0.60	1.12	0.55	1 3/4"	0.47	5.00	0.52		40/20		
300 MCM	300	3/8	CL300-D38	0.66	1.24	0.51	1"	0.43	4.57	0.41	WHITE	30/15		
		1/2	CL300-DN	0.66	1.24	5/8"	1 3/4"	0.55	5.55	0.52		30/15		
350 MCM	350	1/4	CL350-D141	0.69	1.30	0.51	3/4"	0.43	4.31	0.25	RED	30/15		
		3/8	CL350-D38	0.69	1.30	0.51	1"	0.43	4.57	0.41		30/15		
		1/2	CL350-DN	0.69	1.30	5/8"	1 3/4"	0.55	5.55	0.52		30/15		
400 MCM	400	1/4	CL400-D141	0.76	1.40	0.51	3/4"	0.43	4.67	0.25	BLUE	20/10		
		3/8	CL400-D38	0.76	1.40	0.51	1"	0.43	4.92	0.41		20/10		
		1/2	CL400-DN	0.76	1.40	5/8"	1 3/4"	0.55	5.91	0.52		20/10		
500 MCM		1/4	CL500-D141	0.83	1.54	0.51	3/4"	0.43	4.70	0.25	BROWN	20/10		
		3/8	CL500-D38	0.83	1.54	0.51	1"	0.43	4.96	0.41		10/5		
		1/2	CL500-DN	0.83	1.54	5/8"	1 3/4"	0.55	5.94	0.52		10/5		
600 MCM		3/8	CL600-D38	0.93	1.73	0.79	1"	0.43	5.89	0.41	GREEN	20/5		
		1/2	CL600-DN	0.93	1.73	0.79	1 3/4"	0.55	6.75	0.52		20/5		
750 MCM		3/8	CL750-DN38	1.02	1.89	0.79	1 3/4"	0.43	6.83	0.41	BLACK	15/5		
		3/8	CL750-D38	1.02	1.89	0.79	1"	0.43	6.08	0.41		15/5		
		1/2	CL750-DN	1.02	1.89	0.79	1 3/4"	0.55	6.95	0.52		15/5		

Cu · FUNNEL ENTRY · ANNEALED · 3µm TIN PLATED · COLOR CODED · -58°F +302°F · SEMICIRCULAR

CL series lugs are manufactured from electrolytic Copper tube with a purity greater than 99.9%.
The dimensions of the tube are designed to obtain the most efficient electrical conductivity and mechanical strength to resist vibration and pull out.
Cembre lugs are annealed to guarantee optimum ductility, an absolute necessity for connectors which will have to withstand the severe deformation arising when compressed and any bending of the palm during installation.
In applications subject to vibration, terminals have to perform a reliable connection, the annealing process plays a vital role in avoiding cracking or breaks between the barrel and palm.
The barrel length has been designed to allow easy and accurate positioning of the dies during the crimping operation.
Lugs are electrolytically Tin plated to avoid oxidation.
The tongue is clearly marked with wire size and die index for Cembre tools.
UL listed for US and Canada per UL486A up to 35 KV.
CL series lugs are an important part of Cembre crimping systems for power carrying conductors.

Details of the appropriate crimping tools and dies are shown on page 286.

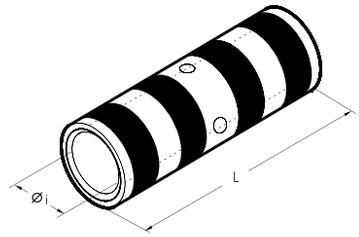
Cembre technicians are available to provide technical advice as required. Please consult Cembre for products not listed.

CEMBRE

BSCL

COLOR CODED SPLICES

long barrel - for Copper conductors



c UL us
File no. E125401

Cu · FUNNEL ENTRY · ANNEALED · 3µm TIN PLATED · COLOR CODED · -58°F +302°F · SEMICIRCULAR

BSCL range of connectors are designed for jointing low voltage conductors in heavy duty applications. Made of electrolytic Copper tube with a purity greater than 99.9%, having the same dimension as C and CL series lugs, BSCL connectors are annealed and electrolytically Tin plated.
They feature an internal taper at both ends to ease the introduction of the conductor and a central stop to ensure correct positioning.
UL listed for US and Canada per UL486A up to 35 KV.

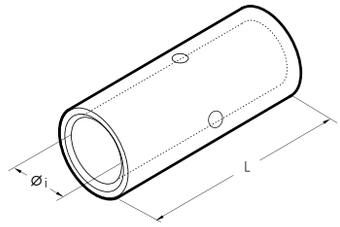
Appropriate crimping tools and dies are shown in details on page 286.

Conductor Size AWG	Type	Dimensions in. Øi	Dimensions in. L	Color Code	Quantity Box/Bag	Mechanical Tools: HN1	Mechanical Tools: HN5	Mechanical Tools: TN70SEY	Mechanical Tools: TN120SEY	Hydraulic Tools: B15MA	Hydraulic Tools: HT51 RH50 B500A B500NDA	Hydraulic Tools: B1300L-CA and similar tools for U dies	Hydraulic Tools: ECW-H3D	Hydraulic Tools: RHU520
8	**BSCL8**	0.18	1.99	RED	600/150	●	●	●	●	●	●	●	●	●
6	**BSCL6**	0.23	1.99	BLUE	400/100		●	●	●	●	●	●	●	●
4	**BSCL4**	0.24	2.38	GREY	200/100			●	●		●	●	●	●
3	**BSCL3**	0.28	2.38	WHITE	200/50			●	●		●	●	●	●
2	**BSCL2**	0.30	2.38	BROWN	200/50			●	●		●	●	●	●
1	**BSCL1**	0.35	2.58	GREEN	200/50			●	●		●	●	●	●
1/0	**BSCL1/0**	0.39	2.87	PINK	200/50			●	●		●	●	●	●
2/0	**BSCL2/0**	0.44	3.11	BLACK	100/50			●	●		●	●	●	●
3/0	**BSCL3/0**	0.49	3.11	ORANGE	80/40				●		●	●	●	●
4/0	**BSCL4/0**	0.53	3.37	PURPLE	50/25				●		●	●	●	●
250 MCM	**BSCL250**	0.60	3.37	YELLOW	50/25				●		●	●	●	●
300 MCM	**BSCL300**	0.66	4.11	WHITE	40/20				●		●	●	●	●
350 MCM	**BSCL350**	0.69	4.11	RED	40/20						●	●	●	●
400 MCM	**BSCL400**	0.76	4.37	BLUE	20/10						●	●	●	●
500 MCM	**BSCL500**	0.83	4.61	BROWN	20/10						●	●	●	●
600 MCM	**BSCL600**	0.93	5.49	GREEN	20/10							●	●	●
750 MCM	**BSCL750**	1.02	5.87	BLACK	10/10							●	●	●

THROUGH CONNECTORS

for Copper conductors

L-M



Conductor Size AWG	Type	Dimensions in. Øi	Dimensions in. L	Quantity Box/Bag	Mechanical Tools: HN1	HN5	HN-A25	TN70SEY	TN120 SEY	Hydraulic Tools: B15MA	B450ND-BVA	B550CA	B500NDA	RHU81	HT45-E	HT51	B500A	HT81-U	RH50	B1300L-CA and similar tools for U dies	ECW-H3D	RHU520
22÷16	L03-M♦	0.07	0.59	5,000/100	●					●												
16÷14	L06-M♦	0.09	0.59	4,000/100	●					●												
12÷10	L1-M	0.14	0.87	2,000/100	●					●	●	●	●	●	●	●	●	●	●	●	●	●
8	L2-M	0.18	0.98	1,000/100		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
6	L3-M	0.23	1.06	500/100		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
4	L5-M	0.28	1.14	500/100		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
2	L7-M	0.35	1.30	400/100		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
2-1/0	L10-M	0.39	1.46	200/50		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
1/0-2/0	L14-M	0.44	1.54	200/50		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
2/0-3/0	L19-M	0.53	1.69	100/25		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
3/0-250	L24-M	0.60	1.85	75/25		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
250-300 MCM	L30-M	0.66	2.28	50/25		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
300-350 MCM	L37-M	0.76	2.52	30/15		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
350-500 MCM	L48-M	0.83	2.95	20/10		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
500-600 MCM	L60-M	0.93	3.54	20/10		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
800 MCM	L80-M	1.06	3.70	15/5		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
1000 MCM	L100-M	1.19	3.86	12/1		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
1250 MCM	L120-M♦	1.31	4.13	10/1		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
1500 MCM	L160-M♦	1.50	4.41	6/1		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
2000 MCM	L200-M♦	1.73	4.72	6/1		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

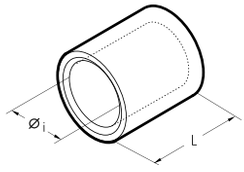
♦*Not UL approved*

L-M range of connectors are designed for jointing low voltage conductors.
Made of electrolytic Copper tube with a purity greater than 99.9%, having the same dimension as A-M series lugs: L-M connectors are annealed and electrolytically Tin plated.
They feature an internal taper at both ends to ease the introduction of the conductor and a central stop to ensure correct positioning.
Details of the appropriate crimping tools and dies are shown on pages 288 to 289.

PARALLEL CONNECTORS

for Copper conductors

L-P



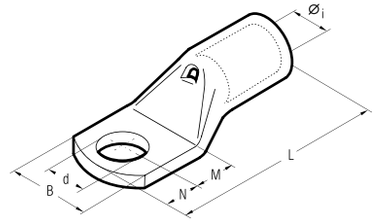
Conductor Size AWG	Type	Dimensions in. Øi	Dimensions in. L	Quantity Box/Bag	Mechanical Tools: HN1	HN5	HN-A25	TN70SEY	TN120 SEY	Hydraulic Tools: B15MA	B450ND-BVA	B550CA	B500NDA	RHU81	HT45-E	HT51	B500A	HT81-U	RH50	B1300L-CA and similar tools for U dies	ECW-H3D	RHU520
22÷16	L03-P	0.07	0.24	8,000/100	●					●												
16÷14	L06-P	0.09	0.24	5,000/100	●					●												
12÷10	L1-P	0.14	0.35	3,000/100	●					●	●	●	●	●	●	●	●	●	●	●	●	●
8	L2-P	0.18	0.41	2,000/100		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
6	L3-P	0.23	0.45	1,500/100		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
4	L5-P	0.28	0.51	1,000/100		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
2	L7-P	0.35	0.55	500/100		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
2-1/0	L10-P	0.39	0.63	500/100		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
1/0-2/0	L14-P	0.44	0.71	500/100		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
2/0-3/0	L19-P	0.53	0.75	200/50		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
3/0-250	L24-P	0.60	0.87	200/50		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
250-300 MCM	L30-P	0.66	1.04	100/50		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
300-350 MCM	L37-P	0.76	1.04	100/50		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
350-500 MCM	L48-P	0.83	1.34	60/15		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
500-600 MCM	L60-P	0.93	1.69	50/25		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

Made of electrolytic Copper tube with a purity greater than 99.9%, having the same dimensions as A-M series lugs, L-P connectors are annealed and electrolytically Tin plated. They feature an internal taper to ease the introduction of the conductor.
Details of the appropriate crimping tools and dies are shown on pages 288 to 289.

A-M

COPPER TUBE CRIMPING LUGS

for Copper conductors



cULus File no. E125401

Cu · FUNNEL ENTRY · ANNEALED · 3µm TIN PLATED · -58°F +302°F · HEXAGONAL · INDENT

A-M series lugs are manufactured from electrolytic Copper tube with a purity greater than 99.9%.
The dimensions of the tube are designed to obtain the most efficient electrical conductivity and mechanical strength to resist vibration and pull out.
Cembre lugs are annealed to guarantee optimum ductility which is an absolute necessity for connectors which will have to withstand the severe deformation arising when compressed and any bending of the palm during installation.
In applications subject to vibration, lugs still have to provide a reliable connection and annealing plays a vital role in avoiding cracking or breaks between the barrel and palm.
The presence of an inspection hole facilitates full insertion of the conductor, whilst the barrel length has been designed to allow easy and accurate positioning of the dies during the crimping operation.
Lugs are electrolytically Tin plated to avoid oxidation. A-M series lugs form an important part of Cembre crimping systems for power carrying conductors, details of the appropriate crimping tools and dies are shown opposite and in detail on pages 288 to 289.
Our technicians are always available to provide any technical advice which may be required.
The enclosed table is only indicative of the range and many variations in stud fixing and palm lengths are also available.

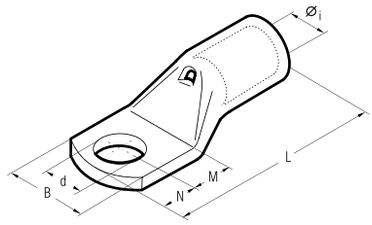
Crimping lugs with two or more holes can be supplied on request.

| Conductor Size AWG | Ø Stud in. | Type | Dimensions in. | | | | | | Quantity Box/Bag | Mechanical Tools | | | | Hydraulic Tools | | | | | |

COPPER TUBE CRIMPING LUGS

for Copper conductors

File no. E125401



Conductor Size AWG	Ø Stud in.	Type	Dimensions in.						Quantity Box/Bag	Mechanical Tools	Hydraulic Tools									
			Øi	B	M	N	L	d		TN120SEY	HT45-E B450ND-BVA	HT51 B550CA	RH50 B500A B500NDA	HT81-U RHU81	B1300L-CA and similar tools for U dies	ECW-H3D	RHU520			
2/0 3/0	1/4″	**A19-M6**	0.53	0.98	0.31	0.28	1.99	0.25	*100/25*											
	5/16″	**A19-M8**	0.53	0.98	0.35	0.31	2.07	0.33	*100/25*											
	3/8″	**A19-M10**	0.53	0.98	0.43	0.39	2.22	0.41	*100/25*											
	1/2″	**A19-M12**	0.53	0.98	0.55	0.47	2.42	0.52	*100/25*											
	9/16″	**A19-M14**	0.53	0.98	0.63	0.55	2.58	0.59	*100/25*											
	5/8″	**A19-M16**	0.53	1.06	0.71	0.63	2.74	0.67	*50/25*											
	3/4″	**A19-M20**	0.53	1.16	0.87	0.79	3.05	0.83	*50/25*											
3/0 250	5/16″	**A24-M8**	0.60	1.12	0.35	0.31	2.13	0.33	*75/25*											
	3/8″	**A24-M10**	0.60	1.12	0.43	0.39	2.28	0.41	*75/25*											
	1/2″	**A24-M12**	0.60	1.12	0.55	0.47	2.48	0.52	*75/25*											
	9/16″	**A24-M14**	0.60	1.12	0.63	0.55	2.64	0.59	*50/25*											
	5/8″	**A24-M16**	0.60	1.12	0.71	0.63	2.80	0.67	*50/25*											
	3/4″	**A24-M20**	0.60	1.18	0.87	0.79	3.11	0.83	*50/25*											
250 300 MCM	5/16″	**A30-M8**	0.66	1.24	0.51	0.43	2.72	0.33	*50/25*											
	3/8″	**A30-M10**	0.66	1.24	0.51	0.43	2.72	0.41	*50/25*											
	1/2″	**A30-M12**	0.66	1.24	0.63	0.55	2.95	0.52	*50/25*											
	9/16″	**A30-M14**	0.66	1.24	0.71	0.63	3.11	0.59	*50/25*											
	5/8″	**A30-M16**	0.66	1.24	0.75	0.67	3.19	0.67	*50/25*											
	3/4″	**A30-M20**	0.66	1.24	0.87	0.79	3.43	0.83	*50/25*											
300 350 MCM	5/16″	**A37-M8**	0.76	1.40	0.51	0.43	2.99	0.33	*30/15*											
	3/8″	**A37-M10**	0.76	1.40	0.51	0.43	2.99	0.41	*30/15*											
	1/2″	**A37-M12**	0.76	1.40	0.63	0.55	3.23	0.52	*30/15*											
	9/16″	**A37-M14**	0.76	1.40	0.71	0.63	3.39	0.59	*30/15*											
	5/8″	**A37-M16**	0.76	1.40	0.75	0.67	3.46	0.67	*30/15*											
	3/4″	**A37-M20**	0.76	1.40	0.87	0.79	3.70	0.83	*30/15*											
350 500 MCM	5/16″	**A48-M8**	0.83	1.54	0.51	0.43	3.05	0.33	*20/10*											
	3/8″	**A48-M10**	0.83	1.54	0.51	0.43	3.05	0.41	*20/10*											
	1/2″	**A48-M12**	0.83	1.54	0.55	0.47	3.13	0.52	*20/10*											
	9/16″	**A48-M14**	0.83	1.54	0.71	0.63	3.62	0.59	*20/10*											
	5/8″	**A48-M16**	0.83	1.54	0.75	0.67	3.70	0.67	*20/10*											
	3/4″	**A48-M20**	0.83	1.54	0.87	0.79	3.94	0.83	*20/10*											
500 600 MCM	3/8″	**A60-M10**	0.93	1.73	0.79	0.43	3.78	0.41	*20/10*											
	1/2″	**A60-M12**	0.93	1.73	0.79	0.55	3.90	0.52	*20/10*											
	9/16″	**A60-M14**	0.93	1.73	0.87	0.63	4.06	0.59	*20/10*											
	5/8″	**A60-M16**	0.93	1.73	0.87	0.75	4.17	0.67	*20/10*											
	3/4″	**A60-M20**	0.93	1.73	0.94	0.91	4.41	0.83	*20/10*											
800 MCM	1/2″	**A80-M12**	1.06	2.01	0.87	0.75	4.45	0.52	*15/5*											
	9/16″	**A80-M14**	1.06	2.01	0.87	0.75	4.45	0.59	*15/5*											
	5/8″	**A80-M16**	1.06	2.01	0.87	0.75	4.45	0.67	*15/5*											
	3/4″	**A80-M20**	1.06	2.01	0.94	0.91	4.68	0.83	*15/5*											
1000 MCM	5/8″	**A100-M16**	1.19	2.22	0.87	0.75	4.61	0.67	*10/1*											
	3/4″	**A100-M20**	1.19	2.22	0.94	0.91	4.84	0.83	*10/1*											
1250 MCM	5/8″	**A120-M16♦**	1.31	2.43	0.87	0.75	5.04	0.67	*9/1*											
	3/4″	**A120-M20♦**	1.31	2.43	0.94	0.91	5.28	0.83	*9/1*											
1500 MCM	5/8″	**A160-M16♦**	1.50	2.83	0.94	0.75	5.55	0.67	*5/1*											
	3/4″	**A160-M20♦**	1.50	2.83	0.94	0.91	5.71	0.83	*6/1*											
2000 MCM	5/8″	**A200-M16♦**	1.73	3.15	0.94	0.75	6.22	0.67	*5/1*											
	3/4″	**A200-M20♦**	1.73	3.15	0.94	0.91	6.38	0.83	*5/1*											

Cu · FUNNEL ENTRY · ANNEALED · 3µm TIN PLATED · -58°F +302°F · HEXAGONAL · INDENT

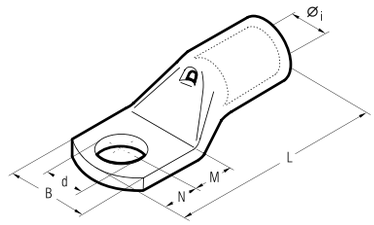
♦*Not UL approved*

CEMBRE

A-M

COPPER TUBE CRIMPING LUGS

for extra flexible Copper conductors



for fine stranded • SPECIAL • flexible conductors

Cu | FUNNEL ENTRY | ANNEALED | 3µm TIN PLATED | -58°F +302°F | HEXAGONAL | INDENT

These lugs are particularly recommended for use with extra flexible conductors on for instance, welding machines.
A-M series lugs are designed to suit panel applications.
The dimensions of the tube are designed to obtain the most efficient electrical conductivity and mechanical strength to resist vibration and pull out.
A-M series lugs are manufactured from electrolytic Copper tube with a purity greater than 99.9%, annealed to guarantee optimum ductility and electrolytically Tin plated to avoid oxidation.
The presence of an inspection hole facilitates full insertion of the conductor.

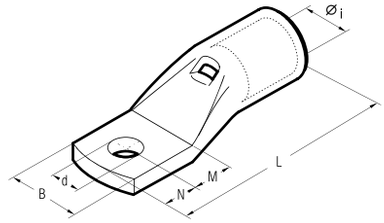
Details of the appropriate crimping tools and dies are shown on pages 288 to 289.

| Conductor Size Extra Flexible AWG | Ø Stud in. | Type | Dimensions in. | | | | | | Quantity Box/Bag | Mechanical Tools | | Hydraulic Tools | | | | | |

RING TONGUE TERMINALS WITH CONTAINED PALM

for L.V. circuit breakers - for Copper conductors

File no. E125401



Cu · CONTAINED · FUNNEL ENTRY · ANNEALED · 3µm TIN PLATED · -58°F +302°F · HEXAGONAL · INDENT

Cond. Size Flexible AWG	Ø Stud in.	Type	Dimensions in. Øi	B	M	N	L	d	Quantity Box/Bag	Mechanical Tools HN5	HN-A25	TN70SEY	TN120SEY	Hydraulic Tools B15MA	HT45-E B450ND-BVA	HT51 B550CA	B500A B500NDA	RH50	HT81-U RHU81	B1300L-CA and similar tools for U dies	ECW-H3D
8	#10	**A2-M5/9**	0.18	0.35	0.26	0.24	1.02	0.21	*1,000/100*												
6	#10	**A3-M5/9**	0.23	0.35	0.26	0.24	1.20	0.21	*1,000/100*												
4	#10	**A5-M5/9**	0.28	0.35	0.26	0.24	1.24	0.21	*500/100*												
2	1/4″	**A7B-M6/11.5***	0.35	0.45	0.31	0.28	1.44	0.25	*400/100*												
2-1/0	1/4″	**A10B-M6/11.5***	0.39	0.45	0.31	0.28	1.59	0.25	*200/50*												
1/0-2/0	1/4″	**A14B-M6/11.5***	0.44	0.45	0.31	0.28	1.75	0.25	*200/50*												
2/0-3/0	5/16″	**A19B-M8/15.5***	0.53	0.61	0.35	0.31	2.07	0.33	*100/25*												
3/0-250	5/16″	**A24B-M8/19***	0.60	0.75	0.55	0.35	2.36	0.33	*75/25*												
	3/8″	**A24B-M10/19***	0.60	0.75	0.55	0.35	2.36	0.41	*75/25*												
250-300 MCM	5/16″	**A30B-M8/19***	0.66	0.75	0.71	0.35	2.76	0.33	*50/25*												
	3/8″	**A30B-M10/19***	0.66	0.75	0.71	0.35	2.76	0.41	*50/25*												
300-350 MCM	3/8″	**A37B-M10/24.5***	0.76	0.96	0.71	0.35	3.03	0.41	*30/15*												
350-500 MCM	3/8″	**A48-M10/31**	0.83	1.22	0.51	0.35	3.15	0.41	*20/10*												
	1/2″	**A48-M12/31**	0.83	1.22	0.63	0.47	3.39	0.52	*20/10*												
	5/8″	**A48-M16/31**	0.83	1.22	0.75	0.67	3.70	0.67	*20/10*												
500-600 MCM	3/8″	**A60B-M10/31**	0.93	1.22	0.63	0.47	3.74	0.41	*20/10*												
	1/2″	**A60B-M12/31**	0.93	1.22	0.63	0.47	3.74	0.52	*20/10*												

*Without inspection hole

This range of terminals features contained palm width and has been specifically developed for application on L.V. circuit breakers with reduced space terminal blocks.
The contained palm width allows an immediate and easier installation.
Cembre terminals are manufactured from electrolytic Copper tube with a purity greater than 99.9%.
The specifically designed section of the barrel and the choice of principal dimensions are optimising the best combination of mechanical strength and electrical conductivity.
These terminals are annealed to guarantee optimum ductility and are electrolytically Tin plated to avoid oxidation.
The barrel is provided with an internal taper to ease the introduction of the conductor; furthermore, its length grants a comfortable and correct positioning between dies, during crimping operations.
Each palm is marked with the Cembre logo and part number.

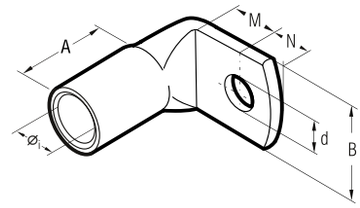
Details of the appropriate crimping tools and dies are shown on pages 288 to 289.

CEMBRE

A-L

COPPER TUBE CRIMPING LUGS ANGLED 90°

for Copper conductors



Cu · ANGLED 90° · FUNNEL ENTRY · ANNEALED · 3µm TIN PLATED · -58°F +302°F · HEXAGONAL · INDENT

c UL us File no. E125401

A-L series lugs angled 90° are manufactured from electrolytic Copper tube with a purity greater than 99.9%.
The dimensions of the tube are designed to obtain the most efficient electrical conductivity and mechanical strength to resist vibration and pull out.
Cembre lugs are annealed to guarantee optimum ductility which is an absolute necessity for connectors which will have to withstand the severe deformation arising when compressed and any bending of the palm during installation.
In applications subject to vibration, terminals still have to perform a reliable connection, annealing plays a vital role in avoiding cracking or breaks between the barrel and palm.
The presence of an inspection hole facilitates full insertion of the conductor, whilst the barrel length has been designed to allow easy and accurate positioning of the dies during the crimping operation.
Lugs are electrolytically Tin plated to avoid oxidation.

Details of the appropriate crimping tools and dies are shown on pages 288 to 289.

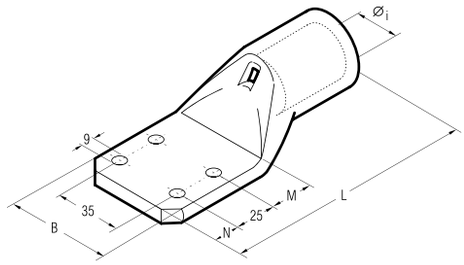
Conductor Size AWG	Ø Stud in.	Type	Dimensions in.						Quantity Box/Bag	Mechanical Tools			Hydraulic Tools														
			Øi	B	M	N	A	d		HN1	HN5	HN-A25	TN70SEY	TN120SEY	B15MA	HT45-E	B450ND-BVA	B550CA	HT51	B500NDA	B500A	RH50	HT81-U	RHU81	B1300L-CA and similar tools for U dies	ECW-H3D	RHU520
12÷10	1/4"	A1-L6♦	0.14	0.43	0.28	0.24	0.31	0.25	2,000/100																		
8	#8	A2-L4	0.18	0.39	0.20	0.16	0.31	0.17	1,500/100	●																	
	#10	A2-L5	0.18	0.39	0.26	0.24	0.31	0.21	1,000/100	●																	
	1/4"	A2-L6	0.18	0.43	0.28	0.24	0.31	0.25	1,000/100	●																	
	5/16"	A2-L8	0.18	0.59	0.35	0.31	0.31	0.33	500/100	●																	
6	#10	A3-L5	0.23	0.45	0.26	0.24	0.45	0.21	1,000/100		●	●			●												
	1/4"	A3-L6	0.23	0.45	0.28	0.24	0.45	0.25	1,000/100		●	●			●												
	5/16"	A3-L8	0.23	0.59	0.35	0.31	0.45	0.33	500/100		●	●			●												
	3/8"	A3-L10	0.23	0.71	0.43	0.39	0.45	0.41	500/100		●	●			●												
4	1/4"	A5-L6	0.28	0.55	0.28	0.24	0.41	0.25	500/100			●															
	5/16"	A5-L8	0.28	0.59	0.35	0.31	0.41	0.33	500/100			●															
	3/8"	A5-L10	0.28	0.71	0.43	0.39	0.41	0.41	500/100			●															
2	1/4"	A7-L6	0.35	0.67	0.28	0.24	0.52	0.25	300/100				●														
	5/16"	A7-L8	0.35	0.67	0.35	0.31	0.52	0.33	300/100				●														
	3/8"	A7-L10	0.35	0.75	0.43	0.39	0.52	0.41	300/100				●														
	1/2"	A7-L12	0.35	0.83	0.55	0.47	0.52	0.52	300/100				●														
2 - 1/0	1/4"	A10-L6	0.39	0.75	0.31	0.28	0.65	0.25	300/100				●														
	5/16"	A10-L8	0.39	0.75	0.35	0.31	0.65	0.33	200/100				●														
	3/8"	A10-L10	0.39	0.79	0.45	0.37	0.65	0.41	200/50				●														
	1/2"	A10-L12	0.39	0.83	0.47	0.47	0.65	0.52	200/50				●														
1/0 2/0	5/16"	A14-L8	0.44	0.83	0.35	0.31	0.71	0.33	200/50				●														
	2/0	A14-L10	0.44	0.83	0.43	0.39	0.71	0.41	100/50				●														
	1/2"	A14-L12	0.44	0.87	0.55	0.47	0.71	0.52	100/50				●														
	5/8"	A14-L16	0.44	1.02	0.71	0.63	0.71	0.67	150/50				●														
2/0 3/0	5/16"	A19-L8	0.53	0.98	0.35	0.31	0.88	0.33	100/25					●													
	3/8"	A19-L10	0.53	0.98	0.43	0.39	0.88	0.41	100/25					●													
	1/2"	A19-L12	0.53	0.98	0.55	0.47	0.88	0.52	100/25					●													
3/0	3/8"	A24-L10	0.60	1.12	0.43	0.39	0.94	0.41	50/25					●													
250	1/2"	A24-L12	0.60	1.12	0.56	0.47	0.94	0.52	50/25					●													
250-300	3/8"	A30-L10	0.66	1.24	0.51	0.43	1.04	0.41	50/25					●													
MCM	1/2"	A30-L12	0.66	1.24	0.63	0.55	1.04	0.52	50/25					●													
300-350	3/8"	A37-L10	0.76	1.40	0.51	0.43	1.14	0.41	30/15						●												
MCM	1/2"	A37-L12	0.76	1.40	0.63	0.55	1.14	0.52	50/25						●												
350-500	3/8"	A48-L10	0.83	1.54	0.51	0.43	1.30	0.41	30/15						●												
MCM	1/2"	A48-L12	0.83	1.54	0.63	0.55	1.30	0.52	20/10						●												
500-600 MCM	1/2"	A60-L12	0.93	1.73	0.79	0.55	1.57	0.52	20/10						●												

♦Not UL approved

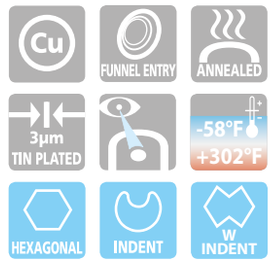
COPPER TUBE LUGS 4-ESI FIXING

A-4ESI

for Copper conductors



Conductor Size MCM	Type	Dimensions in.					Quantity Box/Bag	Hydraulic Tools						
		Ø	B	M	N	L		HT51 B550CA	B500A B500NDA	RH50	HT81-U RHU81	B1300L-CA and similar tools for U dies	ECW-H3D	RHU520
300-350	**A37-4ESI**	0.76	2.40	0.79	0.59	4.88	*20/10*							
500	**A48-4ESI**	0.83	2.40	0.79	0.59	5.04	*20/10*							
600	**A60-4ESI**	1.07	2.40	0.79	0.59	5.24	*15/5*							
800	**A80-4ESI**	1.06	2.40	0.79	0.59	5.28	*15/5*							
1000	**A100-4ESI**	1.19	2.40	0.79	0.59	5.47	*10/5*							
1250	**A120-4ESI**	1.31	2.40	0.79	0.59	5.67	*10/5*							
1500	**A160-4ESI**	1.50	2.40	0.79	0.59	6.22	*8/1*							



A-4ESI series lugs are made from high purity electrolytic Copper tube with a purity greater than 99.9%, annealed and Tin plated.
The four hole stud fixing in accordance with E.A. specifications ensures compatibility with most transformer fixing arrangements.

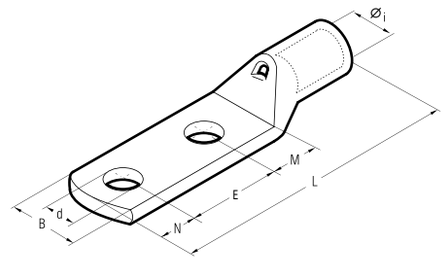
Details of the appropriate crimping tools and dies are shown on pages 288 to 289.

CEMBRE

A-2M

DOUBLE HOLE COPPER TUBE CRIMPING LUGS

for Copper conductors



c UL us
File no. E125401

Cu · FUNNEL ENTRY · ANNEALED · 3µm TIN PLATED · -58°F +302°F · HEXAGONAL · INDENT

A-2M series lugs are manufactured from electrolytic copper tube with a purity greater than 99.9%.
The dimensions of the tube are designed to obtain the most efficient electrical conductivity and mechanical strength to resist vibration and pull out.
Cembre lugs are annealed to guarantee optimum ductility, an absolute necessity for connectors which will have to withstand the severe deformation arising when compressed and any bending of the palm during installation.
In applications subject to vibration, terminals still have to perform a reliable connection, annealing plays a vital role in avoiding cracking or breaks between the barrel and palm.
The presence of an inspection hole facilitates full insertion of the conductor, whilst the barrel length has been designed to allow easy and accurate positioning of the dies during the crimping operation.
Lugs are electrolytically tinplated to avoid oxidation.
A-2M series lugs form an important part of Cembre crimping systems for power carrying conductors, details of the appropriate crimping tools and dies are shown opposite and in detail on page 288 to 289, whilst our technicians are always available to provide any technical advice which may be required.
The enclosed table is only indicative of the range and many variations in stud fixing and palm lengths are also available.
UL listed for US and Canada per UL486A up to 35 KV.

| Cond. Size AWG | Ø Stud in. | Type | Dimensions in. | | | | | | | Quantity Box/Bag | Mechanical Tools | | | | Hydraulic Tools | | | | | | |

DOUBLE HOLE COPPER TUBE CRIMPING LUGS

A-2M

for Copper conductors

File no. E125401

Cond. Size AWG	Ø Stud in.	Type	Dimensions in. Øi	B	M	N	E	L	d	Quantity Box/Bag
300 350 MCM	3/8″	A48-2M10-20	0.83	1.54	0.51	0.43	0.79	4.02	0.41	15
	3/8″	A48-2M10-35	0.83	1.54	0.51	0.43	1.38	4.61	0.41	15
	1/2″	A48-2M12	0.83	1.54	0.63	0.55	1.75	5.22	0.52	30/15
	1/2″	A48-2M12-35	0.83	1.54	0.63	0.55	1.38	4.84	0.52	30/15
	1/2″	A48-2M12-40	0.83	1.54	0.63	0.55	1.57	5.04	0.52	30/15
	1/2″	A48-2M12-30-31	0.83	1.54	1.22	0.55	1.18	5.24	0.52	20/10
	9/16″	A48-2M14	0.83	1.54	0.71	0.63	1.75	5.37	0.59	30/15
	9/16″	A48-2M14-40	0.83	1.54	0.71	0.63	1.57	5.20	0.59	30/15
500 600 MCM	1/2″	A60-2M12	0.93	1.73	0.79	0.55	1.75	5.65	0.52	20/5
	1/2″	A60-2M12-40	0.93	1.73	0.79	0.55	1.57	5.47	0.52	20/5
	1/2″	A60-2M12-30-38	0.93	1.73	1.50	0.55	1.18	5.79	0.52	20/5
	9/16″	A60-2M14	0.93	1.73	0.87	0.63	1.75	5.81	0.59	20/5
	5/8″	A60-2M16-40	0.93	1.73	0.87	0.67	1.57	5.67	0.67	20/5
	5/8″	A60-2M16	0.93	1.73	0.87	0.67	1.75	5.85	0.67	20/5
	5/8″	A60-2M16-35	0.93	1.73	0.87	0.67	1.38	5.47	0.67	20/5
800 MCM	9/16″	A80-2M14	1.06	2.01	0.87	0.63	1.75	6.08	0.59	15/5
	9/16″	A80-2M14-40	1.06	2.01	0.87	0.63	1.57	5.91	0.59	15/5
	5/8″	A80-2M16-40	1.06	2.01	0.87	0.75	1.57	6.02	0.67	15/5
	5/8″	A80B-2M16-40*	1.06	2.01	0.87	0.75	1.57	6.02	0.67	5
	5/8″	A80-2M16-50	1.06	2.01	0.87	0.75	1.97	6.42	0.67	5

Hydraulic Tools: HT51 B550CA | B500A B500NDA | RH 50 | HT81-U RHU81 | B1300L-CA and similar tools for U dies | ECW-H3D | RHU520

*Without inspection hole

DOUBLE HOLE COPPER TUBE CRIMPING LUGS

A-2M

angled 315° and 345° for copper conductors

File no. E125401

Fig. 1

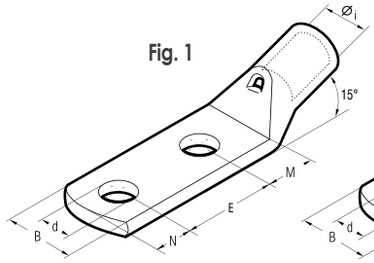
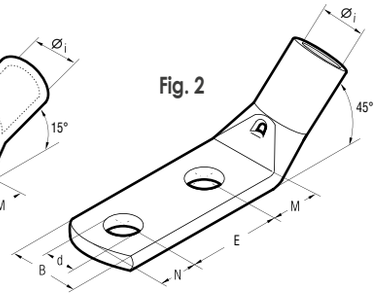
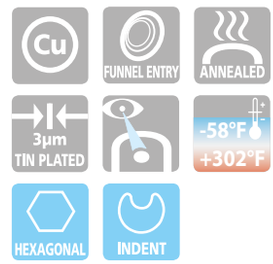


Fig. 2





Cond. Size AWG	Ø Stud in.	Type	Fig. N.	Dimensions in. Øi	B	M	N	E	d	Quantity Box/Bag
4	5/16″	A5-2M8-24-24/345	1	0.28	0.59	0.94	0.43	0.94	0.33	300/100
	1/2″	A5-2M12-30-29/345	1	0.28	0.83	1.14	0.55	1.18	0.52	200/100
2 - 1/0	5/16″	A10-2M8-24-24/345	1	0.39	0.75	0.94	0.43	0.94	0.33	150/50
1/0 2/0	5/16″	A14-2M8-24-24/345	1	0.44	0.83	0.94	0.43	0.94	0.33	100/50
	3/8″	A14-2M10-24-26/315	2	0.44	0.83	1.02	0.43	0.94	0.41	100/50
	3/8″	A14-2M10-24-26/345	1	0.44	0.83	1.02	0.43	0.94	0.41	100/50
	1/2″	A14-2M12-30-29/345	1	0.44	0.87	1.14	0.55	1.18	0.52	100/50
2/0 3/0	5/16″	A19-2M8-24-24/345	1	0.53	0.98	0.94	0.43	0.94	0.33	75/25
	3/8″	A19-2M10-24-26/345	1	0.53	0.98	1.02	0.43	0.94	0.41	25
	1/2″	A19-2M12-30-29/345	1	0.53	0.98	1.14	0.55	1.18	0.52	75/25
3/0 250	5/16″	A24-2M8-24-29/345	1	0.60	1.12	1.14	0.43	0.94	0.33	50/25
	3/8″	A24-2M10-24-29/345	1	0.60	1.12	1.14	0.43	0.94	0.41	50/25
	1/2″	A24-2M12-30-29/345	1	0.60	1.12	1.14	0.55	1.18	0.52	50/25
250 - 300 MCM	5/16″	A30-2M8-24-29/345	1	0.66	1.24	1.14	0.43	0.94	0.33	30/15
	3/8″	A30-2M10-24-28/345	1	0.66	1.24	1.10	0.43	0.94	0.41	50/25
	1/2″	A30-2M12-30-29/345	1	0.66	1.24	1.14	0.55	1.18	0.52	40/20
300 - 350 MCM	3/8″	A37-2M10-25/315	2	0.76	1.40	0.51	0.43	0.98	0.41	15
	1/2″	A37-2M12-30-31/345	1	0.76	1.40	1.22	0.55	1.18	0.52	30/15
300 - 350 MCM	1/2″	A48-2M12/345	1	0.83	1.54	0.63	0.55	1.75	0.52	20/10
	1/2″	A48-2M12-30/45	1	0.83	1.54	0.63	0.55	1.18	0.52	20/10
	1/2″	A48-2M12-30-31/345	1	0.83	1.54	1.22	0.55	1.18	0.52	20/10
500 - 600 MCM	1/2″	A60-2M12-30-38/345	1	0.93	1.73	1.50	0.55	1.18	0.52	20/10

Mechanical Tools: HN-A25 | TN70SEY | TN120SEY

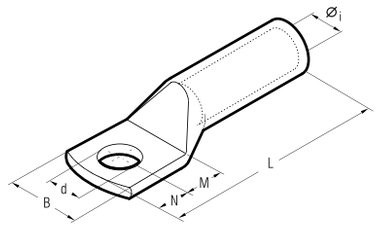
Hydraulic Tools: HT45-E B450ND-BVA | HT51 B550CA | RH50 B500A B500NDA | HT81-U RHU81 | B1300L-CA and similar tools for U dies | ECW-H3D | RHU520

CEMBRE

2A-M

HEAVY DUTY COPPER TUBE TERMINALS

for Copper conductors



c UL us
File no. E125401

Cu · FUNNEL ENTRY · ANNEALED · 3µm TIN PLATED · -58°F +302°F · HEXAGONAL · INDENT

The 2A-M series cable lugs are designed for heavy duty, for grounding structures and equipment both indoors and outdoors and for medium voltage applications up to 35 kV.
2A-M series terminals are made from high purity Copper tube with a purity greater than 99.9%, and are annealed.
They feature a double length barrel for enhanced electrical and mechanical performance in heavy duty applications.
The absence of an inspection hole prevents the entry of water or moisture into the crimped joint making these terminals suitable for outdoor applications.
The terminals are electrolytically Tin plated to prevent atmospheric corrosion.
Details of the appropriate crimping tools and dies are shown on pages 288 to 289.

Conductor Size AWG	Ø Stud in.	Type	Dimensions in.						Quantity Box/Bag	Mechanical Tools			Hydraulic Tools																
			Øi	B	M	N	L	d		HN5	HN-A25	TN70SEY	B15MA	B450ND-BVA	HT45-E	B550CA	HT51	B500NDA	B500A	RH50	HT81-U	RHU81	B1300L-CA and similar tools for U dies	ECW-H3D	RHU520					
6	5/16″	**2A3-M8**	0.23	0.59	0.35	0.31	1.71	0.33	*600/100*																				
	3/8″	**2A3-M10**	0.23	0.71	0.43	0.39	1.87	0.41	*500/100*																				
4	5/16″	**2A5-M8**	0.28	0.59	0.35	0.31	2.01	0.33	*400/100*																				
	3/8″	**2A5-M10**	0.28	0.71	0.43	0.39	2.17	0.41	*300/50*																				
	1/2″	**2A5-M12**	0.28	0.83	0.55	0.47	2.36	0.52	*300/50*																				
2	5/16″	**2A7-M8**	0.35	0.67	0.35	0.31	2.09	0.33	*200/50*																				
	3/8″	**2A7-M10**	0.35	0.75	0.43	0.39	2.24	0.41	*200/50*																				
	1/2″	**2A7-M12**	0.35	0.83	0.55	0.47	2.44	0.52	*200/50*																				
2-1/0	3/8″	**2A10-M10**	0.39	0.79	0.43	0.39	2.48	0.41	*100/50*																				
	1/2″	**2A10-M12**	0.39	0.83	0.55	0.47	2.68	0.52	*100/50*																				
	9/16″	**2A10-M14**	0.39	0.98	0.63	0.55	2.83	0.59	*150/50*																				
	5/8″	**2A10-M16**	0.39	1.02	0.71	0.63	2.99	0.67	*150/50*																				
1/0-2/0	3/8″	**2A14-M10**	0.44	0.83	0.43	0.39	2.76	0.41	*100/50*																				
	1/2″	**2A14-M12**	0.44	0.87	0.55	0.47	2.95	0.52	*100/50*																				
	9/16″	**2A14-M14**	0.44	0.98	0.63	0.55	3.11	0.59	*100/50*																				
	5/8″	**2A14-M16**	0.44	1.02	0.71	0.63	3.27	0.67	*100/50*																				
2/0-3/0	3/8″	**2A19-M10**	0.53	0.98	0.43	0.39	3.01	0.41	*50/25*																				
	1/2″	**2A19-M12**	0.53	0.98	0.55	0.47	3.21	0.52	*50/25*																				
	9/16″	**2A19-M14**	0.53	0.98	0.63	0.55	3.37	0.59	*75/25*																				
	5/8″	**2A19-M16**	0.53	1.06	0.71	0.63	3.56	0.67	*50/25*																				
	3/4″	**2A19-M20**	0.53	1.16	0.87	0.79	3.84	0.83	*75/25*																				
3/0-250	3/8″	**2A24-M10**	0.60	1.12	0.43	0.39	3.23	0.41	*30/15*																				
	1/2″	**2A24-M12**	0.60	1.12	0.55	0.47	3.43	0.52	*30/15*																				
	9/16″	**2A24-M14**	0.60	1.12	0.63	0.55	3.58	0.59	*30/15*																				
	5/8″	**2A24-M16**	0.60	1.12	0.71	0.63	3.74	0.67	*30/15*																				
	3/4″	**2A24-M20**	0.60	1.18	0.87	0.79	4.06	0.83	*50/25*																				
250 300 MCM	3/8″	**2A30-M10**	0.66	1.24	0.51	0.43	3.62	0.41	*30/15*																				
	1/2″	**2A30-M12**	0.66	1.24	0.63	0.55	3.86	0.52	*30/15*																				
	9/16″	**2A30-M14**	0.66	1.24	0.71	0.63	4.02	0.59	*30/15*																				
	5/8″	**2A30-M16**	0.66	1.24	0.75	0.67	4.09	0.67	*30/15*																				
	3/4″	**2A30-M20**	0.66	1.24	0.87	0.79	4.33	0.83	*30/15*																				
300 350 MCM	1/2″	**2A37-M12**	0.76	1.40	0.63	0.55	4.25	0.52	*20/10*																				
	9/16″	**2A37-M14**	0.76	1.40	0.71	0.63	4.41	0.59	*30/15*																				
	5/8″	**2A37-M16**	0.76	1.40	0.75	0.67	4.49	0.67	*30/15*																				
	3/4″	**2A37-M20**	0.76	1.40	0.87	0.79	4.72	0.83	*30/15*																				
350 500 MCM	1/2″	**2A48-M12**	0.83	1.54	0.63	0.55	4.29	0.52	*20/5*																				
	9/16″	**2A48-M14**	0.83	1.54	0.71	0.63	4.45	0.59	*20/5*																				
	5/8″	**2A48-M16**	0.83	1.54	0.75	0.67	4.53	0.67	*20/5*																				
	3/4″	**2A48-M20**	0.83	1.54	0.87	0.79	4.76	0.83	*25/5*																				
500 600 MCM	1/2″	**2A60-M12**	0.93	1.73	0.79	0.55	5.10	0.52	*15/5*																				
	9/16″	**2A60-M14**	0.93	1.73	0.87	0.63	5.26	0.59	*15/5*																				
	5/8″	**2A60-M16**	0.93	1.73	0.87	0.75	5.37	0.67	*15/5*																				
	3/4″	**2A60-M20**	0.93	1.73	0.94	0.91	5.61	0.83	*15/5*																				
800 MCM	1/2″	**2A80-M12**	1.06	2.01	0.87	0.75	5.51	0.52	*15/5*																				
	9/16″	**2A80-M14**	1.06	2.01	0.87	0.75	5.51	0.59	*10/5*																				
	5/8″	**2A80-M16**	1.06	2.01	0.87	0.75	5.51	0.67	*10/5*																				
	3/4″	**2A80-M20**	1.06	2.01	0.94	0.91	5.75	0.83	*15/5*																				
1000 MCM	5/8″	**2A100-M16♦**	1.19	2.22	0.87	0.75	5.55	0.67	*10/1*																				
	3/4″	**2A100-M20♦**	1.19	2.22	0.94	0.91	5.78	0.83	*10/1*																				
1250 MCM	5/8″	**2A120-M16♦**	1.31	2.42	0.87	0.75	6.26	0.67	*20/1*																				
	3/4″	**2A120-M20♦**	1.31	2.42	0.94	0.91	6.50	0.83	*20/1*																				
1500 MCM	3/4″	**2A160-M20♦**	1.50	2.83	0.94	0.91	7.36	0.83	*12/1*																				
2000 MCM	3/4″	**2A200-M20♦**	1.73	3.23	0.94	0.91	7.95	0.83	*6/1*																				

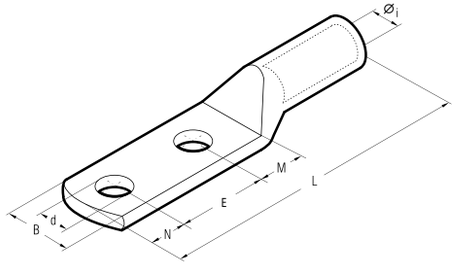
♦*Not UL approved*

HEAVY DUTY COPPER TUBE TERMINALS

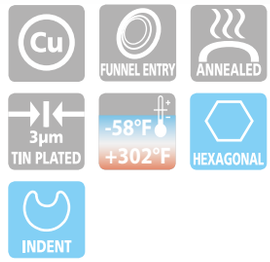
2A-2M

two hole fixing - for Copper conductors

File no. E125401



Cond. Size AWG	Ø Stud in.	Type	Dimensions in.							Quantity Box/Bag	Mechanical Tools		Hydraulic Tools								
			Øi	B	M	N	E	L	d		TN70SEY	TN120SEY	B450ND-BVA	HT45-E	B550CA	HT51	B500NDA	RH50	HT81-U	RHU81	B1300L-CA and similar tools for U dies	ECW-H3D	RHU520
2-1/0	1/2″	**2A10-2M12**	0.39	0.83	0.55	0.47	1.75	4.43	0.52	75/25													
1/0-2/0	1/2″	**2A14-2M12**	0.45	0.87	0.63	0.55	1.75	4.86	0.52	50/25													
	9/16″	**2A14-2M14**	0.45	0.98	0.71	0.63	1.75	5.02	0.59	75/25													
2/0-3/0	1/2″	**2A19-2M12**	0.53	0.98	0.63	0.55	1.75	5.04	0.52	50/25													
	9/16″	**2A19-2M14**	0.53	0.98	0.71	0.63	1.75	5.20	0.59	50/25													
3/0-250	1/2″	**2A24-2M12**	0.60	1.12	0.63	0.55	1.75	5.34	0.52	50/25													
	9/16″	**2A24-2M14**	0.60	1.12	0.71	0.63	1.75	5.49	0.59	50/25													
	5/8″	**2A24-2M16**	0.60	1.12	0.71	0.67	1.75	5.53	0.67	50/25													
250	1/2″	**2A30-2M12**	0.66	1.24	0.63	0.55	1.75	5.61	0.52	30/15													
300	9/16″	**2A30-2M14**	0.66	1.24	0.71	0.63	1.75	5.77	0.59	30/15													
MCM	5/8″	**2A30-2M16♦**	0.66	1.24	0.75	0.67	1.75	5.85	0.67	30/15													
300	1/2″	**2A37-2M12**	0.76	1.40	0.63	0.55	1.75	6.00	0.52	30/15													
350	9/16″	**2A37-2M14**	0.76	1.40	0.71	0.63	1.75	6.16	0.59	30/15													
MCM	5/8″	**2A37-2M16**	0.76	1.40	0.75	0.67	1.75	6.24	0.67	30/15													
350	1/2″	**2A48-2M12**	0.83	1.54	0.63	0.55	1.75	6.04	0.52	25/5													
500	9/16″	**2A48-2M14**	0.83	1.54	0.71	0.63	1.75	6.20	0.59	25/5													
MCM	5/8″	**2A48-2M16**	0.83	1.54	0.75	0.67	1.75	6.28	0.67	25/5													
500	1/2″	**2A60-2M12**	0.93	1.73	0.79	0.55	1.75	6.85	0.52	15/5													
600	9/16″	**2A60-2M14**	0.93	1.73	0.87	0.63	1.75	7.01	0.59	20/5													
MCM	5/8″	**2A60-2M16**	0.93	1.73	0.75	0.67	1.75	6.93	0.67	20/5													
800	1/2″	**2A80-2M12**	1.06	2.01	0.79	0.55	1.75	6.99	0.52	15/5													
MCM	9/16″	**2A80-2M14**	1.06	2.01	0.87	0.63	1.75	7.15	0.59	10/5													
	5/8″	**2A80-2M16**	1.06	2.01	0.87	0.75	1.75	7.26	0.67	15/5													
1000	1/2″	**2A100-2M12♦**	1.19	2.22	0.79	0.55	1.75	7.03	0.52	10/5													
MCM	9/16″	**2A100-2M14♦**	1.19	2.22	0.87	0.63	1.75	7.19	0.59	10/1													
	5/8″	**2A100-2M16♦**	1.19	2.22	0.87	0.75	1.75	7.30	0.67	8/1													
1250	1/2″	**2A120-2M12♦**	1.32	2.42	0.79	0.55	1.75	7.74	0.52	15/1													
MCM	9/16″	**2A120-2M14♦**	1.32	2.42	0.87	0.75	1.75	7.89	0.59	15/1													
	5/8″	**2A120-2M16♦**	1.32	2.42	0.87	0.75	1.75	8.01	0.67	15/1													
1500	1/2″	**2A160-2M12♦**	1.50	2.84	0.79	0.55	1.75	8.60	0.52	1													
MCM	9/16″	**2A160-2M14♦**	1.50	2.84	0.87	0.75	1.75	8.88	0.59	10/1													
	5/8″	**2A160-2M16♦**	1.50	2.84	0.95	0.75	1.75	8.96	0.67	10/1													
2000	1/2″	**2A200-2M12♦**	1.73	3.15	0.79	0.55	1.75	9.19	0.52	6/2													
MCM	9/16″	**2A200-2M14♦**	1.73	3.15	0.87	0.63	1.75	9.35	0.59	1													
	5/8″	**2A200-2M16♦**	1.73	3.15	0.87	0.75	1.75	9.47	0.67	5/1													
	3/4″	**2A200-2M20♦**	1.73	3.15	0.95	0.91	1.75	9.71	0.83	6/2													



The 2A-2M series cable lugs are designed for heavy duty, for grounding structures and equipment both indoors and outdoors and for medium voltage applications up to 35 kV.
2A-2M series terminals are made from high purity Copper tube with a purity greater than 99.9%, and are annealed to ensure ductility and satisfactory performance when subjected to deformation and vibration.
The tube dimensions are designed to optimise electrical conductivity and mechanical strength.
Double length barrels enhance electrical and mechanical performance in heavy duty applications.
Palms feature double stud holes at standard 1.75 in. centres.
Other configurations are available upon request.
The absence of an inspection hole prevents the ingress of water or moisture into the crimped joint making these terminals suitable for outdoor applications.
Lugs are electrolytically Tin plated to avoid oxidation.

Details of the appropriate crimping tools and dies are shown on pages 288 to 289.

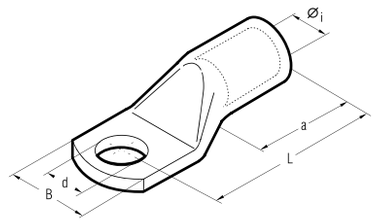
♦*Not UL approved*

CEMBRE

DR

COPPER TUBE CRIMPING LUGS ACCORDING TO DIN 46235

for Copper conductors



c UL us File no. E125401

Cu · FUNNEL ENTRY · ANNEALED · 3µm TIN PLATED · DIN 46235 · -58°F +302°F · HEXAGONAL

DR series lugs are manufactured from electrolytic Copper tube with a purity greater than 99.9% and designed to obtain high electrical conductivity combined with the mechanical strength required to resist vibration and pull out.
Cembre lugs are annealed and Tin plated for improved surface protection.
The annealing process optimises the structural features of the material allowing easier crimping and greater resistance to mechanical stresses.
Dimensions are according to DIN 46235.
The barrel entrance of the lug is chamfered to allow easy conductor insertion, while its length facilitates precise positioning in the crimping die.

Each lug is marked with:
- Cembre logo and part code.
- conductor type and csa (mm^2).
- stud Ø (mm).
- crimping die code

Details of the appropriate crimping tools and dies are shown on page 294 to 295.

Consult us for special requirements

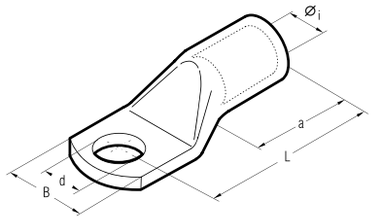
Conductor Size AWG	Ø Stud in.	Type	Code	Dimensions in. Øi	d	L	B	a	Quantity Box/Bag	Mechanical Tools: HN-D25	TNE-D50	TNE-D120	Hydraulic Tools: B15MA	B450ND-BVA	HT45-E	B550CA	B500NDA	HT51	RH50	B500A	HT81-U	RHU81	B1300L-CA and similar tools for U dies	ECW-H3D	RHU520
10	#10	DR6-5	5	0.15	0.21	0.98	0.33	0.39	800/100																
	1/4"	DR6-6	5	0.15	0.25	0.98	0.33	0.39	800/100																
	5/16"	DR6-8*	5	0.15	0.33	0.33	0.49	0.39	800/100																
8	#10	DR10-5	6	0.18	0.21	0.21	0.35	0.51	800/100																
	1/4"	DR10-6	6	0.18	0.25	0.25	0.35	0.51	800/100																
	5/16"	DR10-8*	6	0.18	0.33	0.33	0.51	0.51	800/100																
	3/8"	DR10-10*	6	0.18	0.41	0.41	0.51	0.51	800/100																
6	1/4"	DR16-6	8	0.22	0.25	0.25	0.51	0.79	400/100																
	5/16"	DR16-8	8	0.22	0.33	0.33	0.51	0.79	400/100																
	3/8"	DR16-10	8	0.22	0.41	0.41	0.67	0.79	400/100																
	1/2"	DR16-12*	8	0.22	0.51	0.51	0.75	0.79	400/100																
4	1/4"	DR25-6	10	0.28	0.25	0.25	0.55	0.79	400/100																
	5/16"	DR25-8	10	0.28	0.33	0.33	0.63	0.79	300/100																
	3/8"	DR25-10	10	0.28	0.41	0.41	0.67	0.79	200/100																
	1/2"	DR25-12	10	0.28	0.51	0.51	0.75	0.79	200/100																
2	1/4"	DR35-6*	12	0.32	0.25	0.25	0.67	0.79	200/100																
	5/16"	DR35-8	12	0.32	0.33	0.33	0.67	0.79	200/100																
	3/8"	DR35-10	12	0.32	0.41	0.41	0.75	0.79	200/100																
	1/2"	DR35-12	12	0.32	0.51	0.51	0.83	0.79	200/100																
	5/8"	DR35-16*	12	0.32	0.67	0.67	1.02	0.79	200/100																
1/0	1/4"	DR50-6*	14	0.39	0.25	0.25	0.79	1.10	100/25																
	5/16"	DR50-8	14	0.39	0.33	0.33	0.79	1.10	100/25																
	3/8"	DR50-10	14	0.39	0.41	0.41	0.87	1.10	100/25																
	1/2"	DR50-12	14	0.39	0.51	0.51	0.94	1.10	100/25																
	5/8"	DR50-16	14	0.39	0.67	0.67	1.1	1.10	100/25																
2/0	5/16"	DR70-8	16	0.45	0.33	0.33	0.94	1.10	50/25																
	3/8"	DR70-10	16	0.45	0.41	0.41	0.94	1.10	50/25																
	1/2"	DR70-12	16	0.45	0.51	0.51	0.94	1.10	50/25																
	5/8"	DR70-16	16	0.45	0.67	0.67	1.18	1.10	50/25																
	3/4"	DR70-20*	16	0.45	0.83	0.83	1.18	1.10	50/25																
3/0	5/16"	DR95-8*	18	0.53	0.33	0.33	1.1	1.38	50/25																
	3/8"	DR95-10	18	0.53	0.41	0.41	1.1	1.38	50/25																
	1/2"	DR95-12	18	0.53	0.51	0.51	1.1	1.38	50/25																
	5/8"	DR95-16	18	0.53	0.67	0.67	1.26	1.38	50/25																
	3/4"	DR95-20*	18	0.53	0.83	0.83	1.26	1.38	50/25																
250 MCM	5/16"	DR120-8*	20	0.61	0.33	0.33	1.18	1.38	50/25																
	3/8"	DR120-10	20	0.61	0.41	0.41	1.26	1.38	50/25																
	1/2"	DR120-12	20	0.61	0.51	0.51	1.26	1.38	30/15																
	5/8"	DR120-16	20	0.61	0.67	0.67	1.26	1.38	50/25																
	3/4"	DR120-20	20	0.61	0.83	0.83	1.5	1.38	50/25																
300 MCM	3/8"	DR150-10	22	0.67	0.41	0.41	1.34	1.38	30/15																
	1/2"	DR150-12	22	0.67	0.51	0.51	1.34	1.38	30/15																
	5/8"	DR150-16	22	0.67	0.67	0.67	1.34	1.38	40/20																
	3/4"	DR150-20	22	0.67	0.83	0.83	1.57	1.38	30/15																
350 MCM	3/8"	DR185-10	25	0.75	0.41	0.41	1.46	1.57	25/25																
	1/2"	DR185-12	25	0.75	0.51	0.51	1.46	1.57	25/25																
	5/8"	DR185-16	25	0.75	0.67	0.67	1.46	1.57	25/25																
	3/4"	DR185-20	25	0.75	0.83	0.83	1.57	1.57	25/25																
500 MCM	3/8"	DR240-10*	28	0.85	0.41	0.41	1.65	1.57	20/10																
	1/2"	DR240-12	28	0.85	0.51	0.51	1.65	1.57	20/10																
	5/8"	DR240-16	28	0.85	0.67	0.67	1.65	1.57	20/10																
	3/4"	DR240-20	28	0.85	0.83	0.83	1.77	1.57	20/10																

** Dimensions of the tube according to DIN 46235; Stud hole not included within the standard.*

COPPER TUBE CRIMPING LUGS ACCORDING TO DIN 46235

DR

for Copper conductors



Conductor Size AWG	Ø Stud in.	Type	Code	Dimensions in. Øi	d	L	B	a	Quantity Box/Bag
600 MCM	1/2"	DR300-12*	32	0.96	0.51	0.51	1.89	2.17	10/5
	5/8"	DR300-16	32	0.96	0.67	0.67	1.89	2.17	10/5
	3/4"	DR300-20	32	0.96	0.83	0.83	1.89	2.17	10/5
800 MCM	1/2"	DR400-12*♦	38	1.08	0.51	0.51	2.17	2.76	5/5
	5/8"	DR400-16♦	38	1.08	0.67	0.67	2.17	2.76	5/5
	3/4"	DR400-20♦	38	1.08	0.83	0.83	2.17	2.76	5/5
1000 MCM	1/2"	DR500-12*♦	42	1.22	0.51	0.51	2.36	2.76	5/5
	5/8"	DR500-16*♦	42	1.22	0.67	0.67	2.36	2.76	5/5
	3/4"	DR500-20♦	42	1.22	0.83	0.83	2.36	2.76	5/5
1250 MCM	3/4"	DR625-20♦	44	1.36	0.83	0.83	2.48	3.15	5/5
1500 MCM	3/4"	DR800-20♦	52	1.57	0.83	0.83	2.95	3.94	5/5
2000 MCM	3/4"	DR1000-20♦	58	1.73	0.83	0.83	3.35	3.94	5/5

Hydraulic Tools: RH50 B500A B500NDA; B1300L-CA and similar tools for U dies; ECW-H3D; RHU520

** Dimensions of the tube according to DIN 46235; Stud hole not included within the standard.*

♦Not UL approved

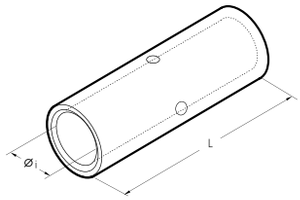
Cu · FUNNEL ENTRY · ANNEALED · 3µm TIN PLATED · DIN 46235 · -58°F +302°F · HEXAGONAL

Consult us for special requirements

CRIMPING THROUGH CONNECTORS ACCORDING TO DIN 46267 T.1

DSV

for Copper conductors



Conductor Size AWG	Type	Code	Dimensions in. Øi	L	Quantity Box/Bag
10	DSV6	5	0.15	1.18	1,200/100
8	DSV10	6	0.17	1.18	1,200/100
6	DSV16	8	0.22	1.97	400/100
4	DSV25	10	0.28	1.97	200/100
2	DSV35	12	0.32	1.97	200/100
1/0	DSV50	14	0.39	2.20	200/50
2/0	DSV70	16	0.45	2.20	100/50
3/0	DSV95	18	0.53	2.76	100/50
250 MCM	DSV120	20	0.61	2.76	50/25
300 MCM	DSV150	22	0.67	3.15	50/25
350 MCM	DSV185	25	0.75	3.35	25/25
500 MCM	DSV240	28	0.85	3.54	15/15
600 MCM	DSV300	32	0.96	3.94	10/5
800 MCM	DSV400	38	1.08	5.91	10/5
1000 MCM	DSV500	42	1.22	6.30	5/5
1250 MCM	DSV625	44	1.36	6.30	5/5
1500 MCM	DSV800	52	1.57	7.87	5/5
2000 MCM	DSV1000	58	1.73	7.87	5/5

Mechanical Tools: HN-D25; TNE-D50; TNE-D120

Hydraulic Tools: B15MA; B450ND-BVA; HT45-E; B550CA; HT51; B500NDA; B500A; RH50; HT81-U; RHU81; B1300L-CA and similar tools for U dies; ECW-H3D; RHU520

Cu · FUNNEL ENTRY · ANNEALED · 3µm TIN PLATED · DIN 46267T.1 · -58°F +302°F · HEXAGONAL

DSV series through connectors are manufactured from electrolytic Copper tube with a purity greater than 99.9%, annealed and surface protected by tin plating.
Internal and external dimensions match those of DR series lugs.
Chamfered ends and a central stop provide easy and correct insertion of the conductor.
Details of the appropriate crimping tools and dies are shown on page 294 to 295.

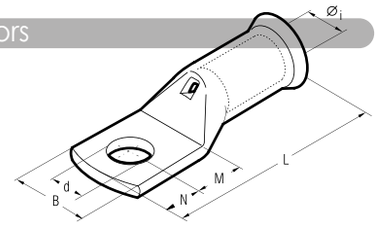
Consult us for special requirements

CEMBRE

T-M

COPPER TUBE CRIMPING LUGS ACCORDING TO NF C 20-130

for Copper conductors



T-M series lugs are manufactured from electrolytic Copper tube with a purity greater than 99.9%.
The dimensions of the tube are designed to obtain the most efficient electrical conductivity and mechanical strength to resist vibration and pull out.
Cembre lugs are annealed to guarantee optimum ductility which is an absolute necessity for connectors which will have to withstand the severe deformation arising when compressed and any bending of the palm during installation.
In applications subject to vibration, lugs still have to provide a reliable connection and annealing plays a vital role in avoiding cracking or breaks between the barrel and palm.
The insertion of the cable is facilitated by a tulip out
The presence of an inspection hole facilitates full insertion of the conductor, whilst the barrel length has been designed to allow easy and accurate positioning of the dies during the crimping operation.
Lugs are electrolytically Tin plated to avoid oxidation.
Our technicians are always available to provide any technical advice which may be required.
The enclosed table is only indicative of the range and many variations in stud fixing and palm lengths are also available.

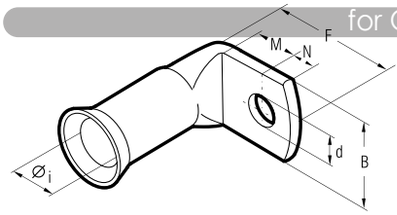
Details of the appropriate crimping tools and dies are shown on pages 290 to 291.

| Conductor Size AWG | | Ø Stud in. | Type | Dimensions in. | | | | | | Quantity Box/Bag | Mechanical Tools | | | | Hydraulic Tools | | | | | |

COPPER TUBE CRIMPING LUGS ANGLED 90°

for Copper conductors

T-L



Conductor Size AWG		Ø Stud in.	Type	Dimensions in.						Quantity Box/Bag	Mechanical Tools				Hydraulic Tools											
Low Str.	Flex			Øi	B	M	N	F*	d		HN1	HN5	HN-T25	TNE-T50	TNE-T120	B15MA	HT45-E	B450ND-BVA	HT51	RH50	B500A	B500NDA	HT81-U	RHU81	B1300L-CA and similar tools for U dies	ECW-H3D	RHU520
12÷10		1/4″	T6-L6	0.13	0.51	0.35	0.32	0.93	0.25	800/100																	
8		#10	T10-L5	0.17	0.43	0.24	0.24	0.80	0.21	800/100																	
		1/4″	T10-L6	0.17	0.43	0.32	0.32	0.98	0.25	800/100																	
		5/16″	T10-L8	0.17	0.55	0.43	0.39	1.13	0.33	800/100																	
6		1/4″	T16-L6	0.21	0.47	0.35	0.32	1.04	0.25	400/100																	
		5/16″	T16-L8	0.21	0.63	0.43	0.39	1.20	0.33	400/100																	
		3/8″	T16-L10	0.21	0.63	0.55	0.47	1.40	0.41	400/100																	
4		1/4″	T25-L6	0.26	0.51	0.35	0.32	1.10	0.25	400/100																	
		5/16″	T25-L8	0.26	0.63	0.43	0.39	1.26	0.33	400/100																	
		3/8″	T25-L10	0.26	0.63	0.55	0.47	1.46	0.41	400/100																	
2		1/4″	T35-L6	0.31	0.59	0.35	0.32	1.16	0.25	400/50																	
		5/16″	T35-L8	0.31	0.67	0.43	0.39	1.32	0.33	200/50																	
		3/8″	T35-L10	0.31	0.67	0.55	0.47	1.52	0.41	200/50																	
1/0		1/4″	T50-L6	0.36	0.71	0.35	0.32	1.24	0.25	100/25																	
		5/16″	T50-L8	0.36	0.71	0.39	0.39	1.40	0.33	200/25																	
		3/8″	T50-L10	0.36	0.71	0.55	0.47	1.59	0.41	100/25																	
2/0		5/16″	T70-L8	0.43	0.83	0.43	0.39	1.52	0.33	100/25																	
		3/8″	T70-L10	0.43	0.83	0.55	0.47	1.71	0.41	100/25																	
		1/2″	T70-L12	0.43	0.83	0.71	0.63	2.03	0.50	100/25																	
3/0		5/16″	T95-L8	0.52	0.91	0.43	0.39	1.61	0.33	100/25																	
		3/8″	T95-L10	0.52	0.91	0.55	0.47	1.81	0.41	100/25																	
		1/2″	T95-L12	0.52	0.91	0.71	0.63	2.13	0.50	100/25																	
250 MCM		3/8″	T120-L10	0.57	1.10	0.55	0.47	1.89	0.41	50/25																	
		1/2″	T120-L12	0.57	1.10	0.71	0.63	2.21	0.50	50/25																	
300 MCM		3/8″	T150-L10	0.64	1.18	0.55	0.47	1.97	0.41	40/10																	
		1/2″	T150-L12	0.64	1.18	0.71	0.63	2.28	0.50	40/10																	
350 MCM		3/8″	T185-L10	0.71	1.30	0.55	0.47	2.05	0.41	40/10																	

T-L series lugs angled 90° are manufactured from electrolytic Copper tube with a purity greater than 99.9%.
T-L series lugs having the same dimensions and characteristics as T-M series lugs.

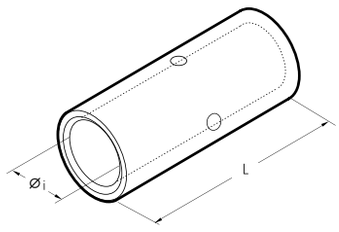
F* = indicative dimension

Details of the appropriate crimping tools and dies are shown on pages 290 to 291.

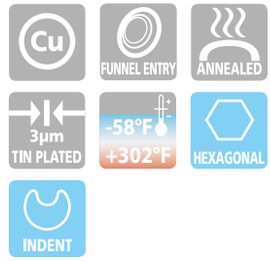
CRIMPING THROUGH CONNECTORS

for Copper conductors

L-T



Total Conductor Size AWG		Type	Dimensions in.		Quantity Box/Bag	Mechanical Tools					Hydraulic Tools															
Low Stranded	Flexible		Øi	L		HN1	HN5	HN-A25	TNE-T50	TNE-T120	B15MA	HT45-E	B450ND-BVA	HT51	RH50	B500A	B500NDA	HT81-U	RHU81	B1300L-CA and similar tools for U dies	ECW-H3D	RHU520
12	12	L4-T	0.11	0.87	2.000/100																			
12÷10	12÷10	L6-T	0.13	0.98	1.500/100																			
8	8	L10-T	0.17	1.06	1.000/100																			
6	6	L16-T	0.21	1.22	500/100																			
4	4	L25-T	0.26	1.38	500/100																			
2	4	L35-T	0.31	1.46	250/50																			
1/0	2	L50-T	0.36	1.77	250/50																			
2/0	1/0	L70-T	0.43	1.97	200/50																			
3/0	2/0	L95-T	0.52	2.2	100/25																			
250 MCM	3/0	L120-T	0.57	2.36	100/25																			
300 MCM	250 MCM	L150-T	0.64	2.6	50/25																			
350 MCM	300 MCM	L185-T	0.71	2.95	50/25																			
500 MCM	350 MCM	L240-T	0.81	3.15	30/15																			
600 MCM	500 MCM	L300-T	0.91	3.54	20/10																			
800 MCM	600 MCM	L400-T	1.03	3.94	20/5																			

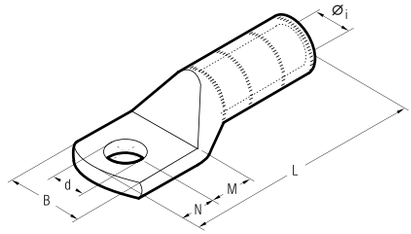


Made of electrolytic Copper tube with a purity greater than 99.9%, having the same dimensions as T-M series lugs, L-T connectors are annealed and electrolytically Tin plated. They feature an internal taper to ease the introduction of the conductor.
Details of the appropriate crimping tools and dies are shown on pages 290 to 291.

CEMBRE

CA-M
2A-M

MEDIUM VOLTAGE COPPER TERMINALS



Cu · ANNEALED · 3µm TIN PLATED · -58°F +302°F · CIRCULAR · HEXAGONAL

Series CA-M and 2A-M terminals are designed for medium voltage applications up to 35 kV.
They are manufactured from high purity Copper tube with a purity greater than 99.9%, annealed and Tin plated.
The extended barrel enhances both electrical and mechanical performance. The absence of an inspection hole prevents moisture entry into the crimped joint and makes these terminals suitable for outdoor applications.
Details of the appropriate crimping tools and dies are shown on page 296.

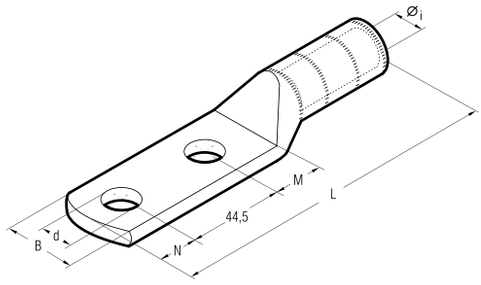
Conductor Size sqmm	Ø Stud in.	Type	Dimensions in.						Quantity Box/Bag	Hydraulic Tools															
			Øi	B	M	N	L	d		HT51	RH50	B500A	B500NDA	B550CA	HT81-U	RHU81	B1300L-CA and similar tools for U dies	ECW-H3D	RHU520						
25 R	5/16″	**CA25-M8**	0.27	0.55	0.35	0.31	2.56	0.33	*300/50*																
	3/8″	**CA25-M10**	0.27	0.71	0.51	0.43	2.83	0.41	*200/50*																
	1/2″	**CA25-M12**	0.27	0.83	0.63	0.55	3.07	0.52	*150/50*																
30 RC/S ÷ 40 S	1/2″	**CA40S-M12**	0.32	0.83	0.63	0.55	3.11	0.52	*100/50*																
	5/8″	**CA40S-M16**	0.32	1.02	0.75	0.67	3.35	0.67	*100/50*																
50 RC	1/2″	**CA50R-M12**	0.34	0.81	0.63	0.55	3.11	0.52	*100/50*																
50 S	1/2″	**CA50S-M12**	0.37	0.83	0.63	0.55	3.11	0.52	*100/50*																
	5/8″	**CA50S-M16**	0.37	1.02	0.75	0.67	3.35	0.67	*100/50*																
63 S ÷ 70 S	1/2″	**CA70S-M12**	0.43	1.10	0.63	0.55	3.20	0.52	*30/15*																
	1/2″	**CA70S-M16**	0.43	1.18	0.75	0.67	3.43	0.67	*50/25*																
80 S ÷ 95 RC	1/2″	**CA95R-M12**	0.47	1.10	0.63	0.55	3.58	0.52	*30/15*																
	9/16″	**CA95R-M14**	0.47	1.10	0.71	0.63	3.74	0.59	*50/25*																
95 S ÷ 100 S	1/2″	**CA95S-M12**	0.53	1.10	0.63	0.55	3.58	0.52	*30/15*																
	9/16″	**CA95S-M14**	0.53	1.14	0.71	0.63	3.72	0.59	*50/25*																
	5/8″	**CA95S-M16**	0.53	1.18	0.79	0.67	3.82	0.67	*50/25*																
120 RC/S ÷ 150 RC	1/2″	**CA150R-M12**	0.59	1.22	0.63	0.55	3.82	0.52	*30/15*																
	9/16″	**CA150R-M14**	0.59	1.22	0.71	0.63	3.98	0.59	*30/15*																
150 S ÷ 160 RC	1/2″	**CA150S-M12**	0.65	1.26	0.63	0.55	3.82	0.52	*30/15*																
	9/16″	**CA150S-M14**	0.65	1.26	0.71	0.63	3.98	0.59	*30/15*																
160 S ÷ 200 RC	9/16″	**CA200R-M14**	0.67	1.28	0.71	0.63	3.98	0.59	*30/15*																
200 S ÷ 240 RC	9/16″	**CA240R-M14**	0.76	1.69	0.71	0.63	4.21	0.59	*15/5*																
240 S ÷ 315 RC	9/16″	**CA315R-M14**	0.84	1.69	0.71	0.63	4.13	0.59	*15/5*																
315 S	9/16″	**CA315S-M14**	0.93	1.73	0.71	0.63	4.13	0.59	*15/5*																
400 R	9/16″	**2A80-M14***	1.10	2.01	0.87	0.75	5.51	0.59	*15/5*																
	5/8″	**2A80-M16***	1.10	2.01	0.87	0.75	5.51	0.67	*15/5*																
	3/4″	**2A80-M20***	1.10	2.01	0.94	0.91	5.75	0.83	*15/5*																
500 R	5/8″	**2A100-M16**	1.20	2.22	0.87	0.75	5.79	0.67	*10/1*																
	3/4″	**2A100-M20**	1.20	2.22	0.94	0.91	6.02	0.83	*10/1*																
600 R ÷ 630 R	5/8″	**2A120-M16**	1.31	2.42	0.87	0.75	6.26	0.67	*20/1*																
	3/4″	**2A120-M20**	1.31	2.42	0.94	0.91	6.50	0.83	*20/1*																

**UL marking* *R = Round conductors RC = Round Compact conductors S = Sector shaped conductors*

MEDIUM VOLTAGE COPPER TERMINALS

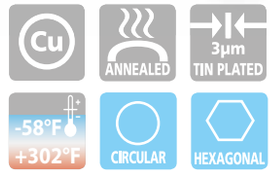
two hole fixing

CA-2M
2A-2M



Conductor Size sqmm	Ø Stud in.	Type	Dimensions in.						Quantity Box/Bag	Hydraulic Tools				
			Øi	B	M	N	L	d		HT51 RH50 B500A B550CA B500NDA	HT81-U RHU81	B1300L-CA and similar tools for U dies	ECW-H3D	RHU520
25 R	5/16″	**CA25-2M8**	0.27	0.55	0.39	0.43	4.47	0.33	*200/50*					
	1/2″	**CA25-2M12**	0.27	0.83	0.63	0.55	4.82	0.52	*100/50*					
30 RC/S ÷ 40 S	1/2″	**CA40S-2M12**	0.32	0.85	0.63	0.55	4.86	0.52	*100/50*					
50 RC	1/2″	**CA50R-2M12**	0.34	0.81	0.63	0.55	4.86	0.52	*100/50*					
50 S	1/2″	**CA50S-2M12**	0.37	0.83	0.63	0.55	4.86	0.52	*100/50*					
63 S ÷ 70 S	1/2″	**CA70S-2M12**	0.43	1.02	0.63	0.55	4.94	0.52	*50/25*					
80 S ÷ 95 RC	9/16″	**CA95R-2M14**	0.47	1.10	0.71	0.63	5.49	0.59	*30/15*					
95 S ÷ 100 S	9/16″	**CA95S-2M14**	0.53	1.14	0.71	0.63	5.49	0.59	*30/15*					
120 RC/S ÷ 150 RC	9/16″	**CA150R-2M14**	0.59	1.22	0.71	0.63	5.73	0.59	*30/15*					
150 S ÷ 160 RC	9/16″	**CA150S-2M14**	0.65	1.26	0.71	0.63	5.73	0.59	*30/15*					
160 S ÷ 200 RC	9/16″	**CA200R-2M14**	0.67	1.28	0.71	0.63	5.71	0.59	*30/15*					
200 S ÷ 240 RC	9/16″	**CA240R-2M14**	0.76	1.69	0.71	0.63	5.96	0.59	*15/5*					
240 S ÷ 315 RC	9/16″	**CA315R-2M14**	0.84	1.69	0.71	0.63	5.89	0.59	*20/5*					
315 S	9/16″	**CA315S-2M14**	0.93	1.73	0.71	0.63	5.89	0.59	*20/5*					
400 R	1/2″	**2A80-2M12***	1.10	2.01	0.79	0.55	6.99	0.52	*15/5*					
	9/16″	**2A80-2M14***	1.10	2.01	0.87	0.63	7.15	0.59	*15/5*					
	5/8″	**2A80-2M16***	1.10	2.01	0.87	0.75	7.26	0.67	*15/5*					
500 R	9/16″	**2A100-2M14**	1.20	2.22	0.87	0.63	7.18	0.59	*10/5*					
	5/8″	**2A100-2M16**	1.20	2.22	0.87	0.75	7.30	0.67	*10/5*					
600 R ÷ 630 R	9/16″	**2A120-2M14**	1.31	2.42	0.87	0.63	7.89	0.59	*15/5*					
	5/8″	**2A120-2M16**	1.31	2.42	0.87	0.75	7.97	0.67	*15/5*					

**UL marking* *R = Round conductors RC = Round Compact conductors S = Sector shaped conductors*

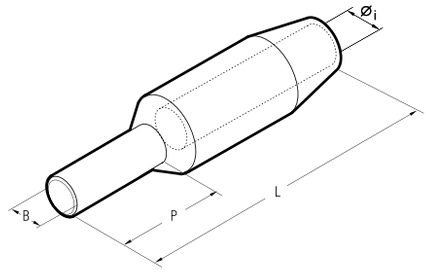


CA-2M and 2A-2M Copper Tube Terminal Lugs are designed for medium voltage applications up to 35 kV. Manufactured from high purity Copper tube with a purity greater than 99.9%, annealed and Tin plated. The extended barrel enhances electrical and mechanical performance.
The absence of an inspection hole prevents moisture entry into the crimped joint. Featuring an extended palm with two fixing holes at 44.5 mm centres.
Details of the appropriate crimping tools and dies are shown on page 296.

CEMBRE

MT-C

MEDIUM VOLTAGE STALK CONNECTORS



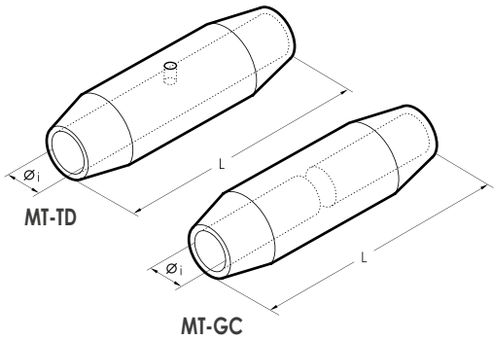
MT-C series connectors are designed for medium voltage applications up to 35 kV.
They are manufactured from high purity Copper with a purity greater than 99.9%, annealed and Tin plated.
The extended barrel enhances both electrical and mechanical performance.
The stalk or pin makes these connectors ideal for terminating conductors into contact blocks.
Details of the appropriate crimping tools and dies are shown on page 296.

Conductor Size sqmm	Type	Dimensions in.				Quantity Box/Bag	Hydraulic Tools				
		Øi	B	P	L		HT51 RH50 B500A B500NDA B550CA	HT81-U RHU81	B1300L-CA and similar tools for U dies	ECW-H3D	RHU520
25 R	**MT25-C8**	0.27	0.31	1.38	3.15	*90/3*					
30 RC/S ÷ 40 S	**MT40S-C8**	0.32	0.31	1.38	3.15	*90/3*					
	MT40S-C10	0.32	0.39	1.38	3.15	*90/3*					
	MT40S-C14-80	0.32	0.55	3.15	4.84	*30/3*					
50 RC	**MT50R-C8**	0.35	0.31	1.38	3.15	*90/3*					
	MT50R-C10	0.35	0.39	1.38	3.15	*90/3*					
50 S	**MT50S-C8**	0.37	0.31	1.38	3.15	*90/3*					
	MT50S-C10	0.37	0.39	1.38	3.15	*90/3*					
	MT50S-C14-80	0.37	0.55	3.15	4.84	*30/3*					
63 S ÷ 70 S	**MT70S-C10**	0.44	0.39	1.38	3.54	*30/3*					
80 S ÷ 95 RC	**MT95R-C10**	0.47	0.39	1.77	4.33	*60/3*					
	MT95R-C12	0.47	0.47	1.77	4.33	*60/3*					
95 S ÷ 100 S	**MT95S-C10**	0.53	0.39	1.77	4.33	*60/3*					
	MT95S-C12	0.53	0.47	1.77	4.33	*60/3*					
	MT95S-C14-80	0.53	0.55	3.15	5.71	*60/3*					
120 RC/S ÷ 150 RC	**MT150R-C12**	0.59	0.47	1.77	4.33	*60/3*					
	MT150R-C16	0.59	0.63	1.77	4.33	*30/3*					
150 S ÷ 160 RC	**MT150S-C12**	0.65	0.47	1.77	4.33	*60/3*					
	MT150S-C14-80	0.65	0.55	3.15	5.71	*45/3*					
	MT150S-C16	0.65	0.63	1.77	4.33	*30/3*					
160 S ÷ 200 RC	**MT200R-C10**	0.67	0.39	1.77	4.33	*30/3*					
	MT200R-C16	0.67	0.63	1.77	4.33	*30/3*					
200 S ÷ 240 RC	**MT240R-C12**	0.77	0.47	1.97	4.53	*30/3*					
	MT240R-C16	0.77	0.63	1.97	4.53	*30/3*					
240 S ÷ 315 RC	**MT315R-C16**	0.85	0.63	1.97	4.53	*30/3*					
315 S	**MT315S-C16**	0.94	0.63	2.36	5.12	*30/3*					

R = Round conductors RC = Round Compact conductors S = Sector shaped conductors

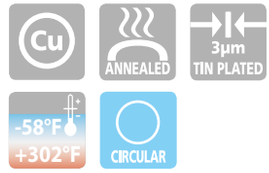
MEDIUM VOLTAGE COPPER THROUGH CONNECTORS

MT-TD
MT-GC



Conductor Size sqmm	Type	Type	Dimensions in.		Quantity Box/Bag	Hydraulic Tools				
			Øi	L		HT51 RH50 B500A B500NDA B550CA	HT81-U RHU81	B1300L-CA and similar tools for U dies	ECW-H3D	RHU520
25 R	**MT25-TD**	**MT25-GC**	0.27	2.36	*90/3*					
30 RC/S ÷ 40 S	**MT40S-TD**	**MT40S-GC**	0.32	2.36	*90/3*					
50 RC	**MT50R-TD**	**MT50R-GC**	0.34	2.36	*90/3*					
50 S	**MT50S-TD**	**MT50S-GC**	0.37	2.36	*90/3*					
63 S ÷ 70 S	**MT70S-TD**	**MT70S-GC**	0.43	2.76	*30/3*					
80 S ÷ 95 RC	**MT95R-TD**	**MT95R-GC**	0.47	3.15	*30/3*					
95 S ÷ 100 S	**MT95S-TD**	**MT95S-GC**	0.53	3.15	*30/3*					
120 RC/S ÷ 150 RC	**MT150R-TD**	**MT150R-GC**	0.59	3.15	*30/3*					
150 S ÷ 160 RC	**MT150S-TD**	**MT150S-GC**	0.65	3.15	*30/3*					
160 S ÷ 200 RC	**MT200R-TD**	**MT200R-GC**	0.67	3.94	*30/3*					
200 S ÷ 240 RC	**MT240R-TD**	**MT240R-GC**	0.76	3.94	*21/3*					
240 S ÷ 315 RC	**MT315R-TD**	**MT315R-GC**	0.85	3.94	*21/3*					
315 S	**MT315S-TD**	**MT315S-GC**	0.93	3.94	*21/3*					
400 R	**MT400-TD**		1.06	4.72	*15/3*					
500 R	**MT500-TD**		1.19	4.65	*12/3*					
600 R ÷ 630 R	**MT630-TD**		1.31	5.12	*9/3*					

R = Round conductors RC = Round Compact conductors S = Sector shaped conductors



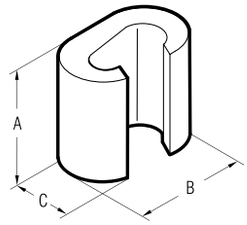
MT-TD and MT-GC series connectors are designed to join conductors in medium voltage applications up to 35 kV.
They are manufactured from high purity Copper with a purity greater than 99.9%, annealed and Tin plated.
MT-GC series feature a solid stop which forms a barrier between the two conductors being joined, this prevents the migration of oils or greases, which may be present, in one cable contaminating the other cable.
MT-TD connectors are unblocked and are suitable for joining cables of the same type.
Details of the appropriate crimping tools and dies are shown on page 296.

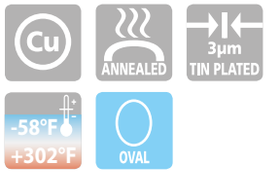
CEMBRE

C-C

SLEEVE CONNECTORS

Tin plated version





"C" connectors are manufactured from high purity Copper profiles with a purity greater than 99.9% and are suitable for a variety of uses either to create an earthing network or tapping off from overhead distribution lines.

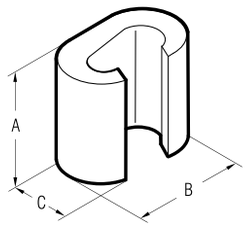
Each connector is marked as follows:
- Cembre trade mark
- Reference number
- Conductor size-Run
- Conductor size-Tap
- Number of crimps
- Die reference.

Details of the appropriate crimping tools and dies are shown on page 287.

Conductor Size AWG		Type	Dimensions in.			Quantity Box/Bag	Mechanical Tools	Hydraulic Tools								
Run	Tap		A	B	C			HT45-E	B450ND-BVA	B500NDA	B550CA	B500A	RH50	RHU81	HT81-U	HT51	B1300L-CA and similar tools for U dies	ECW-H3D
#9÷#13	#9÷#15	**C6-C6ST**	0.35	0.39	0.25	*1,000/100*	**HP4-C10**											
#7	#7÷#15	**C10-C10ST**	0.47	0.50	0.33	*500/100*												
#5	#5÷#15	**C16-C16ST**	0.67	0.76	0.47	*500/100*												
#3÷#5	#7÷#15	**C25-C10ST**	0.67	0.78	0.51	*400/50*												
#3	#3÷#5	**C25-C25ST**	0.67	0.84	0.51	*300/50*												
#1÷#2	#5÷#15	**C35-C16ST**	0.83	0.97	0.61	*200/25*												
#1÷#2	#1÷#3	**C35-C35ST**	0.83	1.05	0.61	*200/25*												
1/0	#3÷#7																	
2/0	#3÷#15	**C70-C25NST**	0.83	1.04	0.69	*200/25*												
1/0	#3÷#11	**C50-C25ST**	0.98	1.30	0.83	*100/25*												
1/0	1/0÷#2	**C50-C50ST**	1.02	1.30	0.83	*100/25*												
2/0÷1/0	#1	**C70-C35ST**	1.10	1.30	0.83	*100/25*												
2/0÷1/0	2/0÷#11	**C70-C70ST**	1.10	1.34	0.83	*100/25*												
4/0	#1	**C95-C35ST**	1.14	1.60	1.02	*50/25*												
4/0	2/0	**C95-C70ST**	1.14	1.61	1.02	*50/25*												
4/0	4/0	**C95-C95ST**	1.14	1.61	1.02	*50/25*												
250÷4/0	250÷#3	**C120-C120ST**	1.18	1.77	1.10	*30/15*												
300 MCM	250÷#3	**C150-C120ST**	1.22	1.77	1.10	*50/25*												
250 MCM	250 MCM																	
300 MCM	300 MCM	**C150-C150ST**	1.18	1.77	1.10	*50/25*												
250 MCM	250 MCM																	
350 MCM	4/0÷#5	**C185-C95ST**	1.22	1.77	1.10	*30/15*												
350÷250 MCM	350÷250 MCM	**C185-C185ST**	0.89	2.68	1.34	*30/15*												
500÷300 MCM	250÷2/0	**C240-C120ST**	0.89	2.68	1.34	*30/15*												

SLEEVE CONNECTORS

Bright surface version

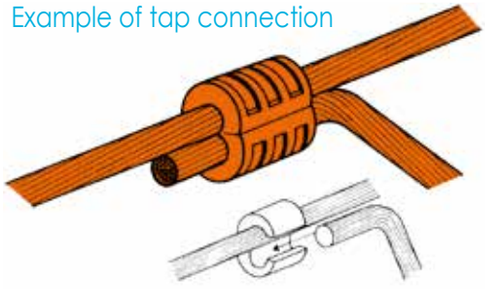


Conductor Size AWG		Type	Dimensions in.			Quantity Box/Bag	Mechanical Tools	Hydraulic Tools								
Run	Tap		A	B	C			HT45-E	B450ND-BVA	B500NDA	B550CA	B500A	RHU81	HT81-U	RH50	HT51	B1300J-CA and similar tools for U dies	ECW-H3D
#9÷#13	#9÷#15	**C6-C6**	0.35	0.39	0.25	*1,000/100*	HP4-C10											
#7	#7÷#15	**C10-C10**	0.47	0.50	0.33	*500/100*												
#5	#5÷#15	**C16-C16**	0.67	0.76	0.47	*500/100*												
#3÷#5	#7÷#15	**C25-C10**	0.67	0.78	0.51	*400/50*												
#3	#3÷#5	**C25-C25**	0.67	0.84	0.51	*300/50*												
#1÷#2	#5÷#15	**C35-C16**	0.83	0.97	0.61	*200/25*												
#1÷#2	#1÷#3	**C35-C35**	0.83	1.05	0.61	*200/25*												
1/0	#3÷#7																	
2/0	#3÷#15	**C70-C25N**	0.83	1.04	0.69	*200/25*												
1/0	#3÷#11	**C50-C25**	0.98	1.30	0.83	*100/25*												
1/0	1/0÷#2	**C50-C50**	1.02	1.30	0.83	*100/25*												
2/0÷1/0	#1	**C70-C35**	1.10	1.30	0.83	*100/25*												
2/0÷1/0	2/0÷#11	**C70-C70**	1.10	1.34	0.83	*100/25*												
4/0	#1	**C95-C35**	1.14	1.60	1.02	*50/25*												
4/0	2/0	**C95-C70**	1.14	1.61	1.02	*50/25*												
4/0	4/0	**C95-C95**	1.14	1.61	1.02	*50/25*												
250÷4/0	250÷#3	**C120-C120**	1.18	1.77	1.10	*30/15*												
300 MCM	250÷#3	**C150-C120**	1.22	1.77	1.10	*30/15*												
250 MCM	250 MCM																	
300 MCM	300 MCM	**C150-C150**	1.18	1.77	1.10	*30/15*												
250 MCM	250 MCM																	
350 MCM	4/0÷#5	**C185-C95**	1.22	1.77	1.10	*50/25*												
350÷250 MCM	350÷250 MCM	**C185-C185**	0.89	2.68	1.34	*30/15*												
500÷300 MCM	250÷2/0	**C240-C120**	0.89	2.68	1.34	*30/15*												

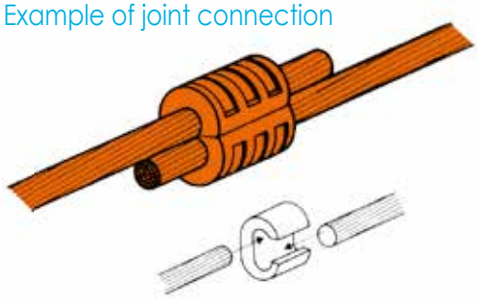
Cu ANNEALED -58°F +302°F OVAL

Featuring same characteristics of tin plated version, (see opposite page).

Example of tap connection

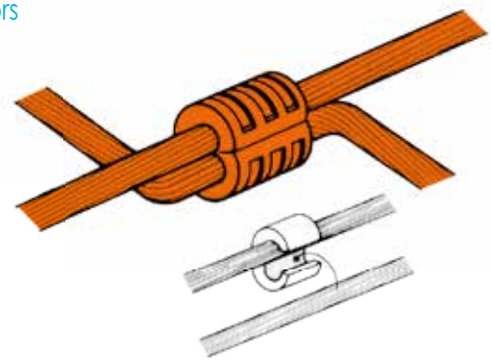


Example of joint connection



Example of joining two running conductors

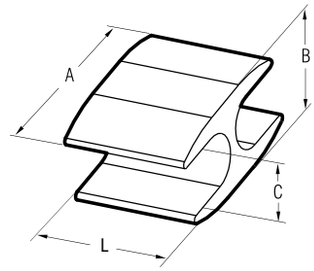
Conductor Size AWG	Type
3-3	**C35-C16**
2-2	**C35-C35**
1/0-1/0	**C70-C70**
2/0-2/0	**C95-C70**
3/0-3/0	**C150-C120**
250-250 MCM	
300-300 MCM	**C150-C150**
250 MCM-250 MCM	**C185-C95**



H-H

H CLAMPS

for Copper conductors



tin plated version

Conductor Size AWG		Type	Dimensions in.				Quantity	Hydraulic Tools		
Run	Tap		A	B	C	L				
2/0	2/0	**H70-H70ST**	1.34	0.67	0.43	1.10	*25*	B1300L-CA and similar tools for U dies	ECW-H3D	RHU520
4/0	4/0	**H95-H95ST**	1.57	0.87	0.51	1.18	*25*			
250 MCM	250 MCM	**H120-H120ST**	1.69	0.94	0.61	0.98	*15*			

bright surface version

Conductor Size AWG		Type	Dimensions in.				Quantity	Hydraulic Tools		
Run	Tap		A	B	C	L				
2/0	2/0	**H70-H70**	1.34	0.67	0.43	1.10	*25*	B1300L-CA and similar tools for U dies	ECW-H3D	RHU520
4/0	4/0	**H95-H95**	1.57	0.87	0.51	1.18	*25*			
250 MCM	250 MCM	**H120-H120**	1.69	0.94	0.61	0.98	*15*			

H clamps are manufactured from Copper profiles with a purity greater than 99.9%, and are suitable for a earthing systems.
Each connector is marked as follows:
- Cembre trade mark
- Reference number

features:
- H shape
- For Copper conductors DIN 48201
- Material: Cu ETP (CW004A) according to EN 13605
- Surface: bright and tin plated version
- Electrolytically tin plated to avoid oxidation; min 3µm

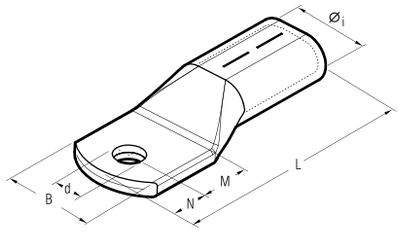
Details of the appropriate crimping tools and dies are shown on page 296.

TWIN CABLE TERMINAL LUGS FOR ROUND CONDUCTORS

DK

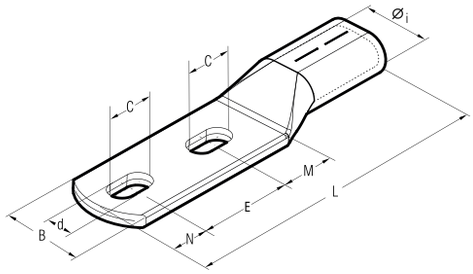
for Copper conductors

with an M12 hole



Conductor Size AWG	Type	Dimensions in.						Quantity	Hydraulic Tools		
		Øi	B	M	N	L	d				
2 x 1/0	**DK50-M12**	0.81x0.42	1.34	0.87	0.57	3.68	0.51	*10*	B1300L-CA and similar tools for U dies	ECW-H3D	RHU520
2 x 2/0	**DK70-M12**	0.90x0.47	1.47	0.87	0.57	3.84	0.51	*10*			
2 x 4/0	**DK95 -M12**	1.04x0.50	1.65	0.90	0.63	4.25	0.51	*10*			
2 x 250 MCM	**DK120-M12**	1.16x0.61	1.89	0.94	0.57	4.55	0.51	*5*			

with 2 elongated holes



Conductor Size AWG	Type	Dimensions in.								Quantity	Hydraulic Tools		
		Øi	B	M	N	E	L	C	d				
2 x 2/0	**DK70-2M12-51AS**	0.90x0.47	1.47	1.00	0.85	2.00	6.26	0.94	0.51	*10*	B1300L-CA and similar tools for U dies	ECW-H3D	RHU520
2 x 4/0	**DK95-2M12-51AS**	1.04x0.50	1.65	1.00	0.85	2.00	6.57	0.94	0.51	*10*			
2 x 250 MCM	**DK120-2M12-51AS**	1.16x0.61	1.89	1.00	0.85	2.00	6.89	0.94	0.51	*10*			

DK compression cable lugs are made from Copper tube with a purity greater than 99.9% and are suitable for the compression of 2 round conductors.
Cable lugs with an M12 hole or with 2 elongated holes are available (see tables). The elongated holes 2xM12 allow easy assembly with different fastening points. This enables flexible use in earthing systems.

features:

- For copper conductors DIN 48201
- Material: Cu ETP (CW004A) according to EN13605
- Electrolytically tin plated to avoid oxidation; min 3µm
- Marking: Cembre logo; Type, die type (MRD ..- C); Press positions

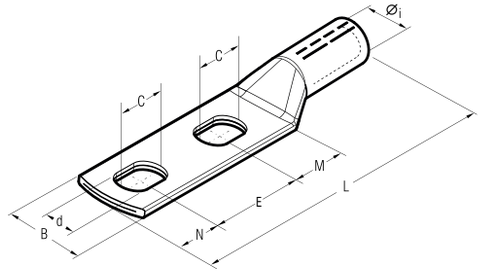
Details of the appropriate crimping tools and dies are shown on page 296.

CEMBRE

DR-2M12-51AS

COPPER TUBE CRIMPING LUGS WITH 2 HOLE FIXING

for Copper conductors



NEW · Cu · ANNEALED · 3µm TIN PLATED · -58°F +302°F · HEXAGONAL

DR compression cable lugs are made from Copper tube with a purity greater than 99.9%.
They are available with 2 slotted holes (see tables).
The slotted holes 2xM12 enable easy installation with different attachment points.

features:

- For copper conductors DIN 48201
- Material: Cu ETP (CW004A) according to EN13605
- Electrolytically tin plated to avoid oxidation; min 3µm
- Marking: Cembre logo; Type, die type (MK..); Press positions

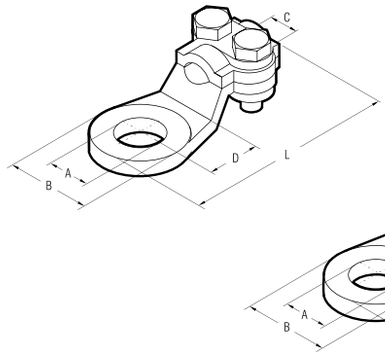
Details of the appropriate crimping tools and dies are shown on page 296.

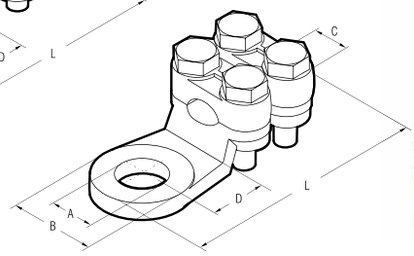
with 2 elongated holes

Conductor Size AWG	Type	Dimensions in.								Quantity	Mechanical Tools		Hydraulic Tools						
		Øi	B	M	N	E	L	C	d		TND6-70	TND 10-120	HT45-E B450ND-BVA	HT51 RH50 B500A B500NDA B550CA	HT81-U RHU81	B130DL-CA and similar tools for U dies	ECW-H3D	RHU520
2/0	**DR70-2M12-51AS**	0.45	0.94	1.0	0.85	2.0	5.51	0.94	0.51	*10*									
4/0	**DR95-2M12-51AS**	0.53	1.10	1.0	0.85	2.0	5.90	0.94	0.51	*10*									
250 MCM	**DR120-2M12-51AS**	0.61	1.26	1.0	0.85	2.0	5.94	0.94	0.51	*10*									

MECHANICAL FIXING LUGS

21..





2 bolt fixing lugs

Conductor Size AWG	Type	Clamping Bolt Ø	Clamping Bolt Torque Ratio Nm	Ø A Bolt	Dimensions in. B	C	D	L	Quantity
6	**2155**	M5	3	**M8**	0.71	0.18	0.49	1.54	*100*
6	**2171**	M5	3	**M10**	0.71	0.18	0.49	1.54	*100*
4	**2156**	M5	3	**M8**	0.77	0.24	0.51	1.69	*100*
4	**2172**	M5	3	**M10**	0.77	0.24	0.51	1.69	*100*
2	**2157**	M5	3	**M12**	0.91	0.28	0.59	1.93	*50*
2	**2173**	M5	3	**M14**	0.91	0.28	0.59	1.93	*50*
2-1/0	**2174**	M6	5	**M14**	0.98	0.31	0.67	2.20	*50*

Material:
Brass CB754S EN 1982 Nickel plated.
Zinc plated Steel bolts.

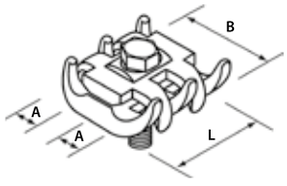
4 bolt fixing lugs

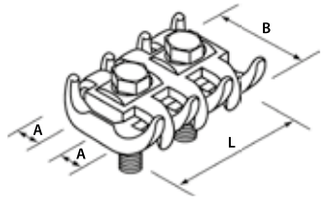
Conductor Size AWG	Type	Clamping Bolt Ø	Clamping Bolt Torque Ratio Nm	Ø A Bolt	Dimensions in. B	C	D	L	Quantity
1/0	**2158**	M6	5	**M12**	0.93	0.31	0.63	2.24	*50*
2/0	**2160**	M6	5	**M12**	1.10	0.39	0.79	2.56	*25*
2/0	**2176**	M6	5	**M16**	1.10	0.39	0.79	2.56	*25*
3/0	**2161***	M6	5	**M12**	1.22	0.51	0.67	2.60	*25*
250 MCM	**2162***	M7	10	**M15**	1.30	0.55	0.71	2.80	*25*
300 MCM	**2163***	M7	10	**M14**	1.34	0.63	0.77	2.95	*25*
350 MCM	**2164***	M7	10	**M15**	1.42	0.63	0.83	3.07	*25*

** Versions with U-bolts in bent steel*

CABLE CLAMPS

23..





Single bolt fixing

Conductor Size AWG	Type	Clamping Bolts Ø	Clamping Bolts Torque Ratio Nm	A for Cable in.	Dimensions in. B	L	Quantity
10÷6	**2323**	M6	8	**0.12÷ 0.20**	0.94	0.79	*50*
6÷1/0	**2326**	M8	15	**0.20÷ 0.31**	1.26	1.12	*50*
2÷2/0	**2329**	M8	15	**0.28÷0.47**	1.54	1.18	*25*

2 bolt fixing

Conductor Size AWG	Type	Clamping Bolts Ø	Clamping Bolts Torque Ratio Nm	A for Cable in.	Dimensions in. B	L	Quantity
10÷6	**2333**	M6	8	**0.12÷0.20**	0.96	1.18	*50*
6÷1/0	**2336**	M8	15	**0.20÷0.31**	1.26	1.57	*50*
2÷2/0	**2339**	M8	15	**0.28÷0.47**	1.54	1.69	*25*
1/0÷3/0	**2342**	M10	35	**0.31÷0.55**	1.89	1.89	*10*
3/0÷300	**2344**	M10	35	**0.55÷0.63**	2.01	2.09	*10*
300÷400-600	**2346***	M12	60	**0.63÷0.87**	2.60	2.60	*5*

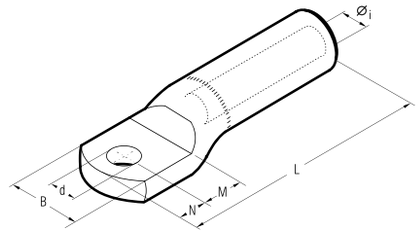
** Stainless Steel bolts*

Material:
Brass CB754S EN 1982
White zinc plated Steel bolts.
White zinc plated Steel nuts.

CEMBRE

AA-M

ALUMINUM TERMINALS



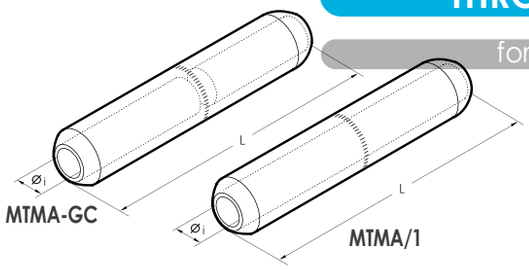
AA-M series terminals are made from Aluminum of a purity equal to or greater than 99.5%.
They are designed to accept a variety of conductor forms especially low stranded compacted conductors.
Non circular conductors may require pre-rounding prior to introduction to the terminal.
Barrels are capped and filled with grease so as to avoid oxidation of the Aluminum.
Details of the appropriate crimping tools and dies are shown on page 297, 299.

Conductor Size AWG	Ø Stud in.	Type	Dimensions in.						Quantity Box/Bag	Hydraulic Tools				
			Øi	B	M	N	L	d						
6	5/16″	**AA16-M8**	0.22	0.83	0.51	0.43	3.03	0.33	*60/3*	B1300-UCA				
4	5/16″	**AA25-M8**	0.26	0.83	0.51	0.43	3.03	0.33	*60/3*					
2	5/16″	**AA35-M8**	0.31	0.91	0.51	0.43	3.05	0.33	*60/3*					
	3/8″	**AA35-M10**	0.31	0.91	0.51	0.43	3.05	0.41	*60/3*					
1/0	1/2″	**AA50-M12**	0.35	1.02	0.63	0.55	3.58	0.52	*60/3*					
	9/16″	**AA50-M14**	0.35	1.02	0.71	0.63	3.74	0.59	*60/3*					
2/0	1/2″	**AA70-M12**	0.43	1.06	0.63	0.55	3.58	0.52	*45/3*					
	9/16″	**AA70-M14**	0.43	1.06	0.71	0.63	3.74	0.59	*45/3*					
3/0	1/2″	**AA95-M12**	0.49	1.06	0.63	0.55	3.58	0.52	*45/3*					
	9/16″	**AA95-M14**	0.49	1.06	0.71	0.63	3.74	0.59	*45/3*					
250 MCM	1/2″	**AA120-M12**	0.54	1.38	0.63	0.55	4.53	0.52	*30/3*	RHU131-C				
	9/16″	**AA120-M14**	0.54	1.38	0.71	0.63	4.68	0.59	*30/3*					
300 MCM	1/2″	**AA150-M12**	0.61	1.34	0.63	0.55	4.53	0.52	*30/3*					
	9/16″	**AA150-M14**	0.61	1.34	0.71	0.63	4.68	0.59	*30/3*					
350 MCM	1/2″	**AA185-M12**	0.67	1.65	0.79	0.55	4.80	0.52	*18/3*	HT131-UC				
	9/16″	**AA185-M14**	0.67	1.65	0.87	0.63	4.96	0.59	*18/3*					
500 MCM	1/2″	**AA240-M12**	0.77	1.73	0.79	0.55	4.80	0.52	*15/3*					
	9/16″	**AA240-M14**	0.77	1.73	0.87	0.63	4.96	0.59	*15/3*					
600 MCM	1/2″	**AA300-34M12**	0.89	1.85	0.87	0.55	5.12	0.52	*15/3*		HT120 HT131-C RHC131	ECW-H3D		
	9/16″	**AA300-34M14**	0.89	1.85	0.87	0.63	5.20	0.59	*15/3*					
	5/8″	**AA300-34M16**	0.89	1.85	0.87	0.67	5.20	0.67	*15/3*					
	5/8″	**AA300-M16**	0.92	2.13	0.87	0.75	7.00	0.67	*12/3*					RHU 230-630
800 MCM	5/8″	**AA400-M16**	1.02	2.20	0.75	0.67	6.77	0.67	*15/3*					
1000 MCM	5/8″	**AA500-40M16**	1.15	2.24	0.87	0.75	7.00	0.67	*12/3*					
1250 MCM	5/8″	**AA630-M16**	1.28	2.80	0.87	0.75	7.00	0.67	*9/3*					

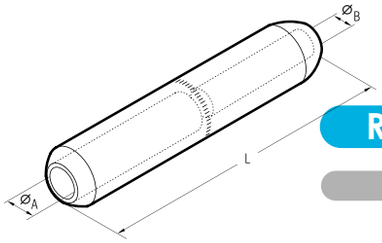
THROUGH CONNECTORS

for Aluminum conductors

MTMA-GC
MTMA/1



Conductor Size AWG	Type	Type	Dimensions in. Øi	Dimensions in. L	Quantity Box/Bag	Hydraulic Tools: B1300-UCA	RHU131-C	HT131-UC	HT120 HT131-C RHC131	ECW-H3D	RHU230-630
8	MTMA10-GC		0.17	3.56	60/3						
6	MTMA16-GC	MTMA16/1	0.22	3.56	60/3						
4	MTMA25-GC	MTMA25/1	0.26	3.56	60/3						
2	MTMA35-GC	MTMA35/1	0.31	3.56	60/3						
	MTMA35-20-GC		0.31	4.19	30/3						
1/0	MTMA50-GC	MTMA50/1	0.35	4.19	30/3						
2/0	MTMA70-GC	MTMA70/1	0.43	4.19	30/3						
3/0	MTMA95-GC		0.49	4.37	30/3						
		MTMA95/1	0.49	4.19	30/3						
250 MCM	MTMA120-GC	MTMA120/1	0.54	5.24	30/3						
300MCM	MTMA150-GC		0.61	5.31	30/3						
		MTMA150/1	0.61	5.26	30/3						
350 MCM	MTMA185-GC	MTMA185/1	0.67	5.65	15/3						
500 MCM	MTMA240-GC	MTMA240/1	0.77	5.65	15/3						
600 MCM	MTMAD300-GC		0.89	5.69	15/3						
		MTMAD300/1	0.89	5.31	15/3						
	MTMA300-GC		0.92	8.58	15/3						
800 MCM		MTMA400/1	1.02	8.58	15/3						
1000 MCM	MTMA500-GC		1.15	8.60	15/3						
		MTMA500-40/1	1.15	8.58	15/3						
1250 MCM		MTMA630/1	1.28	8.60	12/3						



REDUCER THROUGH CONNECTORS

for Aluminum or Copper conductors

MTMA-GC

Conductor Size AWG Side A Al	Side B Al/Cu	Type	Dimensions in. ØA	ØB	L	Quantity Box/Bag	Hydraulic Tools: B1300-UCA	RHU131-C	HT131-UC	HT120 HT131-C RHC131	ECW-H3D	RHU230-630
6	8	MTMA 16-10-GC	0.22	0.17	3.56	60/3						
4	8	MTMA 25-10-GC	0.25	0.17	3.56	60/3						
	6	MTMA 25-16-GC	0.25	0.22	3.56	60/3						
1/0	4	MTMA 50-25-GC	0.35	0.26	4.19	30/3						
	2	MTMA 50-35-GC	0.35	0.31	4.19	30/3						
2/0	2	MTMA 70-35-GC	0.43	0.31	4.19	30/3						
	1/0	MTMA 70-50-GC	0.43	0.35	4.19	30/3						
3/0	1/0	MTMA 95-50-GC	0.49	0.35	4.31	30/3						
	2/0	MTMA 95-70-GC	0.49	0.43	4.19	30/3						
250 MCM	2/0	MTMA 120-70-GC	0.54	0.43	5.24	30/3						
	3/0	MTMA 120-95-GC	0.54	0.49	5.24	30/3						
300 MCM	2/0	MTMA 150-70-GC	0.61	0.43	5.24	30/3						
	3/0	MTMA 150-95-GC	0.61	0.49	5.29	30/3						
	250 MCM	MTMA 150-120-GC	0.61	0.54	5.24	30/3						
350 MCM	250 MCM	MTMA 185-120-GC	0.67	0.54	5.65	15/3						
	300 MCM	MTMA 185-150-GC	0.67	0.61	5.65	15/3						
500 MCM	300 MCM	MTMA 240-150-GC	0.77	0.61	5.65	15/3						
	350 MCM	MTMA 240-185-GC	0.77	0.67	5.65	15/3						
600 MCM	3/0	MTMAD 300-95-GC	0.89	0.49	5.69	15/3						
	300 MCM	MTMAD 300-150-GC	0.89	0.61	5.69	15/3						
	350 MCM	MTMAD 300-185-GC	0.89	0.67	5.69	15/3						
	500 MCM	MTMAD 300-240-GC	0.89	0.77	5.69	15/3						
800 MCM	500 MCM	MTMA 400-240-GC	1.02	0.77	8.58	15/3						
	600 MCM	MTMA 400-300-GC	1.02	0.92	8.58	15/3						
1000 MCM	600 MCM	MTMA 500-300-GC	1.15	0.92	8.58	12/3						
	800 MCM	MTMA 500-400-GC	1.15	1.02	8.58	12/3						

MTMA-GC series through connectors are made from Aluminum of a purity equal to or greater than 99.5%.
They feature a solid stop which creates a barrier between the two sides of conductors to be joined.
Barrels are capped and filled with grease so as to avoid oxidation of the connector. MTMA/1 series through connectors are unblocked and are suitable for joining cables of the same type.
Details of the appropriate crimping tools and dies are shown on pages 298-299.

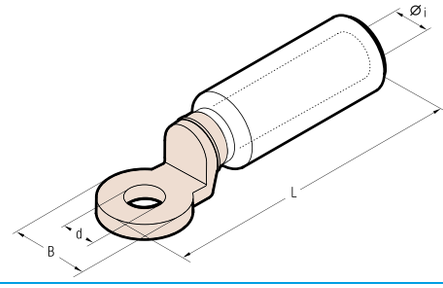
MTMA-GC series reducer through connectors are manufactured to the same specification as MTMA-GC series through connectors.
Details of the appropriate crimping tools and dies are shown on pages 298-299.

CEMBRE

CAA-M

BIMETALLIC CONNECTORS

Copper palm fixing - Aluminum barrels



Cu Al | GREASE | -58°F +302°F | DEEP INDENT

The barrels of series CAA-M connectors are made from Aluminum of a purity equal to or greater than 99.5%.
The barrel is friction welded to the palm thus achieving the best possible transition between the Copper palm and Aluminum barrel.
Barrels are capped and filled with grease so as to avoid oxidation of the Aluminum.
Details of the appropriate crimping tools and dies are shown on pages 297, 299.

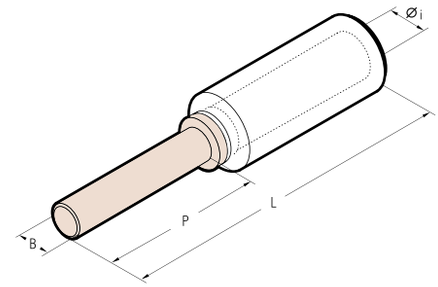
Conductor Size AWG	Ø Stud in.	Type	Dimensions in. Øi	B	L	d	Quantity Box/Bag	Hydraulic Tools: HT131-UC / RHU131-C / B1300-UCA	HT120 / HT131-C / RHC131	ECW-H3D	RHU230-630
8	1/2"	CAA10-M12	0.17	0.94	3.43	0.51	90/3	●			
6	1/2"	CAA16-M12	0.22	0.94	3.43	0.51	90/3	●			
4	1/2"	CAA25-M12	0.26	0.94	3.43	0.51	90/3	●			
2	1/2"	CAA35-M12	0.31	0.94	3.43	0.51	90/3	●			
	1/2"	CAA35-20-M12	0.31	0.94	3.43	0.51	60/3	●			
1/0	1/2"	CAA50-M12	0.35	0.94	3.43	0.51	30/3	●			
2/0	1/2"	CAA70-M12	0.43	0.94	3.43	0.51	60/3	●			
3/0	3/8"	CAA95-M10 NEW	0.49	0.94	3.43	0.41	30/3	●			
	1/2"	CAA95-M12	0.49	0.94	3.43	0.51	30/3	●			
250 MCM	1/2"	CAA120-M12	0.54	1.22	4.37	0.51	24/3	●			
300 MCM	1/2"	CAA150-M12	0.61	1.22	4.37	0.51	24/3	●			
350 MCM	1/2"	CAA185-M12	0.67	1.38	4.57	0.51	18/3	●			
500 MCM	1/2"	CAA240-M12	0.77	1.38	4.57	0.51	18/3	●			
600 MCM	1/2"	CAA300-34-M12	0.89	1.38	4.72	0.51	15/3	●	●	●	
	9/16"	CAA300-34-M14 NEW	0.89	1.38	4.72	0.60	15/3	●	●	●	
	5/8"	CAA300-34-M16	0.89	1.38	4.72	0.67	15/3	●	●	●	
	5/8"	CAA300-M16	0.92	1.38	6.00	0.65	12/3			●	●
800 MCM	1/2"	CAA400-M12 NEW	1.02	1.38	6.00	0.51	9/3			●	●
	5/8"	CAA400-M16	1.02	1.38	6.00	0.65	9/3			●	●
1000 MCM	5/8"	CAA500-M16TNBD	1.15	1.38	6.00	0.65	9/3			●	●
1250 MCM	5/16"	CAA630-4M8	1.28	2.36	7.87	4 x 0.35*	9/3			●	●

** 4 holes with 30 mm between axes*

MTA-C

BIMETALLIC CONNECTORS

Copper pin - Aluminum barrels



Cu Al | GREASE | -58°F +302°F | DEEP INDENT

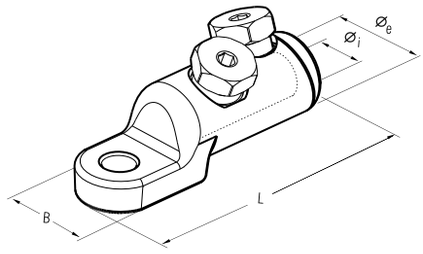
The barrels of series MTA-C connectors are made from Aluminum of a purity equal to or greater than 99.5%.
The barrel is friction welded to the pin thus achieving the best possible transition between the Copper pin and Aluminum barrel.
Barrels are capped and filled with grease so as to avoid oxidation of the Aluminum.
Details of the appropriate crimping tools and dies are shown on pages 297, 299.

Conductor Size AWG	Type	Dimensions in. Øi	B	P	L	Quantity Box/Bag	Hydraulic Tools: HT131-UC / RHU131-C / B1300-UCA
6	MTA16-C	0.22	0.31	1.18	3.23	90/3	●
4	MTA25-C	0.26	0.31	1.18	3.23	90/3	●
2	MTA35-C	0.31	0.31	1.18	3.23	90/3	●
1/0	MTA50-C	0.35	0.47	1.77	3.82	60/3	●
2/0	MTA70-C	0.43	0.47	1.77	3.82	60/3	●
3/0	MTA95-C	0.49	0.47	1.77	3.82	60/3	●
250 MCM	MTA120-C	0.54	0.55	2.17	4.92	30/3	●
300 MCM	MTA150-C	0.61	0.55	2.17	4.92	30/3	●
350 MCM	MTA185-C	0.67	0.55	2.17	4.92	24/3	●
500 MCM	MTA240-C	0.77	0.55	2.17	4.92	24/3	●

MECHANICAL LUGS

MLA-NC

For Low and Medium voltage Al/Cu conductors



Conductor Size AWG	Type	Ø Stud in.	Dimensions in.				N° of Bolts	Number of centring devices	Quantity Box/Bag
			Øe	Øi	B	L			
1/0 - 500 MCM	**MLA50-240-12C**	1/2"	1.30	0.81	1.30	4.19*	2	3	*1/10*

** without centring devices*

Cembre range-taking mechanical connectors are intended for use with Copper and Aluminum conductors, for low and medium voltage (up to 52kV) installations, in indoor, outdoor and underground applications.
Mechanical connector bodies (pic.1) are made from Aluminum EN-AW 2011 T6 with cross sectional area and barrel length designed to optimise electrical connectivity. Internal surfaces are protected against oxidation by grease with a very high dropping point, while the Tin plating on external surfaces has a minimum thickness of 12 µm for improved surface protection.
Shear bolts (pic.2) are made from the same material and designed to ensure a reliable electrical connection simply by tightening the bolts with a standard socket until shearing occurs inside the threaded hole without external protrusion.
To minimise voltage stresses, connectors are provided with centring devices (pic.3) to improve the alignment of the different conductor sizes.

Key features:

- Wide range of conductor cross sections
- Suitable for Copper and Aluminum conductors
- Tested according to IEC 61238
- Torque controlled to guarantee a good electrical contact
- Reduces inventory levels
- Easy installation - only requires a standard socket
- Reduced installation time

Pic.

Conductor Size AWG	Centring device	
	Color	Type
1/0 - 2/0 - 3/0	**Red**	
250 MCM 300 MCM	**Blue**	
350 MCM	**Yellow**	
500 MCM	Not required	

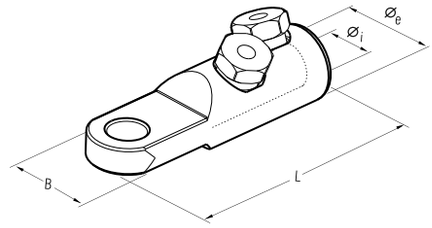
Pic. 3

CEMBRE

ML-C

MECHANICAL LUGS WITH SYMMETRICAL PALM

For Medium voltage Al/Cu conductors



Al | GREASE | 12µm TIN PLATED | -58°F +302°F

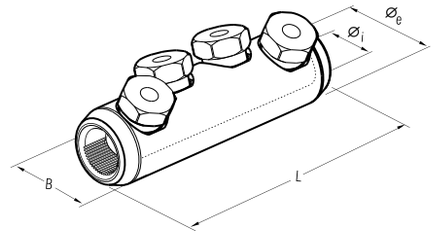
Conductor Size AWG	Type	Ø Stud in.	Dimensions in.				N° of Bolts	Number of centring devices	Quantity Box/Bag
			Øe	Øi	B	L			
3/0 - 500 MCM	**ML95-240-16C**	5/8"	1.38	0.81	1.38	4.9*	2	3	*1/10*
300 MCM 500 MCM	**ML150-240-16C**	5/8"	1.38	0.81	1.38	4.9*	2	2	*1/10*

** without centring devices*

MBS-NC

MECHANICAL SPLICES

For Low and Medium voltage Al/Cu conductors



Al | GREASE | 12µm TIN PLATED | -58°F +302°F

Conductor Size AWG	Type	Dimensions in.				N° of Bolts	Number of centring devices	Quantity Box/Bag
		Øe	Øi	B	L			
1/0 - 500 MCM	**MBS50-240NC**	1.38	0.81	1.38	4.9*	4	3	*1/20*

** without centring devices*

TERMINAL BLOCKS, FLEXIBLE BUSBAR, BRAIDS AND DISTRIBUTION BLOCKS

symbol description

terminal blocks

Polycarbonate body

Polyamide PA6.6 body

Polypropylene body

Steatite body

Polyvinylchloride insulating sheath

Electrolytically Tin plated Copper interconnections

Electrolytically Tin plated to avoid oxidation

Nominal voltage V

Degree of Protection IP20

Self-extinguishing class V0 UL94

Zinc plated Steel screws

Chrome plated Steel screws

Brass clamp

Operating temperature range

Italian Institute of the Quality Mark
type approval

Lloyd's Register Marine
type approval

Italian Naval Register
type approval

USR-CNR type approval
valid for USA and CANADA

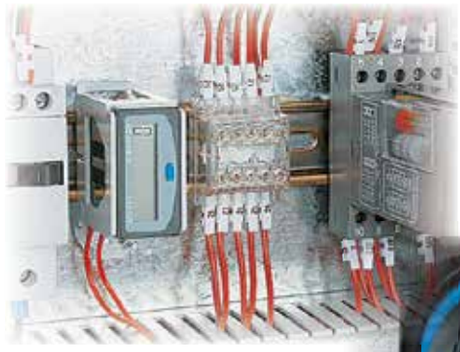
CE marking

UKCA marking

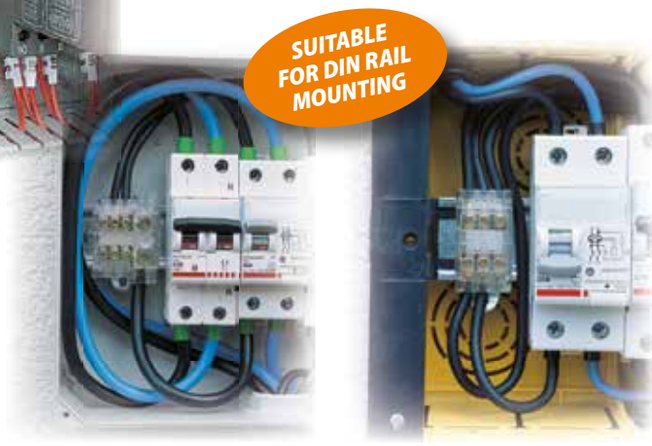
example applications

terminal blocks

type
ZETApiù®



Z6-10D terminal blocks
used in a control panel.



Z35T-11 uninterrupted,
main earth loop, terminal block.
Used for equipotential bonding

Z16-8D and Z6-6D
mounted on DIN rails.
Used in control panels

type
ZETAmini®

ZETAmini terminal blocks
used for domestic/commercial
applications.

type
ZETA*block*®

A typical application of the
Z50-DP12-160 and Z35-DP14B-125
installed in a distribution panel

CEMBRE

Z6

SINGLE POLE TERMINAL BLOCKS

indirect clamping - nominal section 10 AWG

type ZETApiù®

Z6-3 Z6-5 Z6-6 Z6-10

The "Z...D" version has been designed for mounting on DIN rails

PC | Cu-ETP ELECTROLYTIC | 3µm TIN PLATED | 450V | IP20 | V0 UL94 | MAX +185°F

Connecting Capacity AWG	Type	No. of Ways	Nominal Voltage V	Maximum Operating Temperature °F	Insulation Specification	Self Extinguishing Specification	Dimensions L x W x H in.	Weight lbs.	Quantity
(3 way) 17÷10	Z6-3	3	450	185.0	IP20	V-0 (UL 94)	0.91x0.91xh1.08	0.03	30
	Z6-3D						0.91x1.57xh1.44	0.04	10
(5 way) 17÷10	Z6-5	5	450	185.0	IP20	V-0 (UL 94)	1.38x0.91xh1.08	0.05	20
	Z6-5D						1.38x1.57xh1.44	0.06	10
(6 way) 17÷10	Z6-6	6	450	185.0	IP20	V-0 (UL 94)	0.91x1.69xh1.12	0.06	15
	Z6-6D						0.91x2.09xh1.30	0.07	10
(10 way) 17÷10	Z6-10	10	450	185.0	IP20	V-0 (UL 94)	1.38x1.69xh1.12	0.09	10
	Z6-10D						1.38x2.09xh1.30	0.10	15

D= Version with clamp for DIN rail

3, 5, 6 and 10 way, single pole terminal blocks for conductor section 17 to 10 AWG.
Self contained and robust, they are quick and easy to install for both industrial and domestic use.
The indirect clamping of the "ZETApiù" terminal blocks guarantees a low and stable contact resistance.
Indirect clamping eliminates damage to the conductor strands.
The easy-entry receptacles also grant a fast and reliable insertion of the cable.

Technical features:
- **Self-extinguishing Polycarbonate body**
- **Tempered Steel clamps**
- **Electrolytically Tin plated Copper interconnections**

Z16

SINGLE POLE TERMINAL BLOCKS

indirect clamping - nominal section 6 AWG

type ZETApiù®

Z16-3 Z16-4 Z16-5N Z16-8 Z16-12

PC | Cu-ETP ELECTROLYTIC | 3µm TIN PLATED | 450V | IP20 | V0 UL94 | MAX +185°F

Connecting Capacity AWG	Type	No. of Ways	Nominal Voltage V	Maximum Operating Temperature °F	Insulation Specification	Self Extinguishing Specification	Dimensions L x W x H in.	Weight lbs.	Quantity
6	Z16-3	3	450	185.0	IP20	V-0 (UL 94)	1.50x1.23xh1.50	0.11	20
	Z16-3D						1.50x1.97xh1.73	0.12	15
6	Z16-4	4	450	185.0	IP20	V-0 (UL 94)	1.06x2.13xh1.46	0.11	15
	Z16-4D						1.06x2.28xh1.69	0.12	10
6	Z16-5N	5	450	185.0	IP20	V-0 (UL 94)	2.40x1.24xh1.50	0.14	10
	Z16-5ND						2.40x1.97xh1.73	0.15	4
(2 way) 6 + (6 way) 10	Z16-8	8 (2÷6)	450	185.0	IP20	V-0 (UL 94)	1.40x1.97xh1.44	0.11	15
	Z16-8D						1.40x2.24xh1.65	0.12	10
(2 way) 6 + (10 way) 10	Z16-12	12 (2÷10)	450	185.0	IP20	V-0 (UL 94)	4.11x1.28xh1.44	0.25	8
	Z16-12D						4.11x1.97xh1.65	0.28	5

D= Version with clamp for DIN rail

3, 4, 5, 8 and 12 way, single pole terminal blocks.
Ideal for use as an equipotential bonding connector for both industrial and domestic use.

SINGLE POLE TERMINAL BLOCKS

indirect clamping - nominal section 2 AWG

Z35

type ZETApiù®

Z35-3

Z35-4

Z35-6

Connecting Capacity AWG	Type	No. of Ways	Nominal Voltage V	Maximum Operating Temperature °F	Insulation Specification	Self Extinguishing Specification	Dimensions L x W x H in.	Weight lbs.	Quantity
2	**Z35-3**	3	450	185.0	IP20	V-0 (UL 94)	2.09x1.91xh1.65	0.24	*10*
	Z35-3D						2.09x1.97xh1.89	0.25	*5*
2	**Z35-4**	4	450	185.0	IP20	V-0 (UL 94)	1.46x3.35xh1.65	0.28	*5*
	Z35-4D						1.46x3.35xh1.89	0.29	*5*
(2 way) 2 + (4 way) 6	**Z35-6**	6 (2÷4)	450	185.0	IP20	V-0 (UL 94)	3.27x1.61xh1.69	0.29	*8*
	Z35-6D						3.27x1.93xh2.05	0.31	*5*

D= Version with clamp for DIN rail

PC · Cu-ETP ELECTROLYTIC · 3µm TIN PLATED · 450V · IP20 · V0 UL94 · MAX +185°F

3, 4 and 6 way, single pole terminal blocks. Ideal for use as an equipotential bonding connector for both industrial and domestic use.

SINGLE POLE TERMINAL BLOCKS

indirect clamping - for earthing applications

Z35
Z50

type ZETApiù®

Z50-10D

Z35T-11
Z35T-11D

Z35-26D

Connecting Capacity AWG	Type	No. of Ways	Maximum Operating Temperature °F	Self Extinguishing Specification	Dimensions L x W x H in.	Weight lbs.	Quantity
(1 way) 2 + (10 way) 10	**Z35T-11**	11 (1+10)	185.0	V-0 (UL 94)	2.28x1.69xh1.65	0.15	*10*
	Z35T-11D				2.28x2.09xh1.85	0.17	*10*
(2 way) 2 + (24 way) 8	**Z35-26D**	26 (2+24)	185.0	V-0 (UL 94)	5.94x2.05xh1.89	0.84	*4*
(2 way) 1/0 + (8 way) 4	**Z50-10D**	10 (2+8)	185.0	V-0 (UL 94)	3.05x2.17xh1.93	0.71	*6*

D= Version with clamp for DIN rail

PC · Cu-ETP ELECTROLYTIC · 3µm TIN PLATED · V0 UL94 · MAX +185°F

10, 11 and 26 way, single pole terminal blocks.
Ideal for use as an equipotential bonding connector for both industrial and domestic use.

CEMBRE

CONNECTING CAPACITY OF TERMINAL BLOCKS

indirect clamping

type
ZETApiù®

Type	Nominal Section AWG	No. of Ways x Nominal Section AWG	Connecting Capacity of Each Way* No. of Conductors x Section AWG	Markings
Z6-3 Z6-3D	10	3 x 10	1 x 10 R/F 1 x 12 R/F 1÷2 x 14 R/F 1÷2 x 16 R/F 1÷4 x 17 R/F	6 mm² 450 V T 85°C
Z6-5 Z6-5D	10	5 x 10		
Z6-6 Z6-6D	10	6 x 10		6 mm² 450 V T 85°C
Z6-10 Z6-10D	10	10 x 10		
Z16-3 Z16-3D	6	3 x 6	1 x 6 R/F 1 x 8 R/F 1÷2 x 10 R/F 1÷3 x 12 R/F 1÷4 x 14 R/F 1÷8 x 16 R/F	16 mm² 450 V T 85°C
Z16-4 Z16-4D	6	4 x 6	1 x 6 F 1 x 8 F 1÷2 x 10 F 1÷3 x 12 F 1÷4 x 14 F 1÷8 x 16 F	16 mm² 450 V T 85°C
Z16-5N Z16-5ND	6	5 x 6	1 x 6 R/F 1 x 8 R/F 1÷2 x 10 R/F 1÷3 x 12 R/F 1÷4 x 14 R/F 1÷8 x 16 R/F	16 mm² 450 V T 85°C
Z16-8 Z16-8D	6 - 10	2 x 6	1 x 6 R/F 1 x 8 R/F 1÷2 x 10 R/F 1÷3 x 12 R/F 1÷4 x 14 R/F 1÷8 x 16 R/F	16~6 mm² 450 V T 85°C
		6 x 10	1 x 10 R/F 1 x 12 R/F 1÷2 x 14 R/F 1÷2 x 16 R/F 1÷4 x 17 R/F	
Z16-12	6 - 10	2 x 6	1 x 6 F 1 x 8 F 1÷2 x 10 F 1÷3 x 12 F 1÷4 x 14 F	16~6 mm² 450 V T 85°C
Z16-12D		10 x 10	1 x 10 F 1 x 12 F 1÷2 x 14 F 1÷2 x 16 F 1÷4 x 17 F	

** A mixture of conductor sizes may be connected to the terminal block provided that the sum of their sections is less than the nominal section.*
R = Rigid conductor F = Flexible conductor

CONNECTING CAPACITY OF TERMINAL BLOCKS

indirect clamping

type
ZETApiù®

Type	Nominal Section AWG	No. of Ways x Nominal Section AWG	Connecting Capacity of Each Way* No. of Conductors x Section AWG	Markings
Z35-3 Z35-3D	2	3 x 2	1 x 2 R/F 1 x 4 R/F 1÷2 x 6 R/F 1÷3 x 8 R/F 1÷5 x 10 R/F	35 mm² 450 V T 85°C
Z35-4 Z35-4D	2	4 x 2	1 x 2 F 1 x 4 F 1÷2 x 6 F 1÷3 x 8 F 1÷6 x 10 F	35 mm² 450 V T 85°C
Z35-6 Z35-6D	2 - 6	2 x 2	1 x 2 R/F 1 x 4 R/F 1÷2 x 6 R/F 1÷3 x 8 R/F 1÷6 x 10 F	35~16 mm² 450 V T 85°C
		4 x 6	1 x 6 R/F 1 x 8 R/F 1÷2 x 10 R/F 1÷3 x 12 R/F 1÷5 x 14 F	
Z35T-11 Z35T-11D	2 - 10	1 x 2	1 x 2 R/F 1 x 4 R/F 1 x 6 R/F 1 x 8 R/F	35~6 mm² T 85°C
		10 x 10	1 x 10 R/F 1 x 12 R/F 1÷2 x 14 R/F 1÷2 x 16 R/F 1÷4 x 17 R/F	
Z35-26D	2 - 8	2 x 2	1 x 2 R/F 1 x 4 R/F 1÷2 x 6 R/F 1÷3 x 8 R/F 1÷6 x 10 R/F	35~10 mm² T 85°C
		24 x 8	1 x 8 R/F 1 x 10 R/F 1÷2 x 12 R/F 1÷4 x 14 R/F	
Z50-10D	1/0 - 4	2 x 1/0	1 x 1/0 R/F 1 x 2 R/F 1÷2 x 4 R/F 1÷4 x 6 R/F	** 50~25 mm² T 85°C
		8 x 4	1 x 4 R/F 1÷2 x 6 R/F 1÷3 x 8 R/F 1÷6 x 10 R/F 1÷9 x 12 R/F	

** A mixture of conductor sizes may be connected to the terminal block provided that the sum of their sections is less than the nominal section.*
R = Rigid conductor F = Flexible conductor

MARKINGS

Conforms to:

Directives 2014/35/UE

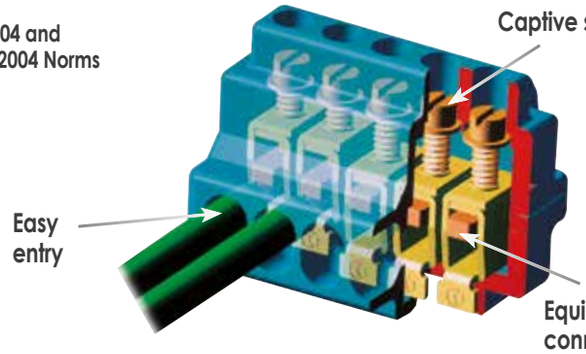
EN 60998-1: 2004 and EN 60998-2-1: 2004 Norms

Italian Institute of the Quality Mark type approval

Lloyd's Register Marine type approval

Italian Naval Register type approval

******
EN60947-1: 2007+A1: 2011: 2014 and EN 60947-7-1: 2002 Norms



CEMBRE

Z-DP

POWER DISTRIBUTION BLOCK

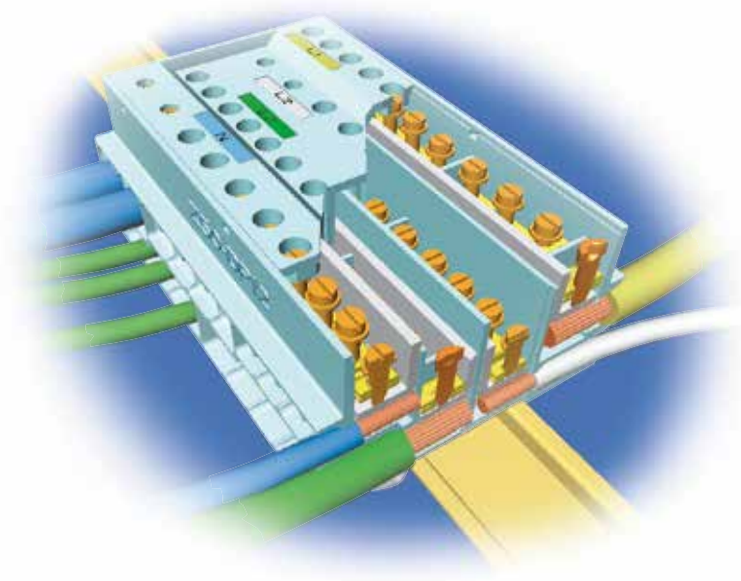
indirect clamping

type ZETA*block*®

PC | Cu-ETP ELECTROLYTIC | 3µm TIN PLATED | Steel ZINC PLATED | V0 UL94 | 800V

Type	No. of poles	No. of Ways per pole	Nominal CSA for each pole AWG	Maximum operating voltage (Ui)	Impulse voltage (Uimp)	Maximum operating current (In)	Allowable short duration fault current (Icw)	Maximum allowed peak fault current (Ipk)	Self Extinguishing Specification	Dimensions L x W x H in.	Weight lbs.	Qty
Z25-DP7-100	4	7 (2+5)	(2 way) 4 + (5 way) 10	800 V	8 kV	100 A	3 kA	18 kA	V-0 (UL 94)	2.75x3.31xh1.77	0.13	*2*
Z35-DP14-125	4	14 (2+2+10)	(2 way) 2 + (2 way) 6 + (10 way) 10	800 V	8 kV	125 A	4,2 kA	18 kA	V-0 (UL 94)	5.39x3.27xh1.81	1.54	*1*
Z35-DP14B-125	2	14 (2+2+10)	(2 way) 2 + (2 way) 6 + (10 way) 10	800 V	8 kV	125 A	4,2 kA	18 kA	V-0 (UL 94)	5.39x1.73xh1.81	0.79	*2*
Z50-DP12-160	4	12 (2+4+6)	(2 way) 1/0 + (4 way) 4 + (6 way) 6	800 V	8 kV	160 A	6 kA	18 kA	V-0 (UL 94)	5.91x3.31xh1.89	1.72	*1*

100, 125 and 160A, 2–4 pole distribution blocks with 7, 14 and 12 ways per pole respectively.
Accepting a wide cable CSA range (17 - 1/0 AWG) and of compact size, Zetablocks are ideal for control cabinets and distribution panels.
The lateral arrangement of terminals on upper and lower faces (Z35-DP14B one face only), simplifies connection and promotes tidy, homogeneous cable routing to assist subsequent wiring operations.
Easy entry apertures provide quick, effective cable insertion while the indirect clamping feature eliminates damage to cable strands and assures a low, stable contact resistance.



Technical features:
- **Self extinguishing antishock Polycarbonate body**
- **Tempered Steel captive clamping screws and plates**
- **Electrolytically Tin plated Copper interconnectors**

POWER DISTRIBUTION BLOCK

indirect clamping

type
ZETA*block*®

CONNECTING CAPACITY OF POWER DISTRIBUTION BLOCK

indirect clamping

Type	Nominal Section AWG	No. of Ways x Nominal Section AWG	Connecting Capacity of Each Way No. of Conductors x Section AWG	Markings
Z25-DP7-100	4 - 10	2 x 4	1 x 4 F 1 x 6 F 1÷2 x 8 F	CE UKCA 25÷6 sqmm
		5 x 10	1 x 10 F 1 x 12 F 1÷2 x 14 F 1÷2 x 16 F 1÷4 x 17 F	
Z35-DP14-125 Z35-DP14B-125	2 - 6 - 10	2 x 2	1 x 2 F 1 x 4 F 1÷2 x 6 F 1÷3 x 8 F	CE UKCA 35÷16÷6 sqmm
		2 x 6	1 x 6 F 1 x 8 F 1÷2 x 10 F 1÷3 x 12 F 1÷4 x 14 F	
		10 x 10	1 x 10 F 1 x 12 F 1÷2 x 14 F 1÷2 x 16 F 1÷4 x 17 F	
Z50-DP12-160	1/0 - 4 - 6	2 x 1/0	1 x 1/0 F 1 x 2 F 1÷2 x 4 F	CE UKCA 50÷25÷16 sqmm
		4 x 4	1 x 4 F 1 x 6 F 1÷2 x 8 F	
		6 x 6	1 x 6 F 1 x 8 F 1÷2 x 10 F	

F = Flexible conductor

MARKINGS

CE

Italian Institute of the Quality Mark type approval

UKCA

Conforms to:

Directives 2014/35/UE

EN 60947-7-1: 2009 Norms

Z-1

ONE WAY TERMINAL BLOCKS

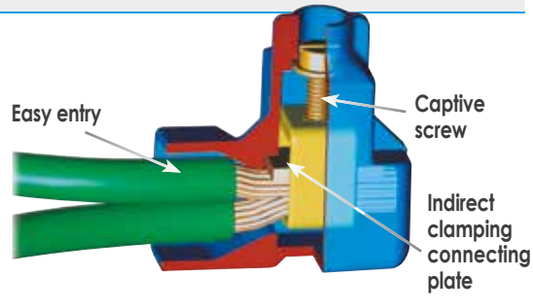
indirect clamping

type **ZETAmini®**

One way, single pole terminal blocks for conductors sections from AWG 22 to 2.
Self contained and robust, they are ideal for the fast and safe installation for industrial and domestic applications.
The indirect clamping of the "ZETAmini" terminal blocks guarantees a low and stable contact resistance.
The easy-entry receptacle also grants a fast and reliable insertion of the cable.

Connecting Capacity AWG	Type	Nominal Voltage V	Maximum Operating Temperature °F	Insulation Specification	Self Extinguishing Specification	Dimensions L x W x H in.	Weight lbs.	Quantity
22	**Z2.5-1**	450	185.0	IP20	V-0 (UL 94)	0.02x0.04xh0.05	0.006	*500/25*
10	**Z6-1**	450	185.0	IP20	V-0 (UL 94)	0.03x0.06xh0.06	0.01	*250/25*
8	**Z10-1**	450	185.0	IP20	V-0 (UL 94)	0.03x0.07xh0.07	0.02	*80/10*
6	**Z16-1**	450	185.0	IP20	V-0 (UL 94)	0.04x0.07xh0.08	0.03	*60/10*
4	**Z25-1**	450	185.0	IP20	V-0 (UL 94)	0.05x0.09xh0.10	0.06	*50/10*
2	**Z35-1**	450	185.0	IP20	V-0 (UL 94)	0.06x0.10xh0.11	0.08	*40/10*

Technical features:
- **Self-extinguishing Polycarbonate body**
- **Electrolytically Zinc plated, tempered Steel clamp and screw**
- **Electrolytically Tin plated Steel connection plate**



Type	Nominal Section AWG	Connecting Capacity of Each Way* No. of Conductors x Section AWG		Markings
Z2.5-1	22	2 x 22 R/F 2÷3 x 16 R/F 2÷5 x 17 R/F	2÷6 x 18 R/F 2÷10 x 20 R/F 2÷18 x Ø 21÷19 AWG communication type wire	2,5 sqmm 450 V T 85°C IP 20
Z6-1	10	2 x 10 R/F 2÷3 x 12 R/F 2÷4 x 22 R/F 2÷6 x 16 R/F 2÷6 x 17 R/F	2÷10 x 18 R/F 2÷12 x 20 R/F (1 x 10 F) + (4 x 16 F) (1 x 10 F) + (2 x 22 F)	6 sqmm 450 V T 85°C IP 20
Z10-1	8	2 x 8 R/F 2÷3 x 10 R/F 2÷5 x 12 R/F 2÷8 x 22 R/F	2÷12 x 16 R/F 2÷20 x 17 R/F 2÷25 x 18 R/F (1 x 10 F) + (1 x 12 F) + (2 x 22 F) + (3 x 16 F)	10 sqmm 450 V T 85°C IP 20
Z16-1	6	2 x 6 R/F 2÷3 x 8 R/F 2÷5 x 10 R/F	2÷8 x 12 R/F 2÷12 x 22 R/F 2÷18 x 16 R/F	16 sqmm 450 V T 85°C IP 20
Z25-1	4	2 x 4 R/F 2÷3 x 6 R/F 2÷4 x 8 R/F	2÷8 x 10 R/F 2÷11 x 12 R/F 4÷16 x 22 R/F	25 sqmm 450 V T 85°C IP 20
Z35-1	2	2 x 2 R/F 2÷3 x 4 R/F 2÷4 x 6 R/F 2÷7 x 8 R/F	2÷11 x 10 R/F 4÷17 x 12 R/F 5÷28 x 22 R/F	35 sqmm 450 V T 85°C IP 20

**A mixture of conductor sizes may be connected to the terminal block provided that the sum of their sections is less than twice the nominal section.*
R = Rigid conductor F = Flexible conductor

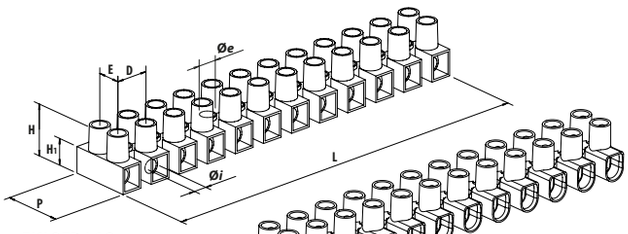
Conforms to:

Directives 2014/35/UE

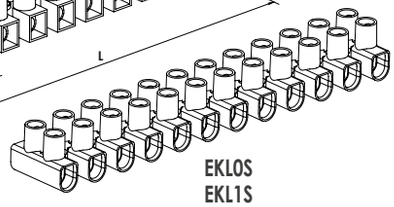
EN 60998-1: 2004 and
EN 60998-2-1: 2004 Norms

TERMINAL BLOCK TYPE EKL

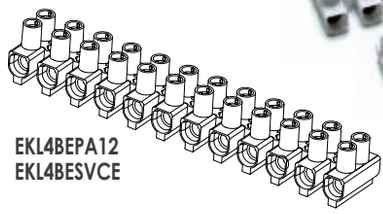
EKL



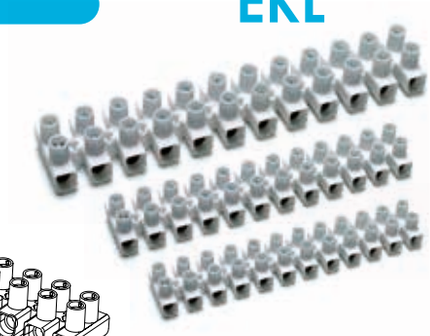
EKL0EPA12
EKL1BEPA12
EKL2EPA 12
EKL3EM4PA12



EKL0S
EKL1S
EKL2S
EKL3S



EKL4BEPA12
EKL4BESVCE



NEW PA6.6 Steel CHROME CE

Type 12 Poles of Polyamide (PA6.6)

	Type	Nominal section AWG	Dimensions in.								Screw	Quantity
			Øi	Øe	L 12 poles	H	H1	P	E	D		
△	EKL0EPA12	22	0.110	0.110	3.685	0.528	0.299	0.638	0.252	0.315	M2,6	50
△	EKL1BEPA12	12	0.138	0.142	4.606	0.591	0.315	0.732	0.287	0.394	M3	30
△	EKL2EPA12	8	0.165	0.146	5.224	0.681	0.346	0.874	0.394	0.453	M3,5	15
□	EKL3EM4PA12	6	0.228	0.205	6.890	0.819	0.449	0.992	0.433	0.591	M4	25
○	EKL4BEPA12	4	0.276	0.157	7.374	1.102	0.610	1.181	0.433	0.630	M5	25

NEW PP Steel CHROME CE HF HALOGEN FREE

Type 12 Poles of Polypropylene (PP)

	Type	Nominal section AWG	Dimensions in.								Screw	Quantity
			Øi	Øe	L 12 poles	H	H1	P	E	D		
●	EKL0S	12	0.126	0.104	3.736	0.512	-	0.654	0.252	0.319	M2,6	50
●	EKL1S	10	0.138	0.134	4.587	0.587	-	0.744	0.287	0.394	M3	30
●	EKL2S	8	0.169	0.146	5.268	0.681	-	0.921	0.394	0.453	M3,5	15
●	EKL3S	6	0.217	0.193	6.870	0.984	-	0.815	0.433	0.591	M4	25
◇	EKL4BESVCE	4	0.276	0.157	7.374	1.102	-	1.181	0.433	0.630	M5	25

△ Nominal voltage : 450 V
Ambient temperature : max 185°F

□ Nominal voltage : 450 V
Ambient temperature: max 230°F

○ Nominal voltage: 750 V
Ambient temperature: max 230°F

● Nominal voltage: 450 V
Ambient temperature: max 176°F

◇ Nominal voltage: 750 V
Ambient temperature: max 176°F

DS

2B

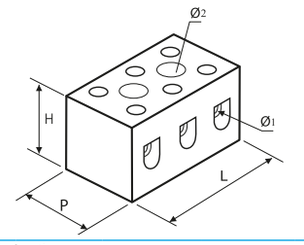
Material:
- **Block made of chromium plated Brass**
- **Screw made of chromium plated Steel**

Variants upon request for version en Polyamide PA6.6
N° of poles from 1 to 11:
- eplace reference 12 with n° of required poles
- Versions with protection plate: add reference "DS"
- Versions with shaped entry: add reference "2B"
- Versions suitable for high temperature, of Polyamide 6.6 reinforced with glass fibre , brown: add reference "FG"

EKL 0E PA XX XX FG
N° poles 2B / DS reinforced version

TERMINAL BLOCK TYPE ZS

ZS



NEW STEATITE Steel ZINC PLATED BRASS 450V MAX +662°F CE

Type	Nominal section AWG		No. of poles	Dimensions in.					Quantity
	Low Str.	Flex		Ø1	Ø2	L	H	P	
ZS-U6	12/10	12	1	0.110	-	0.354	0.709	0.748	200
ZS-B6	12/10	12	2	0.110	0.157	0.866	0.709	0.748	80
ZS-T6	12/10	12	3	0.110	0.157	1.417	0.709	0.748	60
ZS-U10	8	10	1	0.169	-	0.512	0.787	0.827	200
ZS-B10	8	10	2	0.169	0.189	0.945	0.787	0.827	80
ZS-T10	8	10	3	0.169	0.189	1.417	0.787	0.827	70
ZS-U16	6	8	1	0.240	-	0.591	0.866	1.063	100
ZS-B16	6	8	2	0.240	0.197	1.220	0.866	1.063	50
ZS-T16	6	8	3	0.240	0.197	1.890	0.866	1.063	30

Material:
- **insulating body in STEATITE**
- **screw in GALVANIZED STEEL**
- **BRASS clamp**

Nominal voltage: 450 V
Operating temperature: 662°C

CEMBRE

DB/1N

UNIPOLAR DISTRIBUTION BLOCKS

direct clamping

DBLOCK UNIPOLAR SERIES

- **Tested in accordance with UL 1059 - File no. E523349**
- 80, 125, 160, 250, 400, 500 A distribution blocks
- Versions available with 6, 7 or 11 outputs (see table)
- Wire entry facilitated by chamfered entry holes and clamping screws
- Terminals maintain excellent stability of the connection over time
- Connection can be expanded through dedicated unipolar jumpers (can be used for types DB125-7/1N and DB160-7/1N)

NEW | PC | PA 6.6 | BRASS | 3µm TIN PLATED | Steel ZINC PLATED | V0 UL94 | IP20 | 1000V | c UL us File no. E523349 | CE | UKCA

Type	N° inputs	Connecting Capacity in AWG	N° outputs	Connecting Capacity out AWG	IEC® 60947-7-1		UL® 1059		Allowable short duration fault current (Icw)	Maximum allowed peak fault current (Ipk)	Self Extinguishing Specification	Dimensions in.	Weight lbs	Q.ty
					Nominal voltage	Nominal Current	Nominal voltage	Nominal Current						
DB80-6/1N	1	16 - 4	6 (4+2)	(4) 16 - 8 (2) 16 - 4	1000 V	80 A	600 V	85 A	3 kA	22 kA	V-0 (UL 94)	2.6x1.0xh1.8	0.15	5
DB125-7/1N	1	8 - 1/0	7 (6+1)	(6) 14 - 4 (1) 14 - 2	1000 V	125 A	600 V	150 A	4.2 kA	30 kA	V-0 (UL 94)	3.0x1.1xh1.8	0.31	5
DB160-7/1N	1	8 - 3/0	7 (6+1)	(6) 14 - 4 (1) 14 - 2	1000 V	160 A	600 V	200 A	11.8 kA	30 kA	V-0 (UL 94)	3.0x1.1x h1.8	0.30	5
DB250-11/1N	1	6 - 250 MCM	11 (2+5+4)	(2) 10 - 1 (5) 14 - 4 (4) 14 - 6	1000 V	250 A	600 V	255 A	24.5 kA	51 kA	V-0 (UL 94)	3.8x1.8xh2.0	0.93	3
DB400-11/1N	1	3/0 - 400 MCM	11 (2+5+4)	(2) 10 - 1 (5) 14 - 4 (4) 14 - 6	1000 V	400 A	600 V	335 A	24.5 kA	51 kA	V-0 (UL 94)	3.8x1.8xh2.0	0.88	3
DB500-11/1N	1	max 8x24 mm Flex. Busbar	11 (2+5+4)	(2) 10 - 1 (5) 14 - 4 (4) 14 - 6	1000 V	500 A	600 V	335 A	24.5 kA	51 kA	V-0 (UL 94)	3.8x1.8xh2.0	0.85	3

DB/2

BIPOLAR DISTRIBUTION BLOCKS

direct clamping

DBLOCK BIPOLAR SERIES

- 40, 100, 125 A bipolar distribution blocks
- Versions available with 6, 13, 14 or 15 outputs (see table)
- Wire entry facilitated by chamfered entry holes
- Terminals maintain excellent stability of the connection over time

NEW | PC | PA 6.6 | BRASS | Steel ZINC PLATED | V0 UL94 | 500V | 690V | CE | UKCA

Type	N° inputs	Connecting Capacity in AWG	N° outputs	Connecting Capacity out AWG	Nominal voltage	Nominal Current	Allowable short duration fault current (Icw)	Maximum allowed peak fault current (Ipk)	Self Extinguishing Specification	Dimensions in.	Weight lbs	Q.ty
DB40-15/2	2	10÷6 12÷8	15	16÷12 / 18÷12	500 V	40 A	4.5 kA	22 kA	V-0 (UL 94)	1.97x5.12xh1.97	0.48	1
DB100-6/2	1	8÷4	6 (3+3)	(3) 16÷12 / 18÷12 (3) 14÷10 / 16÷10	500 V	100 A	4.5 kA	20 kA	V-0 (UL 94)	1.97x2.52xh1.97	0.24	1
DB100-13/2	2	8÷4	13 (6+7)	(6) 16÷12 / 18÷12 (7) 14÷10 / 16÷10	500 V	100 A	4.5 kA	20 kA	V-0 (UL 94)	1.97x5.12xh1.97	0.46	1
DB125-6/2	1	8÷2	6 (5+1)	(5) 14÷10 / 16÷10 (1) 8÷4 / 10÷6	690 V	125 A	4.5 kA	18 kA	V-0 (UL 94)	1.97x3.7xh1.97	0.35	1
DB125-14/2	1	8÷2	14 (11+3)	(11) 14÷10 / 16÷10 (3) 8÷4 / 10÷6	690 V	125 A	4.5 kA	18 kA	V-0 (UL 94)	1.97x6.4xh1.97	0.59	1
DB125-14/2C	2	8÷2 8÷6	13 (11+2)	(11) 14÷10 / 16÷10 (2) 8÷4 / 10÷6	500 V	125 A	4.5 kA	20 kA	V-0 (UL 94)	1.97x5.12xh1.97	0.45	1

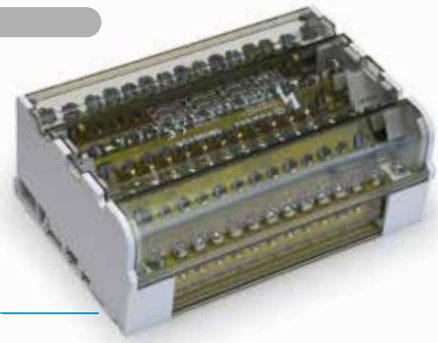
TETRAPOLAR DISTRIBUTION BLOCKS

DB/4

direct clamping

DBLOCK TETRAPOLAR

- 40, 100, 125, 160 A distribution blocks
- Versions available with 6, 13, 14 or 15 outputs (see table)
- Wire entry facilitated by chamfered entry holes
- Terminals maintain excellent stability of the connection over time



Type	N° inputs	Connecting Capacity in AWG	N° outputs	Connecting Capacity out AWG	Nominal voltage	Nominal Current	Allowable short duration fault current (Icw)	Maximum allowed peak fault current (Ipk)	Self Extinguishing Specification	Dimensions in.	Weight lbs	Quantity
DB40-11/4	2	10÷6 12÷8	11	16÷12 / 18÷12	500 V	40 A	4.5 kA	22 kA	V-0 (UL 94)	3.5x3.9xh2.0	0.77	*1*
DB100-6/4	1	8÷4	6 (3+3)	(3) 16÷12 / 18÷12 (3) 14÷10 / 16÷10	500 V	100 A	4.5 kA	20 kA	V-0 (UL 94)	3.5x2.5xh2.0	0.50	*1*
DB100-13/4	2	8÷4	13 (6+7)	(6) 16÷12 / 18÷12 (7) 14÷10 / 16÷10	500 V	100 A	4.5 kA	20 kA	V-0 (UL 94)	3.5x5.1xh2.0	0.98	*1*
DB125-6/4	1	8÷2	6 (5+1)	(5) 14÷10 / 16÷10 (1) 8÷4 / 10÷6	690 V	125 A	4.5 kA	20 kA	V-0 (UL 94)	3.5x4.3xh2.0	0.72	*1*
DB125-10/4	1	8÷2	10 (7+3)	(7) 14÷10 / 16÷10 (3) 8÷4 / 10÷6	690 V	125 A	4.5 kA	20 kA	V-0 (UL 94)	3.5x4.8xh2.0	0.97	*1*
DB125-10/4C	2	8÷2 8÷6	9 (7+2)	(7) 14÷10 / 16÷10 (2) 8÷4 / 10÷6	500 V	125 A	4.5 kA	20 kA	V-0 (UL 94)	3.5x3.9xh2.0	0.67	*1*
DB125-14/4	1	8÷2	14 (11+1+2)	(11) 14÷10 / 16÷10 (1) 8÷4 / 10÷6 (2) 8÷2 / 8÷4	690 V	125 A	4.2 kA	14.5 kA	V-0 (UL 94)	3.5x7.2xh2.0	1.29	*1*
DB125-14/4C	2	8÷2 8÷6	13 (11+2)	(11) 14÷10 / 16÷10 (2) 8÷4 / 10÷6	500 V	125 A	4.5 kA	20 kA	V-0 (UL 94)	3.5x5.1xh2.0	0.88	*1*
DB160-11/4	1	8÷1/0	11 (3+7+1)	(3) 8÷2 / 8÷4 (7) 14÷6 / 16÷6 (1) 14÷10 / 16÷10	690 V	160 A	8.2 kA	35 kA	V-0 (UL 94)	3.8x6.9xh2.0	1.63	*1*

ACCESSORIES

DNB

neutral bars

Type	N° inputs	Connecting Capacity in AWG	N° outputs	Connecting Capacity out AWG	Nominal voltage	Nominal Current	Allowable short duration fault current (Icw)	Maximum allowed peak fault current (Ipk)	Type Application	Length in.	Weight lbs	Quantity
DNB125-9	4	8÷4 / 10÷6	9	14÷10 / 16÷10	-	125 A	4.5 kA	30 kA	DB125-10/4 DB125-14/4	5.6	0.38	*1*
DNB160-10	4	8÷2 / 8÷4	10	14÷6 / 16÷6	-	160 A	6.2 kA	35 kA	DB160-11/4	6.6	0.42	*1*

DJ160

unipolar jumper

Type	Nominal Current	Type Application	Length in.	Weight lbs	Quantity
DJ160	125 A - 160 A	DB125-7/1N - DB160-7/1N	1.5	0.06	*5*

CEMBRE

SFI

INSULATED FLEXIBLE BUSBAR

Designation

SFI	8	x 24 (0.94)	x 1 (0.04)
Insulated flexible busbar	Number of strips	Strip width mm (in.)	Strip thickness mm (in.)

NEW | Cu-ETP ELECTROLYTIC | PVC | MAX +185°F | V0 UL94 | c UL us File no. E328218

Concept and design

Cembre SFI series insulated flexible busbar comprises a set of Cu strips within an insulated sleeve - for widths 0.35-2.0 in. this is extruded PVC, for widths 2.50-3.93 in. it is heat shrunk material.
The dielectic strength of the insulation is guaranteed independent of the eventual formation of the busbar and its working conditions (humidity, temperature and environmental aggressors).

Dimensions

Standard length:
6.6 ft. (consult us for other lengths)
Strip thickness:
0.2 - 0.04 in.
Number of strips:
2 - 12.

Applications

- Power distribution, substituting cable with extruded insulation and rigid busbar
- Electrical equipment (racks, circuit breakers, rectifiers)
- Transformers

Advantages

Insulated flexible busbar is a self-contained system combining convenient layout and connection with assured insulation and self-supporting construction, resulting in reduced cost installations with extreme ease of use.

Compared to plain busbar:

- Higher current capacity size for size
- Space saving as individual insulated busbars may be positioned in closer proximity
- Layout easier and quicker due to flexibility
- Insulated support not required.

Compared to cables:

- Simple and rapid installation
- Space saving due to tighter bend radius
- Insulated support not required.

Principle of selection

The following charts allow selection of the appropriate configuration based on:
- ambient temperature of 35°C
- required current carrying capacity in Amps
- maximum permitted temperature increase

Example of selection

Required current carrying capacity per phase is 630A.
Maximum permitted temperature in the equipment enclosure is 185°F:
- ambient temperature is 95°F
- maximum permitted temperature rise is 185°F - 95°F = 122°F

The possible selections are where the red vertical line (630A) intersects the green temperature band (122°F):

SFI8X24X1
SFI6X32X1
SFI4X40X1

The final selection will depend on limitations relating to connection palm width.

Technical features

PVC Insulation (for width 0.35-2.0in.):
- Color: Black
- Density: 1,36 g/cm^3
- Hardness: 86 Shore A
- Breaking resistance: ≃ 18 MPa
- Breaking elongation: ≃ 300 %
- Self-extinguishing class: Vo (UL94)

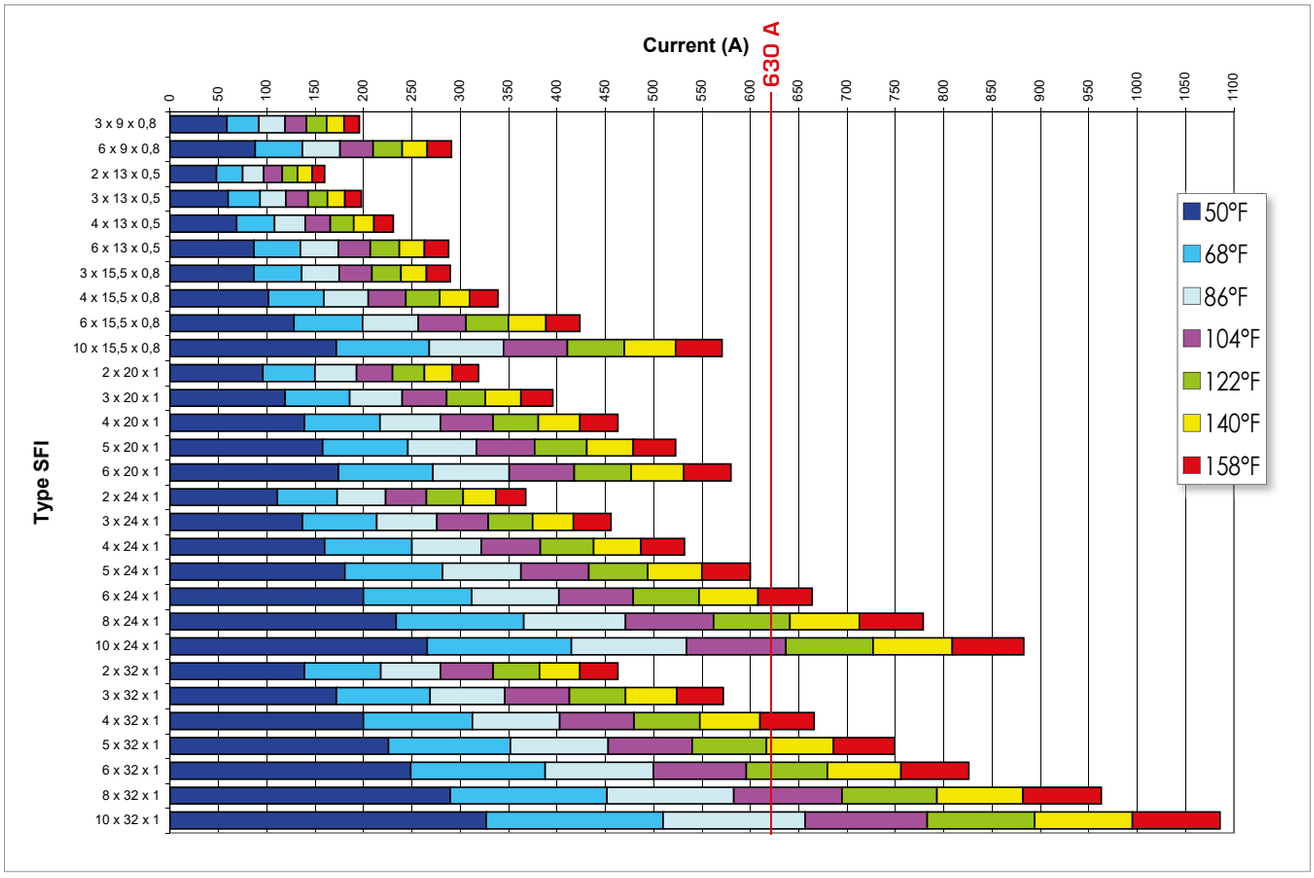
Strip:
- Copper designation: Cu-ETP
- Copper purity min: 99,9%
- Max electrical resistivity at 68°F: 1,7241μΩ/cm (100% IACS)
- Breaking resistance min: 200MPa
- Breaking elongation min: 30%
- Hardness: <55 HV
- Surface protection: Sm 99
- Thickness of tin plating: 2 ÷ 4 μm

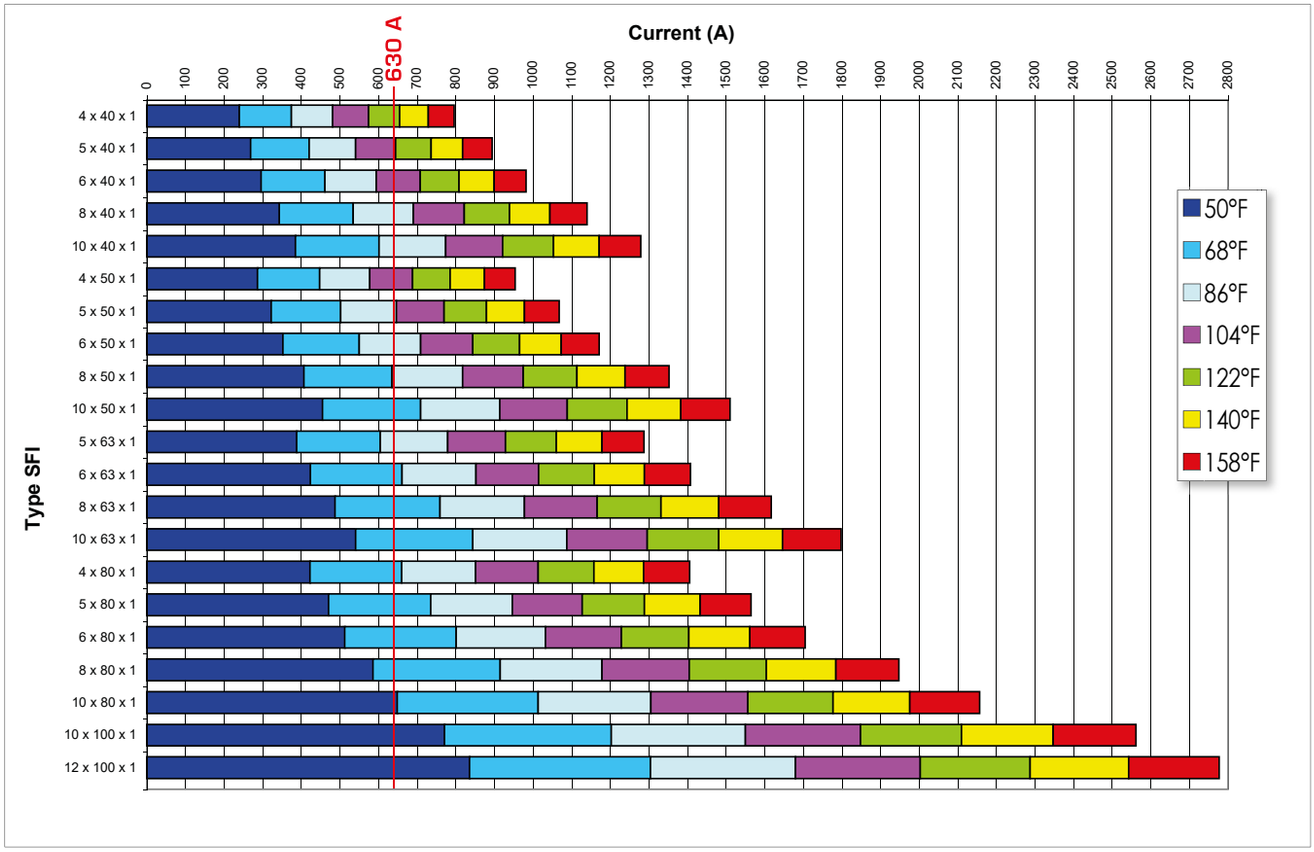
Insulated flexible busbar:
- max working voltage: 1000 V AC /1500 V DC
- Working temperature: –40°F ÷ +221°F
- Average thickness of extruded PVC: 0.08 in.
- Average dielectric strength between conductor and earth: 15 kV/mm (50Hz) between conductors: 30 kV/mm (50Hz)

Total conductor c.s.a.		Type
AWG	sqmm	
4	21,6	SFI3X9X0.8
1	43,2	SFI6X9X0.8
6	13,0	SFI2X13X0.5
-	19,5	SFI3X13X0.5
3	26	SFI4X13X0.5
-	39	SFI6X13X0.5
-	37,2	SFI3X15.5X0.8
-	49,6	SFI4X15.5X0.8
-	74,4	SFI6X15.5X0.8
250 MCM	124	SFI10X15.5X0.8
1	40	SFI2X20X1
-	60	SFI3X20X1
-	80	SFI4X20X1
-	100	SFI5X20X1
250 MCM	120	SFI6X20X1
1/0	48	SFI2X24X1
2/0	72	SFI3X24X1
3/0	96	SFI4X24X1
250 MCM	120	SFI5X24X1
-	144	SFI6X24X1
-	192	SFI8X24X1
500 MCM	240	SFI10X24X1
-	64	SFI2X32X1
3/0	96	SFI3X32X1
-	128	SFI4X32X1
-	160	SFI5X32X1
-	192	SFI6X32X1
-	256	SFI8X32X1
-	320	SFI10X32X1
-	160	SFI4X40X1
400 MCM	200	SFI5X40X1
500 MCM	240	SFI6X40X1
-	320	SFI8X40X1
800 MCM	400	SFI10X40X1
400 MCM	200	SFI4X50X1
500 MCM	250	SFI5X50X1
600 MCM	300	SFI6X50X1
800 MCM	400	SFI8X50X1
1000 MCM	500	SFI10X50X1
-	315	SFI5X63X1
-	378	SFI6X63X1
1000 MCM	504	SFI8X63X1
1250 MCM	630	SFI10X63X1
-	320	SFI4X80X1
800 MCM	400	SFI5X80X1
-	480	SFI6X80X1
-	640	SFI8X80X1
1500 MCM	800	SFI10X80X1
2000 MCM	1000	SFI10X100X1
-	1200	SFI12X100X1

Current carrying capacity (A)

Temperature increase for each configuration based on an ambient temperature of 95°F



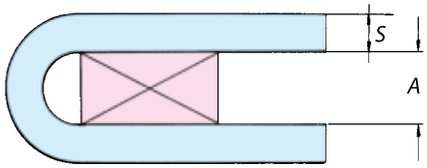


INSULATED FLEXIBLE BUSBAR

Mechanical bending and torsion testing

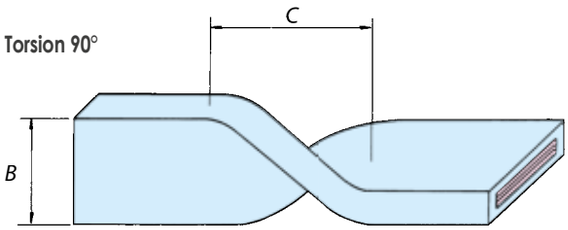
Test temperatures: –14°F and +176° F.

Bending 180°



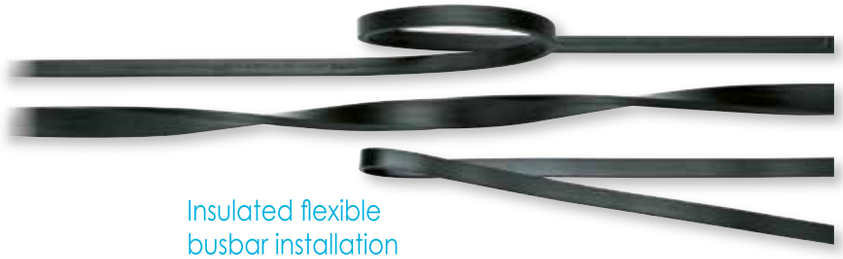
S = Bar thickness (conductor + insulation)
A = 2 x S

Torsion 90°



B = Bar width (conductor + insulation)
C = 1,5 x B

In both cases the tests do not show damage to the insulation

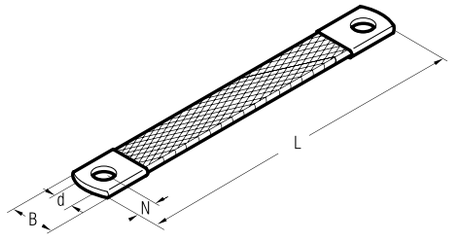


Insulated flexible busbar installation

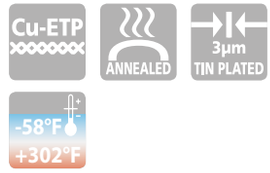
Bending:
Small section configurations may be bent manually. When tooling is used, protect the insulated sleeve of the busbar from damage.
As the Cu strips move relative to each other during bending, this operation should be completed before drilling.

Drilling:
Drilling templates type **MFB 13-40** and type **MFB 50-63** (available as optional extras) are designed to facilitate accurate location of fixing holes in the busbar of Ø 0.31, 0.39, 0.47 in.
It is recommended that the insulation of the busbar is not removed before drilling is completed, as it assists the operation.

Template type	includes drilling inserts	for bar width in.
MFB 13-40	SFB13-16	for bar width 0.51÷0.61 in.
	SFB20-24	for bar width 0.79÷0.94 in.
	SFB32-40	for bar width 1.25÷1.57 in.
MFB 50-63	SFB50-63	for bar width 1.97÷2.48 in.



Size AWG	Ø Stud in.	Type	Dimensions in.				Quantity
			B	N	L	d	
8	5/16"	**FL10-150**	0.67	0.39	5.91	0.33	50
	5/16"	**FL10-200**	0.67	0.39	7.87	0.33	50
	5/16"	**FL10-250**	0.67	0.39	9.84	0.33	50
6	5/16"	**FL16-150**	0.67	0.39	5.91	0.33	50
	5/16"	**FL16-200**	0.67	0.39	7.87	0.33	50
	5/16"	**FL16-250**	0.67	0.39	9.84	0.33	50
	5/16"	**FL16-320**	0.67	0.39	12.60	0.33	50
	5/16"	**FL16-350**	0.67	0.39	13.78	0.33	50
	5/16"	**FL16-420**	0.67	0.39	16.54	0.33	25
	5/16"	**FL16-570**	0.67	0.39	22.44	0.33	25
	5/16"	**FL16-660**	0.67	0.39	25.98	0.33	25
4	5/16"	**FL25-150**	0.83	0.39	5.91	0.33	50
	5/16"	**FL25-200**	0.83	0.39	7.87	0.33	50
	5/16"	**FL25-250**	0.83	0.39	9.84	0.33	50
	5/16"	**FL25-300**	0.83	0.39	11.81	0.33	50

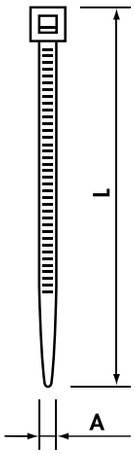


Flexible braids are manufactured from electrolytic Copper wire.
Braids of different conductor sizes or lengths are available on request.
Standard finish - bright Copper.
Flexible braids can be supplied Tin plated, in this case add the suffix "ST" to reference.

E.g.:
- FL10-150 (Bright Copper)
- FL10-150-ST (Tin plated)

PA 6.6 | V2 UL94 | -40°F +248°F | HF HALOGEN FREE

Material: PA6.6 Polyamide
Self-extinguishing V2 (UL 94)
Humidity absorption:
2.5% (at 50% relative humidity)
Operating temperature:
From –40°F to +185°F (continuous)
From –40°F to +248°F (short periods)
Resistant to:
oils, greases, oil products, chlorinated solvents.
Color: Natural or Black (Ral 2005)



Black ties have higher UV resistance due to increased carbon black loading

Natural ties offer rapid installation due to the low friction coefficient of the material

Cable Ties in PA6.6

Type	L (in.)	A (in.)	Max. Bundle Ø (in.)	Min. Loop Tensile Strength (lbs)	Quantity	
G80X2.4	3.15	0.09	0.59	18	100	Minimum order: 1,000 pcs
G80X2.4N						
G80X2.4/M					1,000	
G80X2.4N/M						
G90X2.4	3.54		0.63		100	
G90X2.4N						
G100X2.5	3.94		0.87			
G100X2.5N						
G100X2.5/M					1,000	
G100X2.5N/M						
G120X2.5	4.72		1.18		100	
G120X2.5N						
G140X2.5	5.51	0.10	1.30			
G140X2.5N						
G140X2.5/M					1,000	
G140X2.5N/M					1,000	
G160X2.5	6.3		1.57		100	
G160X2.5N						
G160X2.5/M					1,000	
G160X2.5N/M						
G200X2.5	7.87		2.09		100	
G200X2.5N						
G200X2.5/M					1,000	
G200X2.5N/M						
G250X2.8	9.84	0.11	2.56	31	100	
G250X2.8N						
G300X2.8	11.81		2.99			
G300X2.8N						
G120X3.6	4.72	0.14	1.18	40		
G120X3.6N						
G140X3.6	5.51		1.30			
G140X3.6N						
G140X3.6/M					1,000	
G140X3.6N/M						
G150X3.6	5.91		1.38		100	
G150X3.6N						
G180X3.6	7.09		1.73			
G180X3.6N						
G200X3.6	7.87		2.09			
G200X3.6N						
G200X3.6/M					1,000	
G200X3.6N/M						
G250X3.6	9.84		2.56		100	
G250X3.6N						
G300X3.6	11.81		2.99			
G300X3.6N						
G300X3.6/M					1,000	
G300X3.6N/M						
G370X3.6	14.57		4.02		100	
G370X3.6N						
G120X4.8	4.72	0.19	0.94	50		
G120X4.8N						
G160X4.8	6.30		1.50			
G160X4.8N						
G190X4.8	7.48		1.81			
G190X4.8N						
G190X4.8/M					1,000	
G190X4.8N/M						
G200X4.8	7.87		1.97		100	
G200X4.8N						
G200X4.8/M					1,000	
G200X4.8N/M						
G250X4.8/M	9.84		2.36			
G250X4.8N/M						
G250X4.8						
G250X4.8N						
G280X4.8	11.02		2.76		100	Minimum order: 100 pcs
G280X4.8N						
G300X4.8	11.81		2.99			
G300X4.8N						
G370X4.8	14.57		4.02			
G370X4.8N						
G390X4.8	15.35		4.13			
G390X4.8N						
G430X4.8	16.93		4.33			
G430X4.8N						

Note: In Type, N = Black

Recommended tools are shown on page 156

The dimensions shown in the table must be considered as nominal. Cembre reserves the right to make changes without prior notice

Cable Ties in PA6.6

Type	L (in.)	A (in.)	Max. Bundle Ø (in.)	Min. Loop Tensile Strength (lbs)	Quantity	
G450X4.8	17.72	0.19	4.57	50	100	Minimum order: 100 pcs
G450X4.8N						
G530X4.8	20.87		5.51			
G530X4.8N						
G150X7.6	5.91	0.30	1.30	120		
G150X7.6N						
G200X7.6	7.87		1.97			
G200X7.6N						
G250X7.6	9.84		2.56			
G250X7.6N						
G300X7.6	11.81		2.99			
G300X7.6N						
G370X7.6	14.57		4.02			
G370X7.6N						
G430X7.6	16.93		4.92			
G430X7.6N						
G530X7.6	20.87		5.51			
G530X7.6N						
G430X9.0	16.93	0.35	4.33	175		
G430X9.0N						
G530X9.0	20.87		5.51			
G530X9.0N						
G710X9.0	27.95		7.48			
G710X9.0N						
G780X9.0	30.71		8.98			
G780X9.0N						
G830X9.0	32.68		9.41			
G830X9.0N						
G920X9.0	36.22		10.35			
G920X9.0N						
G1020X9.0	40.16		11.61			
G1020X9.0N						
G1220X9.0	48.03		14.37			
G1220X9.0N						
G230X12.6	9.06	0.50	1.97	250		
G230X12.6N						
G380X12.6	14.96		4.17			
G480X12.6	18.90		4.72			
G480X12.6N						
G580X12.6	22.83		5.98			
G580X12.6N						
G730X12.6	28.74		8.03			
G730X12.6N						
G880X12.6	34.65		9.76			
G880X12.6N						
G1030X12.6	40.55		11.61			
G1030X12.6N						

Note: In Type, N = Black

Recommended tools are shown on page 156

The dimensions shown in the table must be considered as nominal. Cembre reserves the right to make changes without prior notice

PA 6.6

V2 UL94

-40°F +248°F

HF HALOGEN FREE

Angled tongue to facilitate easy introduction into the buckle

Rounded corners for increased safety

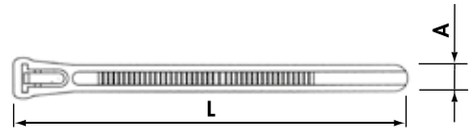
GR

CABLE TIES

GR series, PA6.6 Polyamide

PA 6.6 | V2 UL94 | -40°F +248°F | HF HALOGEN FREE

Same features as G series.
Easy installation without tools.
Released by pressure on the tongue.
Suitable for temporary locking.



Releasable cable ties in PA6.6

Type	L (in.)	A (in.)	Max. Bundle Ø (in.)	Min. Loop Tensile Strength (lbs)	Quantity
GR100X7.6N	3.94	0.30	0.79	50	100
GR120X7.6N	4.72		1.18		
GR150X7.6N	5.91		1.38		
GR200X7.6N	7.87		1.97		
GR250X7.6N	9.84		2.60		
GR300X7.6N	11.81		3.15		
GR370X7.6N	14.57		4.02		

Recommended tools are shown on page 156

The dimensions shown in the table must be considered as nominal. Cembre reserves the right to make changes without prior notice

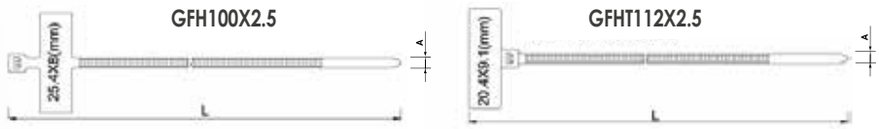
GFH

CABLE TIES

GFH series, PA6.6 Polyamide

PA 6.6 | V2 UL94 | -40°F +248°F | HF HALOGEN FREE

Same features as G series.
Quick and easy identification of bundled conductors.
Write on panel with Felt tip pen.



Markable cable ties in PA6.6

Type	L (in.)	A (in.)	Max. Bundle Ø (in.)	Min. Loop Tensile Strength (lbs)	Quantity
GFH100X2.5	3.94	0.10	0.71	17.8	100
GFHT112X2.5	4.41				

Recommended tools are shown on page 156

The dimensions shown in the table must be considered as nominal. Cembre reserves the right to make changes without prior notice

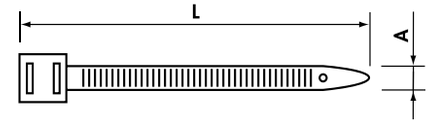
1600

CABLE TIES

1600 series, Elastomerized Polymer on Polyamide base

PA12 | HB UL94 | -49°F +248°F | UV RESISTANT | HF HALOGEN FREE

Resistant to: UV, salt atmosphere, oils, greases, oil products
Color: Black



Material: Elastomerized Polymer on Polyamide base
Self-extinguishing HB (UL94)
Halogen free
Operating temperature:
From –49°F to +185°F (continuous)
From –49°F to +248°F (short periods)

Cable Ties in PA12 Polyamide

Type	Head Type	L (in.)	A (in.)	Min. Bundle Ø (in.)	Max. Bundle Ø (in.)	Min. Loop Tensile Strength (lbs)	Quantity
1618.90	single	7.10	0.35	0.59	1.77	77.2	100
1626.90	double	10.43	0.35	1.18	2.55	112.4	100
1636.90	double	14.17	0.35	1.18	3.66	112.4	100
1651.90	double	20.07	0.35	2.75	5.51	119.0	100
1676.90	double	29.92	0.35	2.75	8.66	119.0	100

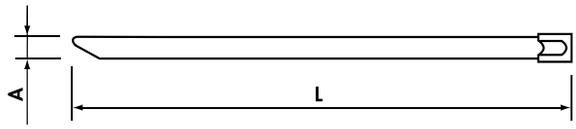
Recommended tools are shown on page 156

The dimensions shown in the table must be considered as nominal. Cembre reserves the right to make changes without prior notice

CABLE TIES

GX

GX series, in Stainless Steel AISI 304



STAINLESS STEEL

-112°F +932°F

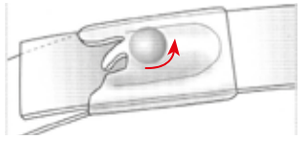
Cable Ties in Stainless Steel

Type	L (in.)	A (in.)	Max. Bundle Ø (in.)	Min. Loop Tensile Strength (lbs)	Quantity
GX200X4.5	7.87	0.18	1.97	101	100
GX300X4.5	11.81		2.99		
GX370X4.5	14.57		4.02		
GX520X4.5	20.47		6.14		
GX370X7.9	14.57	0.31	4.02	251	
GX680X7.9	26.77				
GX1020X7.9	40.16		12.3		

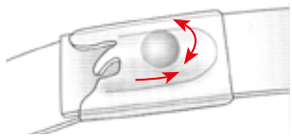
Recommended tools are shown on page 156

The dimensions shown in the table must be considered as nominal. Cembre reserves the right to make changes without prior notice

Material:
Stainless Steel AISI 304
Unique ball locking mechanism that allows simple and rapid installation and secure locking.
Operating temperature:
From –112°F to +932°F
High tensile strength.
Non-flammability.
High resistance to acetic acid, alkalies, sulphuric acid, corrosion, etc.
In general very resistant to most hostile environments.



Insert the tongue into the buckle. The internal locking ball rolls freely as the tie is tightened.

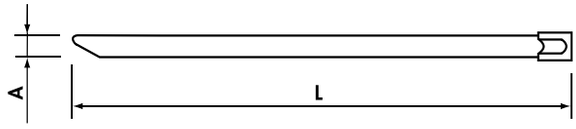


Once the correct tension is reached, use the specific tool to trim the tongue.
The ball then wedges into the buckle locking it tightly against both the top and bottom of the tie.

CABLE TIES

GXAC

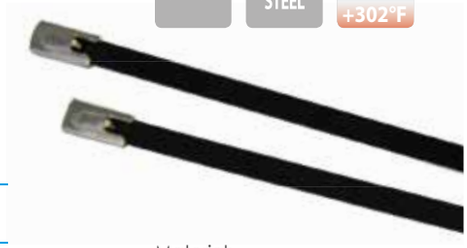
GXAC series, 316 Stainless Steel coated with Polyester



POLYESTER

STAINLESS STEEL

-40°F +302°F



Coated Stainless Steel cable ties

Type	L (in.)	A (in.)	Max. Bundle Ø (in.)	Min. Loop Tensile Strength (lbs)	Quantity
GXAC125X4.6	4.9	0.18	1.5	101	100
GXAC150X4.6	5.9		1.8		
GXAC200X4.6	7.9		2.4		
GXAC260X4.6	10.2		3.2		
GXAC290X4.6	11.4		3.6		
GXAC360X4.6	14.2		4.4		
GXAC520X4.6	20.5		6.4		
GXAC680X4.6	26.8		8.5		
GXAC840X4.6	33.1		10.5		
GXAC200X7.9	7.9	0.31	2.4	251	
GXAC290X7.9	11.4		3.6		
GXAC360X7.9	14.2		4.4		
GXAC520X7.9	20.5		6.4		
GXAC680X7.9	26.8		8.5		
GXAC840X7.9	33.1		10.5		

Recommended tools are shown on page 156

The dimensions shown in the table must be considered as nominal. Cembre reserves the right to make changes without prior notice

Material:
316 stainless steel for the most corrosive environments coated with Polyester for insulation purpose, and a better outdoor application
Color: Black
Smooth surface and rounded edges assures cable protection and user safety.
Equipped with unique ball locking mechanism that allows simple and rapid installation and secure locking.
Operating temperature:
from -40°F to +302°F
High tensile strength
Very resistant to ultraviolet radiation and chemical corrosion
Non flammable

AB, CC, SS

ACCESSORIES

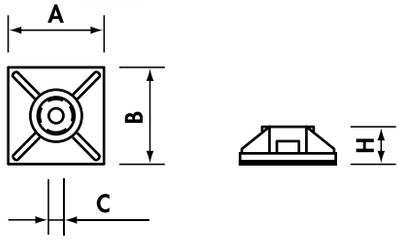
PA6.6 Polyamide

PA 6.6 | V2 UL94 | -40°F +248°F

Material: PA6.6 Polyamide
Self-extinguishing V2 (UL 94)
Humidity absorption:
2,5% (at 50% relative humidity)
Operating temperature:
From –40°F to +185°C (continuous)
From –40°F to +248°C (short periods)

Resistant to:
oils, bases, greases, oil products, chlorinated solvents.
Color: Natural

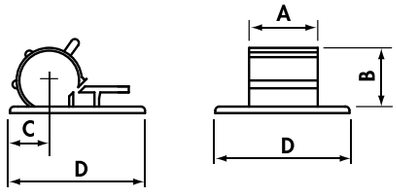
Attention:
acrylic adhesive; to obtain the best result, wait at least 6 - 8 hours before applying the load.



Self adhesive cable tie bases in PA6.6

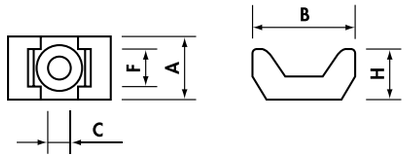
Type	Max Tie (in.)	A (in.)	B (in.)	C (in.)	H (in.)	Fixing screw hole Ø (in.)	Quantity
AB13*	0.11	0.51	0.51	0.12	0.12	-	100
AB19*	0.14	0.75	0.75	0.16	0.17	0.12	100
AB28*	0.19	1.10	1.10	0.21	0.22	0.21	100

***Add to Ref: N for Black**



Self adhesive cable clips in PA6.6

Type	Cable Ø (in.)	A (in.)	B (in.)	C (in.)	D (in.)	Quantity
CC8.9	0.31 - 0.35	0.35	0.47	0.31	0.85	100
CC9.12	0.35 - 0.47	0.47	0.59	0.32	0.85	100



Cable tie saddle clamps in PA6.6

Type	Max Tie (in.)	A (in.)	B (in.)	C (in.)	F (in.)	H (in.)	Quantity
SS4.8-3.7	0.19	0.37	0.59	0.14	0.20	0.28	100
SS4.8-4.5	0.19	0.37	0.59	0.18	0.20	0.28	100
SS9-4.5	0.35	0.63	0.87	0.18	0.36	0.38	100
SS9-5	0.35	0.63	0.87	0.20	0.36	0.38	100
SS9-6.4	0.35	0.63	0.87	0.25	0.36	0.38	100

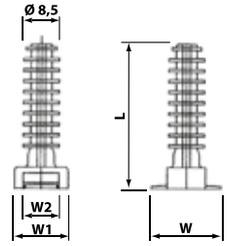
GH8

ACCESSORIES

PA6.6 Polyamide

PA 6.6 | V2 UL94 | -40°F +248°F

Same features as G series.
Push into Ø 0.315 in. hole.
Cable tie inserted through slot in head.



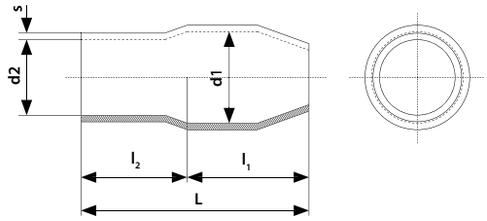
Stud fixing for cable ties in PA6.6

Type	W (in.)	W1 (in.)	W2 (in.)	L (in.)	Fixing hole Ø (in.)	Quantity
GH8	0.79	0.59	0.39	1.59	0.31	100

INSULATED COVERS

ES

For uninsulated connectors



Insulated covers in PVC for general use with Cembre A-M copper tube lugs characterised by environmental tolerance, flexibility, not inflammability & stable performance. Widely used for the insulation and protection of connections and electrical terminations.

General features:

- Material: PVC
- Self extinguishing (UL94): V0
- Working temperature: 185°F
- Colors: red, yellow, blue, black, grey, brown.

Type	Connectors A-M *	d1 Ø	d2 Ø	l1 ±0.04	l2 ±0.04	L ±0.08	s ±0.008	Quantity	Minimum Order Qty
ES03-..	A03	0.13	0.12	0.28	0.31	0.59	0.024	*100*	*3,000*
ES06-..	A06	0.18	0.15	0.31	0.31	0.63	0.028	*100*	
ES1-..	A1	0.22	0.16	0.35	0.35	0.71	0.031	*100*	
ES2-..	A2	0.28	0.24	0.43	0.39	0.83	0.039	*100*	
ES3-..	A3	0.39	0.31	0.59	0.51	1.10	0.043	*100*	*1,000*
ES5-..	A5	0.47	0.37	0.59	0.55	1.14	0.047	*100*	
ES10-..	A7, A9, A10	0.55	0.46	0.67	0.67	1.34	0.055	*100*	
ES14-..	A12, A14	0.67	0.55	0.87	0.79	1.65	0.059	*100*	*500*
ES19-..	A17, A19	0.75	0.63	0.98	0.83	1.81	0.059	*50*	
ES24-..	A20, A24	0.87	0.71	1.22	0.94	2.17	0.067	*50*	*200*
ES30-..	A29, A30	0.94	0.79	1.26	1.10	2.36	0.071	*50*	
ES37-..	A35, A37	1.02	0.87	1.34	1.22	2.56	0.071	*50*	
ES40-..	A40	1.27	0.94	1.50	1.22	2.72	0.079	*50*	
ES48-..	A48	1.44	1.07	1.65	1.30	2.95	0.079	*50*	*100*
ES80-..	A60, A80	1.44	1.18	1.65	1.30	2.95	0.079	*25*	

Add the suffix corresponding to the selected color to the reference:

-BU blue, -GY grey, -BR brown, -BK black, -RE red, -YE yellow,

** See A-M type copper tube lugs on pages 30-31, 42*
*** Depending on the diameter of the insulated cable*

CEMBRE

TCS

TERMOCOIL HEAT-SHRINKABLE TUBING

flame-retardant Polyolefin - shrinkage ratio 2÷1

Heat-shrinkable Polyolefin tubing coil for general use; is environmentally neutral, flexible, not inflammable and offers fast heat shrinkage and stable performance.
Main uses include insulation and protection of electrical conductors, connectors and terminations; protection of metal tubes from corrosion; protection of antennae and various identification applications.

For general characteristics and technical specifications see page 94.

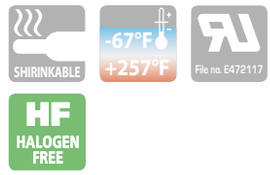
- Colors: Black, Red, White, Blue, Transparent, Yellow, Green, Grey, Brown, Yellow/Green.
- Packaging: Coil on Reel

		before shrinking	after shrinking		
Type	Coil Length ft	Internal Ø in.	Internal Ø in.	Thickness in.	Color
TCS12X200BK	656	0.043	0.020	0.013	BLACK
TCS16X200BK	656	0.059	0.026	0.014	BLACK
TCS24X200BK	656	0.098	0.039	0.018	BLACK
TCS32X200BK	656	0.118	0.051	0.018	BLACK
TCS48X100BK	328	0.185	0.079	0.018	BLACK
TCS64X100BK	328	0.256	0.118	0.022	BLACK
TCS95X100BK	328	0.374	0.177	0.022	BLACK
TCS127X100BK	328	0.492	0.236	0.022	BLACK
TCS160X100BK	328	0.65	0.315	0.028	BLACK
TCS190X100BK	328	0.748	0.354	0.028	BLACK
TCS254X50BK	164	1.024	0.492	0.035	BLACK
TCS320X50BK	164	1.24	0.591	0.039	BLACK
TCS381X50BK	164	1.437	0.689	0.039	BLACK
TCS508X25BK	82	1.969	0.984	0.043	BLACK
TCS762X25BK	82	2.756	1.417	0.051	BLACK
TCS1016X25BK	82	3.937	2.008	0.051	BLACK
TCS1260X25BK	82	4.724	2.402	0.051	BLACK
TCS1500X25BK	82	5.906	2.992	0.051	BLACK
TCS16X200RE	656	0.059	0.026	0.014	RED
TCS24X200RE	656	0.098	0.039	0.018	RED
TCS32X200RE	656	0.118	0.051	0.018	RED
TCS48X100RE	328	0.185	0.079	0.018	RED
TCS64X100RE	328	0.256	0.118	0.022	RED
TCS95X100RE	328	0.374	0.177	0.022	RED
TCS127X100RE	328	0.492	0.236	0.022	RED
TCS190X100RE	328	0.748	0.354	0.028	RED
TCS254X50RE	164	1.024	0.492	0.035	RED
TCS16X200WH	656	0.059	0.026	0.014	WHITE
TCS20X200WH	656	0.079	0.033	0.014	WHITE
TCS24X200WH	656	0.098	0.039	0.018	WHITE
TCS32X200WH	656	0.118	0.051	0.018	WHITE
TCS48X100WH	328	0.185	0.079	0.018	WHITE
TCS64X100WH	328	0.256	0.118	0.022	WHITE
TCS95X100WH	328	0.374	0.177	0.022	WHITE
TCS127X100WH	328	0.492	0.236	0.022	WHITE
TCS190X100WH	328	0.748	0.354	0.028	WHITE
TCS254X50WH	164	1.024	0.492	0.035	WHITE
TCS16X200BU	656	0.059	0.026	0.014	BLUE
TCS24X200BU	656	0.098	0.039	0.018	BLUE
TCS32X200BU	656	0.118	0.051	0.018	BLUE
TCS48X100BU	328	0.185	0.079	0.018	BLUE
TCS64X100BU	328	0.256	0.118	0.022	BLUE
TCS95X100BU	328	0.374	0.177	0.022	BLUE
TCS127X100BU	328	0.492	0.236	0.022	BLUE
TCS190X100BU	328	0.748	0.354	0.028	BLUE
TCS254X50BU	164	1.024	0.492	0.035	BLUE
TCS381X50BU	164	1.437	0.689	0.039	BLUE
TCS508X25BU NEW	82	1.969	0.984	0.043	BLUE

TERMOCOIL HEAT-SHRINKABLE TUBING

TCS

flame-retardant Polyolefin - shrinkage ratio 2÷1



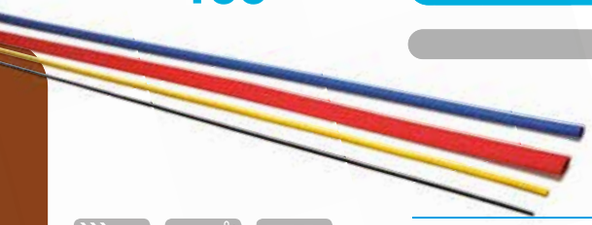
Type	Coil Length ft	before shrinking Internal Ø in.	after shrinking Internal Ø in.	after shrinking Thickness in.	Color
TCS12X200TR	656	0.043	0.020	0.013	TRANSPARENT
TCS16X200TR	656	0.059	0.026	0.014	TRANSPARENT
TCS24X200TR	656	0.098	0.039	0.018	TRANSPARENT
TCS32X200TR	656	0.118	0.051	0.018	TRANSPARENT
TCS48X100TR	328	0.185	0.079	0.018	TRANSPARENT
TCS64X100TR	328	0.256	0.118	0.022	TRANSPARENT
TCS95X100TR	328	0.374	0.177	0.022	TRANSPARENT
TCS127X100TR	328	0.492	0.236	0.022	TRANSPARENT
TCS160X100TR	328	0.65	0.315	0.028	TRANSPARENT
TCS190X100TR	328	0.748	0.354	0.028	TRANSPARENT
TCS254X50TR	164	1.024	0.492	0.035	TRANSPARENT
TCS320X50TR	164	1.24	0.591	0.039	TRANSPARENT
TCS381X50TR	164	1.437	0.689	0.039	TRANSPARENT
TCS508X25TR	82	1.969	0.984	0.043	TRANSPARENT
TCS762X25TR	82	2.756	1.417	0.051	TRANSPARENT
TCS1016X25TR	82	3.937	2.008	0.051	TRANSPARENT
TCS1260X25TR	82	4.724	2.402	0.051	TRANSPARENT
TCS1500X25TR	82	5.906	2.992	0.051	TRANSPARENT
TCS16X200YE	656	0.059	0.026	0.014	YELLOW
TCS24X200YE	656	0.098	0.039	0.018	YELLOW
TCS32X200YE	656	0.118	0.051	0.018	YELLOW
TCS48X100YE	328	0.185	0.079	0.018	YELLOW
TCS64X100YE	328	0.256	0.118	0.022	YELLOW
TCS95X100YE	328	0.374	0.177	0.022	YELLOW
TCS127X100YE	328	0.492	0.236	0.022	YELLOW
TCS190X100YE	328	0.748	0.354	0.028	YELLOW
TCS254X50YE	164	1.024	0.492	0.035	YELLOW
TCS16X200GN	656	0.059	0.026	0.014	GREEN
TCS24X200GN	656	0.098	0.039	0.018	GREEN
TCS32X200GN	656	0.118	0.051	0.018	GREEN
TCS48X100GN	328	0.185	0.079	0.018	GREEN
TCS64X100GN	328	0.256	0.118	0.022	GREEN
TCS95X100GN	328	0.374	0.177	0.022	GREEN
TCS127X100GN	328	0.492	0.236	0.022	GREEN
TCS190X100GN	328	0.748	0.354	0.028	GREEN
TCS254X50GN	164	1.024	0.492	0.035	GREEN
TCS16X200GY	656	0.059	0.026	0.014	GREY
TCS24X200GY	656	0.098	0.039	0.018	GREY
TCS32X200GY	656	0.118	0.051	0.018	GREY
TCS48X100GY	328	0.185	0.079	0.018	GREY
TCS64X100GY	328	0.256	0.118	0.022	GREY
TCS95X100GY	328	0.374	0.177	0.022	GREY
TCS127X100GY	328	0.492	0.236	0.022	GREY
TCS190X100GY	328	0.748	0.354	0.028	GREY
TCS254X50GY	164	1.024	0.492	0.035	GREY
TCS381X50GY	164	1.437	0.689	0.039	GREY
TCS508X25GY **NEW**	82	1.969	0.984	0.043	GREY
TCS16X200BR	656	0.059	0.026	0.014	BROWN
TCS24X200BR	656	0.098	0.039	0.018	BROWN
TCS32X200BR	656	0.118	0.051	0.018	BROWN
TCS48X100BR	328	0.185	0.079	0.018	BROWN
TCS64X100BR	328	0.256	0.118	0.022	BROWN
TCS95X100BR	328	0.374	0.177	0.022	BROWN
TCS127X100BR	328	0.492	0.236	0.022	BROWN
TCS190X100BR	328	0.748	0.354	0.028	BROWN
TCS254X50BR	164	1.024	0.492	0.035	BROWN
TCS381X50BR	164	1.437	0.689	0.039	BROWN
TCS508X25BR	82	1.969	0.984	0.043	BROWN
TCS32X200Y/G	656	0.118	0.051	0.018	YELLOW/GREEN
TCS48X100Y/G	328	0.185	0.079	0.018	YELLOW/GREEN
TCS64X100Y/G	328	0.256	0.118	0.022	YELLOW/GREEN
TCS95X100Y/G	328	0.374	0.177	0.022	YELLOW/GREEN
TCS127X100Y/G	328	0.492	0.236	0.022	YELLOW/GREEN
TCS190X100Y/G	328	0.748	0.354	0.028	YELLOW/GREEN
TCS254X50Y/G	164	1.024	0.492	0.035	YELLOW/GREEN
TCS381X50Y/G	164	1.437	0.689	0.039	YELLOW/GREEN
TCS508X25Y/G **NEW**	82	1.969	0.984	0.043	YELLOW/GREEN

CEMBRE

TSS

TERMOSTRIP HEAT-SHRINKABLE TUBING

flame-retardant Polyolefin - shrinkage ratio 2÷1



SHRINKABLE -67°F +257°F File no. E472117

HF HALOGEN FREE

Heat-shrinkable Polyolefin tubing strip for general use; is environmentally neutral, flexible, not inflammable and offers fast heat shrinkage and stable performance.
Main uses include insulation and protection of electrical conductors, connectors and terminations; protection of metal tubes from corrosion; protection of antennae and various identification applications.

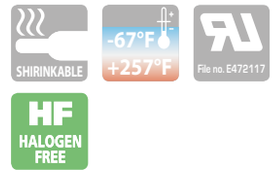
For general characteristics and technical specifications see page 94.

- Colors: Black, Red, White, Blue, Transparent, Yellow, Green, Grey, Brown, Yellow/Green.
- Packaging: Strips in Box

		before shrinking	after shrinking			
Type	Strip Length ft	Internal Ø in.	Internal Ø in.	Thickness in.	Color	Quantity Strips per box
TSS12BK	4	0.043	0.020	0.013	BLACK	30
TSS16BK	4	0.059	0.026	0.014	BLACK	30
TSS24BK	4	0.098	0.039	0.018	BLACK	30
TSS32BK	4	0.118	0.051	0.018	BLACK	30
TSS48BK	4	0.185	0.079	0.018	BLACK	30
TSS64BK	4	0.256	0.118	0.022	BLACK	30
TSS95BK	4	0.374	0.177	0.022	BLACK	20
TSS127BK	4	0.492	0.236	0.022	BLACK	15
TSS190BK	4	0.748	0.354	0.028	BLACK	10
TSS254BK	4	1.024	0.492	0.035	BLACK	6
TSS380BK	4	1.437	0.689	0.039	BLACK	4
TSS510BK	4	1.969	0.984	0.043	BLACK	2
TSS12RE	4	0.043	0.020	0.013	RED	30
TSS16RE	4	0.059	0.026	0.014	RED	30
TSS24RE	4	0.098	0.039	0.018	RED	30
TSS32RE	4	0.118	0.051	0.018	RED	30
TSS48RE	4	0.185	0.079	0.018	RED	30
TSS64RE	4	0.256	0.118	0.022	RED	30
TSS95RE	4	0.374	0.177	0.022	RED	20
TSS127RE	4	0.492	0.236	0.022	RED	15
TSS190RE	4	0.748	0.354	0.028	RED	10
TSS254RE	4	1.024	0.492	0.035	RED	6
TSS380RE	4	1.437	0.689	0.039	RED	4
TSS510RE	4	1.969	0.984	0.043	RED	2
TSS12WH	4	0.043	0.020	0.013	WHITE	30
TSS16WH	4	0.059	0.026	0.014	WHITE	30
TSS24WH	4	0.098	0.039	0.018	WHITE	30
TSS32WH	4	0.118	0.051	0.018	WHITE	30
TSS48WH	4	0.185	0.079	0.018	WHITE	30
TSS64WH	4	0.256	0.118	0.022	WHITE	30
TSS95WH	4	0.374	0.177	0.022	WHITE	20
TSS127WH	4	0.492	0.236	0.022	WHITE	15
TSS190WH	4	0.748	0.354	0.028	WHITE	10
TSS254WH	4	1.024	0.492	0.035	WHITE	6
TSS380WH	4	1.437	0.689	0.039	WHITE	4
TSS510WH	4	1.969	0.984	0.043	WHITE	2
TSS12BU	4	0.043	0.020	0.013	BLUE	30
TSS16BU	4	0.059	0.026	0.014	BLUE	30
TSS24BU	4	0.098	0.039	0.018	BLUE	30
TSS32BU	4	0.118	0.051	0.018	BLUE	30
TSS48BU	4	0.185	0.079	0.018	BLUE	30
TSS64BU	4	0.256	0.118	0.022	BLUE	30
TSS95BU	4	0.374	0.177	0.022	BLUE	20
TSS127BU	4	0.492	0.236	0.022	BLUE	15
TSS190BU	4	0.748	0.354	0.028	BLUE	10
TSS254BU	4	1.024	0.492	0.035	BLUE	6
TSS380BU	4	1.437	0.689	0.039	BLUE	4
TSS510BU	4	1.969	0.984	0.043	BLUE	2
TSS12TR	4	0.043	0.020	0.013	TRANSPARENT	30
TSS16TR	4	0.059	0.026	0.014	TRANSPARENT	30
TSS24TR	4	0.098	0.039	0.018	TRANSPARENT	30
TSS32TR	4	0.118	0.051	0.018	TRANSPARENT	30
TSS48TR	4	0.185	0.079	0.018	TRANSPARENT	30
TSS64TR	4	0.256	0.118	0.022	TRANSPARENT	30
TSS95TR	4	0.374	0.177	0.022	TRANSPARENT	20
TSS127TR	4	0.492	0.236	0.022	TRANSPARENT	15
TSS190TR	4	0.748	0.354	0.028	TRANSPARENT	10
TSS254TR	4	1.024	0.492	0.035	TRANSPARENT	6
TSS380TR	4	1.437	0.689	0.039	TRANSPARENT	4
TSS510TR	4	1.969	0.984	0.043	TRANSPARENT	2

TERMOSTRIP HEAT-SHRINKABLE TUBING

flame-retardant Polyolefin - shrinkage ratio 2÷1



Type	Strip Length ft	before shrinking Internal Ø in.	after shrinking Internal Ø in.	after shrinking Thickness in.	Color	Quantity Strips per box
TSS12YE	4	0.043	0.020	0.013	YELLOW	30
TSS16YE	4	0.059	0.026	0.014	YELLOW	30
TSS24YE	4	0.098	0.039	0.018	YELLOW	30
TSS32YE	4	0.118	0.051	0.018	YELLOW	30
TSS48YE	4	0.185	0.079	0.018	YELLOW	30
TSS64YE	4	0.256	0.118	0.022	YELLOW	30
TSS95YE	4	0.374	0.177	0.022	YELLOW	20
TSS127YE	4	0.492	0.236	0.022	YELLOW	15
TSS190YE	4	0.748	0.354	0.028	YELLOW	10
TSS254YE	4	1.024	0.492	0.035	YELLOW	6
TSS380YE	4	1.437	0.689	0.039	YELLOW	4
TSS510YE	4	1.969	0.984	0.043	YELLOW	2
TSS12GN	4	0.043	0.020	0.013	GREEN	30
TSS16GN	4	0.059	0.026	0.014	GREEN	30
TSS24GN	4	0.098	0.039	0.018	GREEN	30
TSS32GN	4	0.118	0.051	0.018	GREEN	30
TSS48GN	4	0.185	0.079	0.018	GREEN	30
TSS64GN	4	0.256	0.118	0.022	GREEN	30
TSS95GN	4	0.374	0.177	0.022	GREEN	20
TSS127GN	4	0.492	0.236	0.022	GREEN	15
TSS190GN	4	0.748	0.354	0.028	GREEN	10
TSS254GN	4	1.024	0.492	0.035	GREEN	6
TSS380GN	4	1.437	0.689	0.039	GREEN	4
TSS510GN	4	1.969	0.984	0.043	GREEN	2
TSS12GY	4	0.043	0.020	0.013	GREY	30
TSS16GY	4	0.059	0.026	0.014	GREY	30
TSS24GY	4	0.098	0.039	0.018	GREY	30
TSS32GY	4	0.118	0.051	0.018	GREY	30
TSS48GY	4	0.185	0.079	0.018	GREY	30
TSS64GY	4	0.256	0.118	0.022	GREY	30
TSS95GY	4	0.374	0.177	0.022	GREY	20
TSS127GY	4	0.492	0.236	0.022	GREY	15
TSS190GY	4	0.748	0.354	0.028	GREY	10
TSS254GY	4	1.024	0.492	0.035	GREY	6
TSS380GY	4	1.437	0.689	0.039	GREY	4
TSS510GY	4	1.969	0.984	0.043	GREY	2
TSS12BR	4	0.043	0.020	0.013	BROWN	30
TSS16BR	4	0.059	0.026	0.014	BROWN	30
TSS24BR	4	0.098	0.039	0.018	BROWN	30
TSS32BR	4	0.118	0.051	0.018	BROWN	30
TSS48BR	4	0.185	0.079	0.018	BROWN	30
TSS64BR	4	0.256	0.118	0.022	BROWN	30
TSS95BR	4	0.374	0.177	0.022	BROWN	20
TSS127BR	4	0.492	0.236	0.022	BROWN	15
TSS190BR	4	0.748	0.354	0.028	BROWN	10
TSS254BR	4	1.024	0.492	0.035	BROWN	6
TSS380BR	4	1.437	0.689	0.039	BROWN	4
TSS510BR	4	1.969	0.984	0.043	BROWN	2
TSS16Y/G	4	0.059	0.026	0.014	YELLOW/GREEN	30
TSS24Y/G	4	0.098	0.039	0.018	YELLOW/GREEN	30
TSS32Y/G	4	0.118	0.051	0.018	YELLOW/GREEN	30
TSS48Y/G	4	0.185	0.079	0.018	YELLOW/GREEN	30
TSS64Y/G	4	0.256	0.118	0.022	YELLOW/GREEN	30
TSS95Y/G	4	0.374	0.177	0.022	YELLOW/GREEN	20
TSS127Y/G	4	0.492	0.236	0.022	YELLOW/GREEN	15
TSS190Y/G	4	0.748	0.354	0.028	YELLOW/GREEN	10
TSS254Y/G	4	1.024	0.492	0.035	YELLOW/GREEN	6
TSS380Y/G	4	1.437	0.689	0.039	YELLOW/GREEN	4

TBS

TERMOBLOCK HEAT-SHRINKABLE TUBING

flame-retardant Polyolefin - shrinkage ratio 2÷1

General characteristics:

- Operating temperature: -67°F + 257°F
- Minimum shrinkage temperature: 158°F
- Temperature for complete shrinkage: 230°F
- RoHS compliant
- Colors: Black, Red, White, Blue, Grey, Brown, Yellow/Green.
- Packaging: Roll in Dispenser Box

Heat-shrinkable Polyolefin tubing for general use; is environmentally neutral, flexible, not inflammable and offers fast heat shrinkage and stable performance.

Main uses include insulation and protection of electrical conductors, connectors and terminations; protection of metal tubes from corrosion; protection of antennae and various identification applications.

Technical Specifications:

Property	Test Method	Performance
Traction resistance (MPa):	ASTM D2671	≥10.4
Elongation at failure (%):	ASTM D2671	≥200
Traction resistance after heat aging (MPa):	UL 224 316.4°F (158°C)×168hr	≥7.3
Elongation at failure after heat aging (%):	UL 224 316.4°F (158°C)×168hr	≥100
Heat resistance:	UL 224 482°F (250°C)×4hr	No failure
Low temperature flexibility:	UL 224 -22°F (-30°C)×4hr	No failure
Dielectric strength (kv/mm):	IEC 243	≥15
Insulation resistance:	600V UL 224	No perforation at 2500V
Volume resistance (Ω.cm):	IEC 93	$\geq 1x10^{14}$
Corrosive action:	UL 224 316.4°F (158°C)×168hr	Not corrosive
Copper compatibility:	UL 224 316.4°F (158°C)×168hr	Not corrosive
Flammability:	UL 224	VW-1

		before shrinking	after shrinking		
Type	Reel Length ft	Internal Ø in.	Internal Ø in.	Thickness in.	Color
TBS16X20BK	65.6	0.059	0.026	0.014	BLACK
TBS24X20BK	65.6	0.098	0.039	0.018	BLACK
TBS32X10BK	32.8	0.118	0.051	0.018	BLACK
TBS48X10BK	32.8	0.185	0.079	0.018	BLACK
TBS64X10BK	32.8	0.256	0.118	0.022	BLACK
TBS95X10BK	32.8	0.374	0.177	0.022	BLACK
TBS127X10BK	32.8	0.492	0.236	0.022	BLACK
TBS190X5BK	16.4	0.748	0.354	0.028	BLACK
TBS254X5BK	16.4	1.024	0.492	0.035	BLACK
TBS16X20RE	65.6	0.059	0.026	0.014	RED
TBS24X20RE	65.6	0.098	0.039	0.018	RED
TBS32X10RE	32.8	0.118	0.051	0.018	RED
TBS48X10RE	32.8	0.185	0.079	0.018	RED
TBS64X10RE	32.8	0.256	0.118	0.022	RED
TBS95X10RE	32.8	0.374	0.177	0.022	RED
TBS127X10RE	32.8	0.492	0.236	0.022	RED
TBS190X5RE	16.4	0.748	0.354	0.028	RED
TBS254X5RE	16.4	1.024	0.492	0.035	RED
TBS16X20WH	65.6	0.059	0.026	0.014	WHITE
TBS24X20WH	65.6	0.098	0.039	0.018	WHITE
TBS32X10WH	32.8	0.118	0.051	0.018	WHITE
TBS48X10WH	32.8	0.185	0.079	0.018	WHITE
TBS64X10WH	32.8	0.256	0.118	0.022	WHITE
TBS95X10WH	32.8	0.374	0.177	0.022	WHITE
TBS127X10WH	32.8	0.492	0.236	0.022	WHITE
TBS190X5WH	16.4	0.748	0.354	0.028	WHITE
TBS254X5WH	16.4	1.024	0.492	0.035	WHITE
TBS16X20BU	65.6	0.059	0.026	0.014	BLUE
TBS24X20BU	65.6	0.098	0.039	0.018	BLUE
TBS32X10BU	32.8	0.118	0.051	0.018	BLUE
TBS48X10BU	32.8	0.185	0.079	0.018	BLUE
TBS64X10BU	32.8	0.256	0.118	0.022	BLUE
TBS95X10BU	32.8	0.374	0.177	0.022	BLUE
TBS127X10BU	32.8	0.492	0.236	0.022	BLUE
TBS190X5BU	16.4	0.748	0.354	0.028	BLUE
TBS254X5BU	16.4	1.024	0.492	0.035	BLUE

		before shrinking	after shrinking		
Type	Reel Length ft	Internal Ø in.	Internal Ø in.	Thickness in.	Color
TBS16X20GY	65.6	0.059	0.026	0.014	GREY
TBS24X20GY	65.6	0.098	0.039	0.018	GREY
TBS32X10GY	32.8	0.118	0.051	0.018	GREY
TBS48X10GY	32.8	0.185	0.079	0.018	GREY
TBS64X10GY	32.8	0.256	0.118	0.022	GREY
TBS95X10GY	32.8	0.374	0.177	0.022	GREY
TBS127X10GY	32.8	0.492	0.236	0.022	GREY
TBS190X5GY	16.4	0.748	0.354	0.028	GREY
TBS254X5GY	16.4	1.024	0.492	0.035	GREY
TBS16X20BR	65.6	0.059	0.026	0.014	BROWN
TBS24X20BR	65.6	0.098	0.039	0.018	BROWN
TBS32X10BR	32.8	0.118	0.051	0.018	BROWN
TBS48X10BR	32.8	0.185	0.079	0.018	BROWN
TBS64X10BR	32.8	0.256	0.118	0.022	BROWN
TBS95X10BR	32.8	0.374	0.177	0.022	BROWN
TBS127X10BR	32.8	0.492	0.236	0.022	BROWN
TBS190X5BR	16.4	0.748	0.354	0.028	BROWN
TBS254X5BR	16.4	1.024	0.492	0.035	BROWN
TBS16X20Y/G	65.6	0.059	0.026	0.014	YELLOW/GREEN
TBS24X20Y/G	65.6	0.098	0.039	0.018	YELLOW/GREEN
TBS32X10Y/G	32.8	0.118	0.051	0.018	YELLOW/GREEN
TBS48X10Y/G	32.8	0.185	0.079	0.018	YELLOW/GREEN
TBS64X10Y/G	32.8	0.256	0.118	0.022	YELLOW/GREEN
TBS95X10Y/G	32.8	0.374	0.177	0.022	YELLOW/GREEN
TBS127X10Y/G	32.8	0.492	0.236	0.022	YELLOW/GREEN
TBS190X5Y/G	16.4	0.748	0.354	0.028	YELLOW/GREEN
TBS254X5Y/G	16.4	1.024	0.492	0.035	YELLOW/GREEN

Shells

Manufactured from transparent synthetic material which allows a visual check of the connections before and after casting.
The halves of the shell are joined by snap closures which avoid further fixing or sealing.

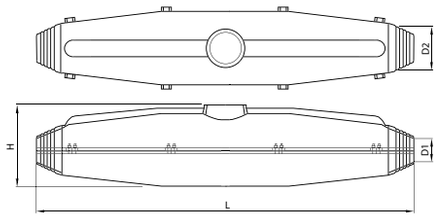
Shells are left on after casting to provide additional protection against mechanical abrasion, chemical agents and severe weather conditions.

STRAIGHT JOINTS

Type	Dimensions in.				Dimensions Cable	
	L	H	D1(1)	D2(1)	Cable Diameter in.	Indicative Cable Section (2) AWG
N11	7.87	1.97	0.31	1.02	0.31 - 0.98	4C x 16 ÷ 8
N12	10.2	2.64	0.63	1.26	0.63 - 1.22	4C x 8 ÷ 4
N13	14.2	2.95	0.83	1.50	2.95 - 1.42	4C x 2 ÷ 1/0
N14	15.7	3.94	1.02	1.61	3.94 - 1.54	4C x 1/0 ÷ 2/0
N15	20.9	5.12	1.38	2.20	5.12 - 2.13	4C x 3/0 ÷ 300 MCM
N16	27.6	5.90	1.85	2.91	5.90 - 2.83	4C x 350 MCM ÷ 600 MCM

(1) Internal dimension of the shell

(2) Indicative cable sections are approximate and concern only harmonised, PVC or Rubber insulated cables at a working voltage of 0,6/1 kV

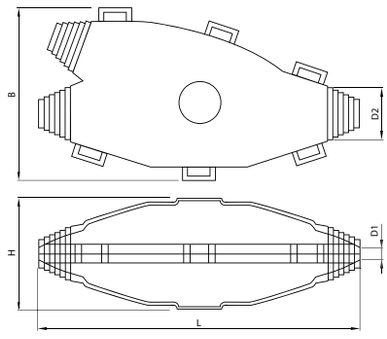


BRANCH JOINTS

Type	Dimensions in.					Dimensions Cable		
	L	H	B	D1(1)	D2(1)	Cable Diameter in.	Indicative Cable Section (2) AWG	
							Passante	Derivato
NY00	5.90	1.85	2.76	0.43	0.79	0.43 - 0.79	4C x 16 ÷ 14	4C x 16
NY0	6.89	2.36	3.70	0.24	0.87	0.24 - 0.83	4C x 12 ÷ 8	4C x 12
NY1	8.86	2.95	4.33	0.35	1.02	0.35 - 0.94	4C x 10 ÷ 4	4C x 6

(1) Internal dimension of the shell

(2) Indicative cable sections are approximate and concern only harmonised, PVC or Rubber insulated cables at a working voltage of 0,6/1 kV



CAST RESIN JOINTS

cast resin, low voltage through joints

Cast resin technology

PUR-cast resin technology was introduced to seal and protect power, signal and telephone cable joints.
This new generation of two component cast resin has been developed for the most demanding environments and circumstances.

Cembre cast resin joints meet the requirements of EN50393 and DIN VDE 57291-2 (VDE0291).
Quick setting properties in humid or even cold conditions make it a fast and reliable solution.

No external measuring or mixing is required as this takes place within an Aluminium foil pouch, avoiding spillage and errors during installation.
Unmixed resin components have a 48 month shelf-life even in the most difficult storage conditions.

Shells are made of durable PET resulting in good hydrophobic properties and excellent impact resistance, while good adhesion to PVC and metals assures a watertight seal.

Technical characteristic	Test result	Requirement of DIN VDE 0291
Pot life @		
41°F (5°C)	35 min	
73.4°F (23°C)	20 min	product conforms ± 30%
95°F (35°C)	15 min	
Reactant open cup flash point	> 392°F (200°C)	> 55
Tensile strength	≥ 8.0 Mpa	≥ 5.0
Hot aging	- 5 Shore A	- 7
Adhesive	> 1500 CP. S	-
Elongation at break	≥ 100%	≥ 50%
Gel time for 300 ml @	73.4°F (23°C)	
Pouch >1000 ml	26 min	product conforms ± 10%
Pouch <1000 ml	17 min	product conforms ± 10%
Max. reaction temp.	140°F (60°C) / 333 K	product conforms ± 10%
Total vol. variability when hardening	6 %	max. 6.5 %
Cast resin component open cup flash point	> 392°F (200°C)	> 100
Density	1.07 g / cm3	-
Impact strength	> 10 kJ / m2	> 10 kJ / m2
Hardness	75 Shore A	min. 20 Shore D
Expansion coefficient in temp. range 68-122°F (20-50°C)	5.9 x 10-4 K-1	product conforms ± 15%
Thermal conductivity	0.2W x m-1 x K-1	product conforms ± 20%
Flammability	Class II c	acc. to DIN VDE 0304, part 3
Water absorption 42 days@122°F (50°C)	360 mg	max. 400 mg
Electrolytic corrosion	A1	-
Voltage test @		no breakdown @ test voltage
73.4°F (23°C)	> 20 kV	> 20 kV
176°F (80°C)	> 10 kV	> 20 kV
Dielectric dissipation factor @		
73.4°F (23°C) and 50 Hz	0.08	max. 0.1
73.4°F (23°C) and 1k Hz	0.05	-
Relative permittivity		
@ 73.4°F (23°C) and 50 Hz	5	< 6
@ 73.4°F (23°C) and 1k Hz	5.1	-
Tracking resistance	KA 3c	min KA 3c
After 28 days of immersion in 194°F (90°C) water		
Tensile strength	8.2N/mm^2	≥ 65% of initial value
Elongation at break	60%	≥ 65% of initial value
Hardness	47 Shore	≥ 80% of initial value

CABLE GLANDS AND ACCESSORIES

symbol description

cable glands and accessories

PA 6.6 — Polyamide PA6.6 body

PA 6 — Polyamide PA6 body

NEOPRENE — Neoprene material

PS — Polystyrene body

BRASS — Brass body

3µm NICKEL PLATED — Protected by Nikel plated to avoid oxidation

STAINLESS STEEL — Stainless steel body

STEEL ZINC PLATED — Galvanized Steel body

NBR — Nitrile-butadiene material

PVC — Polyvinylchloride material

EPDM — EPDM rubber material

ABS — ABS material

-4°F +194°F — Operating temperature range

IP68.5 — Degree of protection

V2 UL94 — V2 UL94 self-extinguishing class

VDE marking

ATEX marking

c UL us File no. E220310 — USL-CNL Marking valid in USA & CANADA

c US File no. E220310 — USR-CNR Marking valid in USA & CANADA

CE Marking

UKCA marking

EN 45545-2 — Meets the requirements for fire testing of materials and components for trains EN 45545-2:2015

HF HALOGEN FREE — Halogen Free

MAXIblock®

POLYAMIDE CABLE GLANDS
WITH PROTECTION IP 68

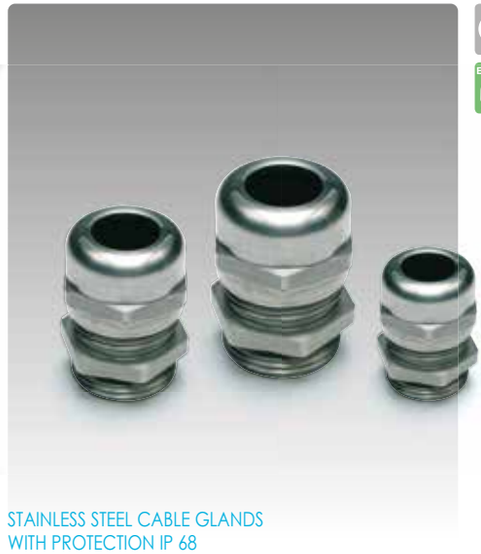
spiralblock®

POLYAMIDE CABLE GLANDS
WITH PROTECTION IP 68

MAXIbrass®

NICKEL PLATED BRASS CABLE GLANDS
WITH PROTECTION IP 68

MAXIinox



STAINLESS STEEL CABLE GLANDS
WITH PROTECTION IP 68

1900

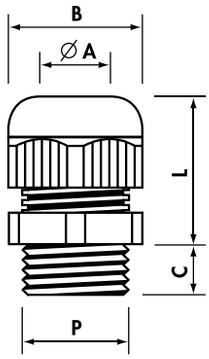
MAXIBLOCK CABLE GLANDS

Polyamide PA6.6

MAXIblock®

PA 6.6 · IP68 · V2 UL94 · -4°F +194°F · DVE · cULus File no. E220310 · cULus File no. E220310 · CE · UKCA · EN 45545-2

Material: POLYAMIDE PA6.6
self-extinguishing class V2 (UL 94)
Temperature range:
–4°F to +194°F (continuous)
Sealing ring: NEOPRENE®
Protection: IP 68
Color: RAL 7035 light grey,
RAL 9005 black, RAL 7001 dark grey



standard

Metric thread M 1.5 pitch CEI EN 60423 CEI EN 62444

Type Light Grey	P	Fixing Hole Ø in.	Ø A min-max in.	B Spanner in.	C in.	L min-max in.	Quantity
1900.M12	M12x1.5	0.48	0.14 - 0.28	0.59	0.31	0.71 - 0.87	100
1900.M16	M16x1.5	0.64	0.20 - 0.39	0.75	0.31	0.87 - 1.06	100
1900.M20	M20x1.5	0.81	0.28 - 0.51	0.98	0.35	0.94 - 1.18	100
1900.M25	M25x1.5	1.00	0.39 - 0.67	1.18	0.39	1.10 - 1.54	50
1900.M32	M32x1.5	1.28	0.51 - 0.83	1.42	0.39	1.30 - 1.73	25
1900.M40	M40x1.5	1.59	0.75 - 1.10	1.81	0.39	1.42 - 1.77	15
1900.M50	M50x1.5	1.99	1.06 - 1.38	2.17	0.47	1.69 - 2.05	10
1900.M63	M63x1.5	2.52	1.34 - 1.77	2.60	0.47	1.77 - 2.17	5

Add to Ref: N for Black, G for Dark Grey

reduced cable entry

Metric thread M 1.5 pitch CEI EN 60423 CEI EN 62444

Type Light Grey	P	Fixing Hole Ø in.	Ø A min-max in.	B Spanner in.	C in.	L min-max in.	Quantity
1910.M12	M12x1.5	0.48	0.08 - 0.20	0.59	0.31	0.71 - 0.87	100
1910.M16	M16x1.5	0.64	0.12 - 0.28	0.75	0.31	0.87 - 1.06	100
1910.M20	M20x1.5	0.81	0.20 - 0.39	0.98	0.35	0.94 - 1.18	100
1910.M25	M25x1.5	1.00	0.28 - 0.51	1.18	0.39	1.10 - 1.54	50
1910.M32	M32x1.5	1.28	0.31 - 0.55	1.42	0.39	1.30 - 1.73	25
1910.M40	M40x1.5	1.59	0.59 - 0.91	1.81	0.39	1.42 - 1.77	15
1910.M50	M50x1.5	1.99	0.79 - 1.14	2.17	0.47	1.69 - 2.05	10
1910.M63	M63x1.5	2.52	1.06 - 1.54	2.60	0.47	1.77 - 2.17	5

Add to Ref: N for Black, G for Dark Grey

extended thread

Metric thread M 1.5 pitch CEI EN 60423 CEI EN 62444

Type Light Grey	P	Fixing Hole Ø in.	Ø A min-max in.	B Spanner in.	C in.	L min-max in.	Quantity
1901.M12	M12x1.5	0.48	0.14 - 0.28	0.59	0.59	0.71 - 0.87	100
1901.M16	M16x1.5	0.64	0.20 - 0.39	0.75	0.59	0.87 - 1.06	100
1901.M20	M20x1.5	0.81	0.28 - 0.51	0.98	0.59	0.94 - 1.18	50
1901.M25	M25x1.5	1.00	0.39 - 0.67	1.18	0.59	1.18 - 1.61	50
1901.M32	M32x1.5	1.28	0.51 - 0.83	1.42	0.59	1.30 - 1.73	25
1901.M40	M40x1.5	1.59	0.75 - 1.10	1.81	0.71	1.42 - 1.77	15
1901.M50	M50x1.5	1.99	1.06 - 1.38	2.17	0.71	1.69 - 2.05	10
1901.M63	M63x1.5	2.52	1.34 - 1.77	2.60	0.71	1.77 - 2.17	5

Add to Ref: N for Black, G for Dark Grey

Technical data pages 319 to 322

MAXIBLOCK CABLE GLANDS

1900

Polyamide PA6.6

MAXIblock®

standard

Pg thread DIN 40 430

Type Light Grey	P	Fixing Hole Ø in.	Ø A min-max in.	B Spanner in.	C in.	L min-max in.	Quantity
1900.07	Pg 7	0.50	0.14 - 0.28	0.59	0.31	0.71 - 0.87	100
1900.09	Pg 9	0.61	0.20 - 0.31	0.75	0.31	0.87 - 1.02	100
1900.11	Pg11	0.74	0.20 - 0.39	0.87	0.31	0.91 - 1.10	100
1900.13	Pg13.5	0.81	0.28 - 0.47	0.94	0.35	0.94 - 1.14	100
1900.16	Pg16	0.89	0.39 - 0.55	1.06	0.39	1.02 - 1.22	50
1900.21	Pg21	1.12	0.51 - 0.71	1.30	0.47	1.18 - 1.38	50
1900.29	Pg29	1.46	0.71 - 0.98	1.65	0.47	1.30 - 1.54	25
1900.36	Pg36	1.86	0.79 - 1.26	2.09	0.55	1.65 - 1.93	10
1900.42	Pg42	2.13	1.10 - 1.50	2.36	0.55	1.65 - 1.97	5
1900.48	Pg48	2.36	1.46 - 1.77	2.60	0.59	1.77 - 2.17	5

Add to Ref: N for Black, G for Dark Grey

reduced cable entry

Pg thread DIN 40 430

Type Light Grey	P	Fixing Hole Ø in.	Ø A min-max in.	B Spanner in.	C in.	L min-max in.	Quantity
1910.07	Pg 7	0.50	0.08 - 0.20	0.59	0.31	0.71 - 0.87	100
1910.09♦	Pg 9	0.61	0.08 - 0.24	0.75	0.31	0.87 - 1.02	100
1910.11	Pg11	0.74	0.16 - 0.28	0.87	0.31	0.91 - 1.10	100
1910.13	Pg13.5	0.81	0.20 - 0.39	0.94	0.35	0.94 - 1.14	100
1910.16♦	Pg16	0.89	0.24 - 0.47	1.06	0.39	1.02 - 1.22	50
1910.21	Pg21	1.12	0.35 - 0.59	1.30	0.47	1.18 - 1.38	50
1910.29♦	Pg29	1.46	0.47 - 0.79	1.65	0.47	1.30 - 1.54	25
1910.36	Pg36	1.86	0.71 - 1.02	2.09	0.55	1.65 - 1.93	10
1910.42	Pg42	2.13	0.98 - 1.22	2.36	0.55	1.65 - 1.97	5
1910.48♦	Pg48	2.36	1.06 - 1.54	2.60	0.59	1.77 - 2.17	5

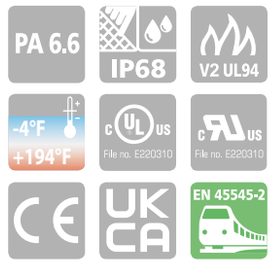
Add to Ref: N for Black

extended thread

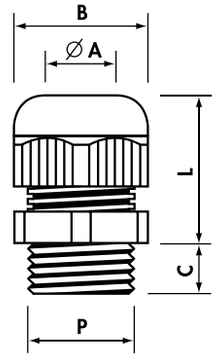
Pg thread DIN 40 430

Type Light Grey	P	Fixing Hole Ø in.	Ø A min-max in.	B Spanner in.	C in.	L min-max in.	Quantity
1901.07	Pg 7	0.50	0.14 - 0.28	0.59	0.59	0.71 - 0.87	100
1901.09	Pg 9	0.61	0.20 - 0.31	0.75	0.59	0.87 - 1.02	100
1901.11	Pg11	0.74	0.20 - 0.39	0.87	0.59	0.91 - 1.10	100
1901.13	Pg13.5	0.81	0.28 - 0.47	0.94	0.59	0.94 - 1.14	100
1901.16	Pg16	0.89	0.39 - 0.55	1.06	0.59	1.02 - 1.22	50
1901.21	Pg21	1.12	0.51 - 0.71	1.30	0.59	1.18 - 1.38	50
1901.29	Pg29	1.46	0.71 - 0.98	1.65	0.59	1.30 - 1.54	25
1901.36	Pg36	1.86	0.79 - 1.26	2.09	0.71	1.65 - 1.93	10
1901.42	Pg42	2.13	1.10 - 1.50	2.36	0.71	1.65 - 1.97	5
1901.48	Pg48	2.36	1.46 - 1.77	2.60	0.71	1.77 - 2.17	5

Add to Ref: N for Black



Material: POLYAMIDE PA6.6
self-extinguishing class V2 (UL 94)
Temperature range:
–4°F to +194°F (continuous)
Sealing ring: NEOPRENE® 50 sh A
Protection: IP 68
Color: RAL 7035 light grey,
RAL 9005 black, RAL 7001 dark grey



Technical data pages 319 to 322

CEMBRE

1900/X

MAXIBLOCK CABLE GLANDS

Polyamide PA6.6

MAXIblock®

PA 6.6 · IP68 · V2 UL94 · -4°F +194°F · VDE · cULus File no. E220310 · cULus File no. E220310 · CE · UKCA · EN 45545-2

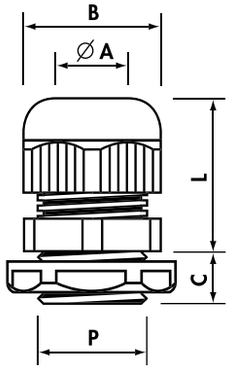
Material: POLYAMIDE PA6.6
self-extinguishing class V2 (UL 94)
Temperature range:
–4°F to +194°F (continuous)
Sealing ring: NEOPRENE®
Protection: IP 68
Color: RAL 7035 light grey

standard, factory fitted with locknuts with collar

Metric thread M 1.5 pitch CEI EN 60423 CEI EN 62444

Type	P	Fixing Hole Ø in.	Ø A min-max in.	B Spanner in.	C in.	L min-max in.	Quantity Box/Bag
1900.M12/X	M12x1.5	0.48	0.14 - 0.28	0.59	0.31	0.71 - 0.87	*100/10*
1900.M16/X	M16x1.5	0.64	0.20 - 0.39	0.75	0.31	0.87 - 1.06	*50/10*
1900.M20/X	M20x1.5	0.81	0.28 - 0.51	0.98	0.35	0.94 - 1.18	*50/10*
1900.M25/X	M25x1.5	1.00	0.39 - 0.67	1.18	0.39	1.10 - 1.54	*30/10*
1900.M32/X	M32x1.5	1.28	0.51 - 0.83	1.42	0.39	1.30 - 1.73	*20/10*
1900.M40/X	M40x1.5	1.59	0.75 - 1.10	1.81	0.39	1.42 - 1.77	*10/5*
1900.M50/X	M50x1.5	1.99	1.06 - 1.38	2.17	0.47	1.69 - 2.05	*5/5*
1900.M63/X	M63x1.5	2.52	1.34 - 1.77	2.60	0.47	1.77 - 2.17	*5/5*

PA 6.6 · IP68 · V2 UL94 · -20°C +90°C · cULus File no. E220310 · cULus File no. E220310 · CE · UKCA · EN 45545-2



standard, factory fitted with locknuts with collar

Pg thread DIN 40 430

Type	P	Fixing Hole Ø in.	Ø A min-max in.	B Spanner in.	C in.	L min-max in.	Quantity Box/Bag
1900.07/X	Pg 7	0.50	0.14 - 0.28	0.59	0.31	0.71 - 0.87	*100/10*
1900.09/X	Pg 9	0.61	0.20 - 0.31	0.75	0.31	0.87 - 1.02	*100/10*
1900.11/X	Pg11	0.74	0.20 - 0.39	0.87	0.31	0.91 - 1.10	*50/10*
1900.13/X	Pg13.5	0.81	0.28 - 0.47	0.94	0.35	0.94 - 1.14	*50/10*
1900.16/X	Pg16	0.89	0.39 - 0.55	1.06	0.39	1.02 - 1.22	*30/10*
1900.21/X	Pg21	1.12	0.51 - 0.71	1.30	0.47	1.18 - 1.38	*20/10*
1900.29/X	Pg29	1.46	0.71 - 0.98	1.65	0.47	1.30 - 1.54	*20/10*
1900.36/X	Pg36	1.86	0.79 - 1.26	2.09	0.55	1.65 - 1.93	*10/5*
1900.42/X	Pg42	2.13	1.10 - 1.50	2.36	0.55	1.65 - 1.97	*5/5*
1900.48/X	Pg48	2.36	1.46 - 1.77	2.60	0.59	1.77 - 2.17	*5/5*

Technical data pages 319 to 322

MAXIBLOCK CABLE GLANDS

1900DP

Polyamide PA6.6

MAXIblock®

standard, factory fitted with Polyethylene foam dustproof discs

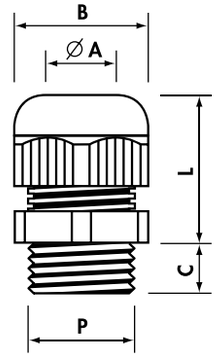
Metric thread M 1.5 pitch CEI EN 60423 CEI EN 62444

Type	P	Fixing Hole Ø in.	Ø A min-max in.	B Spanner in.	C in.	L min-max in.	Quantity Box/Bag
1900DP.M12	M12x1.5	0.48	0.14 - 0.28	0.59	0.31	0.71 - 0.87	*100*
1900DP.M16	M16x1.5	0.64	0.20 - 0.39	0.75	0.31	0.87 - 1.06	*100*
1900DP.M20	M20x1.5	0.81	0.28 - 0.51	0.98	0.35	0.94 - 1.18	*100*
1900DP.M25	M25x1.5	1.00	0.39 - 0.67	1.18	0.39	1.10 - 1.54	*50*
1900DP.M32	M32x1.5	1.28	0.51 - 0.83	1.42	0.39	1.30 - 1.73	*25*
1900DP.M40	M40x1.5	1.59	0.75 - 1.10	1.81	0.39	1.42 - 1.77	*15*
1900DP.M50	M50x1.5	1.99	1.06 - 1.38	2.17	0.47	1.69 - 2.05	*10*
1900DP.M63	M63x1.5	2.52	1.34 - 1.77	2.60	0.47	1.77 - 2.17	*5*

Pg thread DIN 40 430

Type	P	Fixing Hole Ø in.	Ø A min-max in.	B Spanner in.	C in.	L min-max in.	Quantity Box/Bag
1900DP.07	Pg 7	0.50	0.14 - 0.28	0.59	0.31	0.71 - 0.87	*100*
1900DP.09	Pg 9	0.61	0.20 - 0.31	0.75	0.31	0.87 - 1.02	*100*
1900DP.11	Pg11	0.74	0.20 - 0.39	0.87	0.31	0.91 - 1.10	*100*
1900DP.13	Pg13.5	0.81	0.28 - 0.47	0.94	0.35	0.94 - 1.14	*100*
1900DP.16	Pg16	0.89	0.39 - 0.55	1.06	0.39	1.02 - 1.22	*50*
1900DP.21	Pg21	1.12	0.51 - 0.71	1.30	0.47	1.18 - 1.38	*50*
1900DP.29	Pg29	1.46	0.71 - 0.98	1.65	0.47	1.30 - 1.54	*25*
1900DP.36	Pg36	1.86	0.79 - 1.26	2.09	0.55	1.65 - 1.93	*10*
1900DP.42	Pg42	2.13	1.10 - 1.50	2.36	0.55	1.65 - 1.97	*5*
1900DP.48	Pg48	2.36	1.46 - 1.77	2.60	0.59	1.77 - 2.17	*5*

Material: POLYAMIDE PA6.6
self-extinguishing class V2 (UL 94)
Temperature range:
–4°F to +194°F (continuous)
Sealing ring: NEOPRENE®
Protection: IP 68
Color: RAL 7035 light grey
Dustproof discs: 0.079 in. thick
Polyethylene foam



MAXIBLOCK CABLE GLANDS

1900

Polyamide PA6.6

BSP thread ISO 228/1

Type Light Grey	P	Fixing Hole Ø in.	Ø A min-max in.	B Spanner in.	C in.	L min-max in.	Quantity
1900.14	G1/4"	0.53	0.12 - 0.26	0.59	0.31	0.71 - 0.87	*100*
1900.38	G3/8"	0.67	0.16 - 0.31	0.75	0.31	0.87 - 1.02	*100*
1900.12	G1/2"	0.85	0.28 - 0.47	0.94	0.39	0.94 - 1.14	*100*
1900.34	G3/4"	1.06	0.51 - 0.71	1.30	0.47	1.18 - 1.38	*50*

Add to Ref: N for Black

Material: POLYAMIDE PA6.6
self-extinguishing class V2 (UL 94)
Temperature range:
–4°F to +194°F (continuous)
Sealing ring: NEOPRENE®
Protection: IP 68
Color: RAL 7035 light grey,
RAL 9005 black

Technical data pages 319 to 322

CEMBRE

1500

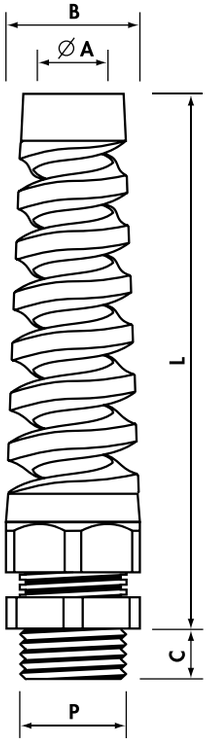
SPIRALBLOCK CABLE GLANDS

Polyamide PA6.6

spiralblock®

PA 6.6 | IP68 | V2 UL94 | -4°F +194°F | c UL us File no. E220310 | c UL us File no. E220310 | CE | UK CA | EN 45545-2

Material: POLYAMIDE PA6.6
self-extinguishing class V2 (UL 94)
Temperature range:
–4°F to +194°F (continuous)
Sealing ring: NEOPRENE® 50 sh A
Protection: IP 68
Color: RAL 7035 light grey,
RAL 9005 black



Metric thread M 1.5 pitch CEI EN 60423 CEI EN 62444

Type Light Grey	P	Fixing Hole Ø in.	Ø A min-max in.	B Spanner in.	C in.	L max in.	Quantity
1500.M12	M12x1.5	0.48	0.14 - 0.28	0.59	0.31	2.24	*100*
1500.M16	M16x1.5	0.64	0.20 - 0.39	0.75	0.31	3.11	*50*
1500.M20	M20x1.5	0.81	0.28 - 0.51	0.98	0.35	3.54	*25*
1500.M25	M25x1.5	1.00	0.39 - 0.67	1.18	0.39	4.72	*20*
1500.M32	M32x1.5	1.28	0.51 - 0.83	1.42	0.39	5.51	*10*

Add to Ref: N for Black

Pg thread DIN 40 430

Type Light Grey	P	Fixing Hole Ø in.	Ø A min-max in.	B Spanner in.	C in.	L max in.	Quantity
1500.07	Pg 7	0.50	0.14 - 0.28	0.59	0.31	2.24	*100*
1500.09	Pg 9	0.61	0.20 - 0.31	0.75	0.31	2.68	*100*
1500.11	Pg11	0.74	0.20 - 0.39	0.87	0.31	3.15	*50*
1500.13	Pg13.5	0.81	0.28 - 0.47	0.94	0.39	3.54	*50*
1500.16	Pg16	0.89	0.39 - 0.55	1.06	0.39	3.94	*25*
1500.21	Pg21	1.12	0.51 - 0.71	1.30	0.47	4.41	*20*

Add to Ref: N for Black

BSP thread ISO 228/1

Type Light Grey	P	Fixing Hole Ø in.	Ø A min-max in.	B Spanner in.	C in.	L max in.	Quantity
1500.14	G1/4″	0.53	0.12 - 0.26	0.59	0.31	2.24	*100*
1500.38	G3/8″	0.67	0.16 - 0.31	0.75	0.35	2.68	*100*
1500.12	G1/2″	0.85	0.28 - 0.47	0.94	0.39	3.54	*50*
1500.34	G3/4″	1.06	0.51 - 0.71	1.30	0.47	4.41	*20*

Add to Ref: N for Black

Technical data pages 319 to 322

MAXIBLOCK ATEX and UKEX CABLE GLANDS

4900

Polyamide PA6.6

MAXIblock®

Metric thread M 1.5 pitch CEI EN 60423 CEI EN 62444

Type Light Grey	P	Fixing Hole Ø in.	Ø A min-max in.	B Spanner in.	C in.	L min-max in.	Quantity
4900.M12	M12x1.5	0.48	0.14 - 0.26	0.59	0.31	0.71 - 0.87	100
4900.M16	M16x1.5	0.64	0.26 - 0.39	0.75	0.31	0.87 - 1.06	100
4900.M20	M20x1.5	0.81	0.35 - 0.51	0.98	0.35	0.94 - 1.18	100
4900.M25	M25x1.5	1.00	0.43 - 0.67	1.18	0.39	1.10 - 1.54	50
4900.M32	M32x1.5	1.28	0.63 - 0.83	1.42	0.39	1.30 - 1.73	25
4900.M40	M40x1.5	1.59	0.83 - 1.10	1.81	0.39	1.42 - 1.77	15
4900.M50	M50x1.5	1.99	1.06 - 1.38	2.17	0.47	1.69 - 2.05	10
4900.M63	M63x1.5	2.52	1.38 - 1.65	2.60	0.47	1.77 - 2.17	5

extended thread

Type Light Grey	P	Fixing Hole Ø in.	Ø A min-max in.	B Spanner in.	C in.	L min-max in.	Quantity
4901.M12	M12x1.5	0.48	0.14 - 0.26	0.59	0.59	0.71 - 0.87	100
4901.M16	M16x1.5	0.64	0.26 - 0.39	0.75	0.59	0.87 - 1.06	100
4901.M20	M20x1.5	0.81	0.35 - 0.51	0.98	0.59	0.94 - 1.18	50
4901.M25	M25x1.5	1.00	0.43 - 0.67	1.18	0.59	1.18 - 1.61	50
4901.M32	M32x1.5	1.28	0.63 - 0.83	1.42	0.59	1.30 - 1.73	25
4901.M40	M40x1.5	1.59	0.83 - 1.10	1.81	0.71	1.42 - 1.77	15
4901.M50	M50x1.5	1.99	1.06 - 1.38	2.17	0.71	1.69 - 2.05	10
4901.M63	M63x1.5	2.52	1.38 - 1.65	2.60	0.71	1.77 - 2.17	5

Pg thread DIN 40 430

Type Light Grey	P	Fixing Hole Ø in.	Ø A min-max in.	B Spanner in.	C in.	L min-max in.	Quantity
4900.07	Pg 7	0.50	0.14 - 0.26	0.59	0.31	0.71 - 0.87	100
4900.09	Pg 9	0.61	0.26 - 0.31	0.75	0.31	0.87 - 1.02	100
4900.11	Pg11	0.74	0.31 - 0.39	0.87	0.31	0.91 - 1.10	100
4900.13	Pg13.5	0.81	0.35 - 0.47	0.94	0.35	0.94 - 1.14	100
4900.16	Pg16	0.89	0.39 - 0.55	1.06	0.39	1.02 - 1.22	50
4900.21	Pg21	1.12	0.55 - 0.71	1.30	0.47	1.18 - 1.38	50
4900.29	Pg29	1.46	0.71 - 0.87	1.65	0.47	1.30 - 1.54	25
4900.36	Pg36	1.86	0.87 - 1.26	2.09	0.55	1.65 - 1.93	10
4900.42	Pg42	2.13	1.10 - 1.50	2.36	0.55	1.65 - 1.97	5
4900.48	Pg48	2.36	1.50 - 1.77	2.60	0.59	1.77 - 2.17	5

extended thread

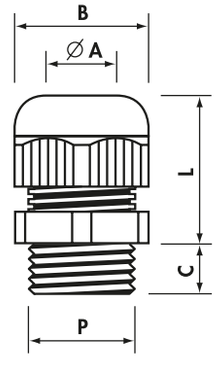
Type Light Grey	P	Fixing Hole Ø in.	Ø A min-max in.	B Spanner in.	C in.	L min-max in.	Quantity
4901.07	Pg 7	0.50	0.14 - 0.26	0.59	0.59	0.71 - 0.87	100
4901.09	Pg 9	0.61	0.26 - 0.31	0.75	0.59	0.87 - 1.02	100
4901.11	Pg11	0.74	0.31 - 0.39	0.87	0.59	0.91 - 1.10	100
4901.13	Pg13.5	0.81	0.35 - 0.47	0.94	0.59	0.94 - 1.14	100
4901.16	Pg16	0.89	0.39 - 0.55	1.06	0.59	1.02 - 1.22	50
4901.21	Pg21	1.12	0.55 - 0.71	1.30	0.59	1.18 - 1.38	50
4901.29	Pg29	1.46	0.71 - 0.87	1.65	0.59	1.30 - 1.54	25
4901.36	Pg36	1.86	0.87 - 1.26	2.09	0.71	1.65 - 1.93	10
4901.42	Pg42	2.13	1.10 - 1.50	2.36	0.71	1.65 - 1.97	5
4901.48	Pg48	2.36	1.50 - 1.77	2.60	0.71	1.77 - 2.17	5

UK CA 0891 CE 0051 Ex II 2 GD

Certificate No IMQ 10 ATEX 028 X
Certificate No EMA 21 UKEX 0084 X

PA 6.6 | IP65 | V2 UL94 | -4°F +167°F | Ex | CE | UK CA | EN 45545-2

Material: POLYAMIDE PA6.6
self-extinguishing class V2 (UL 94)
Safety level:
Ex eb IIC Gb/Ex tb IIIC Db
according to:
EN 60079-0
EN 60079-7
EN 60079-7/A1
EN 60079-31
Areas of utilisation: 1 & 2, 21 & 22
Temperature range:
–4°F to +167°F (continuous)
Sealing ring: NEOPRENE®
Protection: IP 65
Color: RAL 7035 light grey



Technical data pages 319 to 322

CEMBRE

1700
1400

COMPRESSION CABLE GLANDS

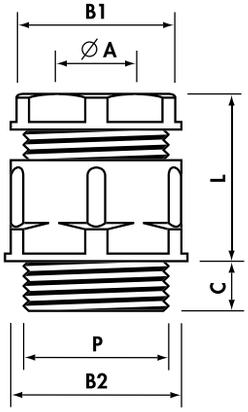
Polyamide PA6

PA 6 V0 UL94

PA 6.6 V2 UL94 **

IP54 -4°F +194°F

Material: POLYAMIDE PA6 / PA6.6**
self-extinguishing class V0 / V2** (UL 94)
Temperature range:
–4°F to +194°F (continuous)
Sealing ring: PVC 50 sh A
Protection: IP 54
Color: RAL 7035 light grey,
RAL 9005 black



Pg thread DIN 40 430 - Dimensions DIN 46 320

Type Light Grey	P	Fixing Hole Ø in.	Ø A min-max in.	B1 Spanner Head in.	B2 Spanner Body in.	C in.	L min-max in.	Quantity Box/Bag
1709	Pg 7	0.50	0.22 - 0.28	0.59	0.63	0.31	0.63 - 0.79	*300/100*
***1700**	Pg 9	0.61	0.26 - 0.33	0.67	0.79	0.31	0.75 - 0.87	*200/100*
***1701**	Pg11	0.74	0.31 - 0.39	0.75	0.87	0.31	0.83 - 0.98	*100/100*
1702*	Pg13.5	0.81	0.31 - 0.43	0.83	0.94	0.35	0.87 - 1.02	*100/100*
1703	Pg16	0.89	0.43 - 0.55	0.91	1.06	0.39	0.94 - 1.30	*50/50*
1704	Pg21	1.12	0.57 - 0.71	1.18	1.30	0.43	0.98 - 1.26	*50/25*
1705	Pg29	1.46	0.75 - 1.02	1.57	1.65	0.43	1.06 - 1.26	*20/10*
1706	Pg36	1.86	1.18 - 1.34	1.97	2.09	0.55	1.30 - 1.65	*10/10*
1707	Pg42	2.13	1.18 - 1.50	2.17	2.36	0.51	1.46 - 1.89	*5/5*
1708	Pg48	2.36	1.50 - 1.73	2.36	2.56	0.57	1.46 - 1.89	*5/5*

***Add to Ref: N for Black**

BSP thread ISO 228/1

Type Light Grey	P	Fixing Hole Ø in.	Ø A min-max in.	B1 Spanner Head in.	B2 Spanner Body in.	C in.	L min-max in.	Quantity Box/Bag
1400	G1/4"	0.53	0.22 - 0.28	0.59	0.63	0.31	0.63 - 0.79	*300/100*
***1401**	G3/8"	0.67	0.26 - 0.33	0.67	0.79	0.31	0.75 - 0.87	*200/100*
***1401B**	G3/8"	0.67	0.31 - 0.39	0.75	0.87	0.31	0.71 - 0.94	*100/100*
1402*	G1/2"	0.85	0.31 - 0.43	0.83	0.94	0.35	0.87 - 1.02	*100/100*
1403	G5/8"	0.93	0.43 - 0.55	0.91	1.06	0.39	0.94 - 1.30	*50/50*
1404	G3/4"	1.06	0.57 - 0.71	1.18	1.30	0.43	0.98 - 1.26	*50/25*
1405	G1"	1.34	0.67 - 0.87	1.34	1.50	0.45	1.06 - 1.38	*20/10*
1407	G1"1/2	1.89	1.18 - 1.34	1.97	2.09	0.55	1.30 - 1.65	*10/10*
1408	G2"	2.36	1.50 - 1.73	2.36	2.56	0.57	1.46 - 1.89	*5/5*

***Add to Ref: N for Black**

Metric thread M 1.5 pitch CEI EN 60423

Type Light Grey	P	Fixing Hole Ø in.	Ø A min-max in.	B1 Spanner Head in.	B2 Spanner Body in.	C in.	L min-max in.	Quantity
1730M20**	M20x1.5	0.81	0.31 - 0.43	0.83	0.94	0.35	0.87 - 1.02	*100*

Add to Ref: N for Black

COMPRESSION CABLE GLANDS

Polyamide PA6

1700T

special Internal blanking disc: PVC 50 sh

Pg thread DIN 40 430 - Dimensions DIN 46 320

Type Light Grey	P	Fixing Hole Ø in.	Ø A min-max in.	B1 Spanner Head in.	B2 Spanner Body in.	C in.	L min-max in.	Quantity Box/Bag
*1700T	Pg 9	0.61	0.26 - 0.33	0.67	0.79	0.31	0.75 - 0.87	200/100
*1701T	Pg11	0.74	0.31 - 0.39	0.75	0.87	0.31	0.83 - 0.98	100/100
1702T**	Pg13.5	0.81	0.31 - 0.43	0.83	0.94	0.35	0.87 - 1.02	100/100

***Add to Ref: N for Black**

PA 6 V0 UL94

PA 6.6 V2 UL94 **

IP54 -4°F +194°F

Material: POLYAMIDE PA6 / PA6.6**
self-extinguishing class V0 / V2** (UL 94)
Temperature range:
–4°F to +194°F (continuous)
Protection: IP 54
Color: RAL 7035 light grey,
RAL 9005 black

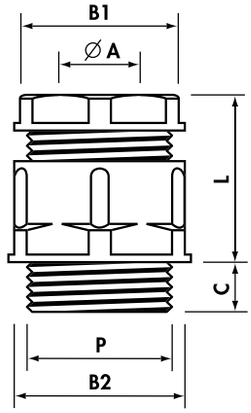
reduced cable entry

Sealing ring: CHLOROPRENE, concentric, multi-sector

Pg thread DIN 40 430 - Dimensions DIN 46 320

Type Light Grey	P	Fixing Hole Ø in.	Ø A min-max in.	B1 Spanner Head in.	B2 Spanner Body in.	C in.	L min-max in.	Quantity
1702CONC**	Pg13.5	0.81	0.22 - 0.51	0.83	0.94	0.35	0.87 - 1.02	100

Add to Ref: N for Black



POLYSTYRENE CABLE GLANDS

Polystyrene PS

1700P

Sealing ring: PVC 50 sh A - Protection: IP 54

Pg thread DIN 40 430 - Dimensions DIN 46 320

Type Light Grey	P	Fixing Hole Ø in.	Ø A min-max in.	B1 Spanner Head in.	B2 Spanner Body in.	C in.	L min-max in.	Quantity Box/Bag
1700P	Pg9	0.61	0.28 - 0.33	0.67	0.79	0.31	0.75 - 0.87	200/100
*1701P	Pg11	0.74	0.31 - 0.39	0.75	0.87	0.31	0.83 - 0.98	100/100
*1702P	Pg13.5	0.81	0.31 - 0.43	0.83	0.94	0.35	0.87 - 1.02	100/100
1703P	Pg16	0.89	0.43 - 0.55	0.91	1.06	0.39	0.94 - 1.30	50/50
1704P	Pg21	1.12	0.57 - 0.71	1.18	1.30	0.43	0.98 - 1.26	50/25

***Add to Ref: N for Black**

PS -4°F +140°F

Material: POLYSTYRENE PS
Temperature range:
–4°F to +140°F (continuous)
Color: RAL 7035 light grey,
RAL 9005 black

CEMBRE

2900

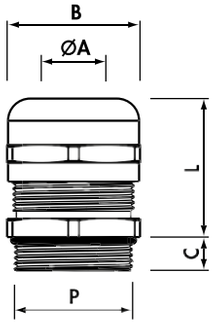
MAXIBRASS CABLE GLANDS

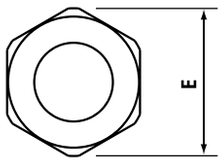
Nickel Plated Brass

MAXIbrass®

BRASS | 3µm NICKEL PLATED | IP68 | -13°F +212°F | DVE | cULus File no. E220310 | cULus File no. E220310 | CE | UKCA | EN 45545-2

Material: NICKEL PLATED BRASS (CuZn 40 Pb 3)
Sealing-ring: NEOPRENE®
Cable grip insert: POLYAMIDE PA6.6
O-Ring: NITRILE 70 sh A (factory fitted)
Protection: IP 68
Temperature range:
-13°F to +212°F (continuous)





standard

Metric thread M 1.5 pitch CEI EN 60423 CEI EN 62444

Type Nickel Plated Brass	P	Fixing Hole Ø in.	Ø A min-max in.	B Spanner in.	E in.	C in.	L min-max in.	Quantity
2900.M12N	M12x1.5	0.48	0.12 - 0.28	0.63	0.71	0.26	0.63 - 0.79	*100*
2900.M16N	M16x1.5	0.64	0.18 - 0.39	0.79	0.91	0.28	0.79 - 0.98	*100*
2900.M20N	M20x1.5	0.81	0.28 - 0.51	0.94	1.06	0.31	0.79 - 1.06	*50*
2900.M25N	M25x1.5	1.00	0.39 - 0.67	1.14	1.26	0.31	0.94 - 1.18	*50*
2900.M32N	M32x1.5	1.28	0.43 - 0.83	1.42	1.54	0.35	1.06 - 1.34	*25*
2900.M40N	M40x1.5	1.59	0.75 - 1.10	1.77	1.97	0.35	1.34 - 1.65	*10*
2900.M50N	M50x1.5	1.99	1.02 - 1.38	2.13	2.36	0.39	1.38 - 1.69	*8*
2900.M63N	M63x1.5	2.52	1.34 - 1.77	2.64	2.87	0.59	1.57 - 2.05	*5*

reduced cable entry

Metric thread M 1.5 pitch CEI EN 60423 CEI EN 62444

Type Nickel Plated Brass	P	Fixing Hole Ø in.	Ø A min-max in.	B Spanner in.	E in.	C in.	L min-max in.	Quantity
2910.M12N	M12x1.5	0.48	0.04 - 0.20	0.63	0.71	0.26	0.63 - 0.79	*100*
2910.M16N	M16x1.5	0.64	0.10 - 0.28	0.79	0.91	0.28	0.79 - 0.98	*100*
2910.M20N	M20x1.5	0.81	0.20 - 0.39	0.94	1.06	0.31	0.79 - 1.06	*50*
2910.M25N	M25x1.5	1.00	0.24 - 0.51	1.14	1.26	0.31	0.94 - 1.18	*50*
2910.M32N	M32x1.5	1.28	0.28 - 0.55	1.42	1.54	0.35	1.06 - 1.34	*25*
2910.M40N	M40x1.5	1.59	0.51 - 0.91	1.77	1.97	0.35	1.34 - 1.65	*10*
2910.M50N	M50x1.5	1.99	0.79 - 1.14	2.13	2.36	0.39	1.38 - 1.69	*8*
2910.M63N	M63x1.5	2.52	1.06 - 1.54	2.64	2.87	0.59	1.57 - 2.05	*5*

Technical data pages 319 to 322

MAXI*brass*®

BRASS | 3µm NICKEL PLATED | IP68 | -13°F +212°F | VDE | cULus File no. E220310 | cULus File no. E220310 | CE | UKCA | EN 45545-2

extended thread

Metric thread M 1.5 pitch CEI EN 60423 CEI EN 62444

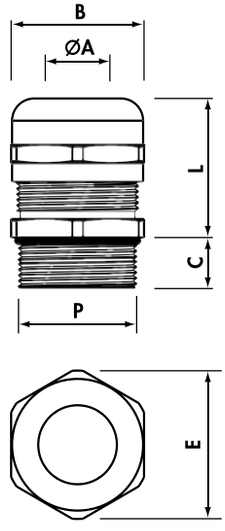
Type Nickel Plated Brass	P	Fixing Hole Ø in.	Ø A min-max in.	B Spanner in.	E in.	C in.	L min-max in.	Quantity
2901.M12N	M12x1.5	0.48	0.12 - 0.28	0.63	0.71	0.47	0.63 - 0.79	*100*
2901.M16N	M16x1.5	0.64	0.18 - 0.39	0.79	0.91	0.47	0.79 - 0.98	*100*
2901.M20N	M20x1.5	0.81	0.28 - 0.51	0.94	1.06	0.47	0.79 - 1.06	*50*
2901.M25N	M25x1.5	1.00	0.39 - 0.67	1.14	1.26	0.47	0.94 - 1.18	*50*
2901.M32N	M32x1.5	1.28	0.43 - 0.83	1.42	1.54	0.59	1.06 - 1.34	*25*
2901.M40N	M40x1.5	1.59	0.75 - 1.10	1.77	1.97	0.59	1.34 - 1.65	*10*
2901.M50N	M50x1.5	1.99	1.02 - 1.38	2.13	2.36	0.59	1.38 - 1.69	*8*

Material: NICKEL PLATED BRASS (CuZn 40 Pb 3)
Sealing-ring: NEOPRENE®
Cable grip insert: POLYAMIDE PA6.6
O-Ring: NITRILE 70 sh A (factory fitted)
Protection: IP 68
Temperature range:
-13°F to +212°F (continuous)

extended thread and reduced cable entry

Metric thread M 1.5 pitch CEI EN 60423 CEI EN 62444

Type Nickel Plated Brass	P	Fixing Hole Ø in.	Ø A min-max in.	B Spanner in.	E in.	C in.	L min-max in.	Quantity
2911.M12N	M12x1.5	0.48	0.04 - 0.20	0.63	0.71	0.47	0.63 - 0.79	*100*
2911.M16N	M16x1.5	0.64	0.10 - 0.28	0.79	0.91	0.47	0.79 - 0.98	*100*
2911.M20N	M20x1.5	0.81	0.20 - 0.39	0.94	1.06	0.47	0.79 - 1.06	*50*
2911.M25N	M25x1.5	1.00	0.24 - 0.51	1.14	1.26	0.47	0.94 - 1.18	*50*
2911.M32N	M32x1.5	1.28	0.28 - 0.55	1.42	1.54	0.59	1.06 - 1.34	*25*
2911.M40N	M40x1.5	1.59	0.51 - 0.91	1.77	1.97	0.59	1.34 - 1.65	*10*
2911.M50N	M50x1.5	1.99	0.79 - 1.14	2.13	2.36	0.59	1.38 - 1.69	*8*



Technical data pages 319 to 322

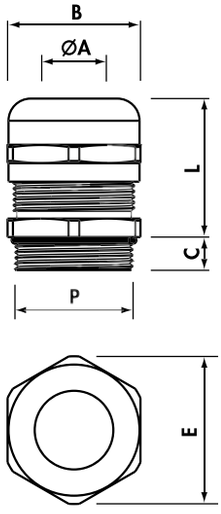
2900

MAXIBRASS CABLE GLANDS

Nickel Plated Brass

MAXIbrass®

Material: NICKEL PLATED BRASS (CuZn 40 Pb 3)
Sealing-ring: NEOPRENE®
Cable grip insert: POLYAMIDE PA6.6
O-Ring: NITRILE 70 sh A (factory fitted)
Protection: IP 68
Temperature range:
-13°F to +212°F (continuous)



standard

Pg thread DIN 40 430

Type Nickel Plated Brass	P	Fixing Hole Ø in.	Ø A min-max in.	B Spanner in.	E in.	C in.	L min-max in.	Quantity
2900.07N	Pg 7	0.50	0.12 - 0.28	0.63	0.71	0.20	0.63 - 0.79	100
2900.09N	Pg 9	0.61	0.16 - 0.31	0.67	0.75	0.24	0.67 - 0.91	100
2900.11N	Pg11	0.74	0.18 - 0.39	0.79	0.91	0.24	0.79 - 0.98	100
2900.13N	Pg13.5	0.81	0.20 - 0.47	0.87	0.98	0.26	0.79 - 1.02	50
2900.16N	Pg16	0.89	0.28 - 0.51	0.94	1.06	0.26	0.79 - 1.06	50
2900.21N	Pg21	1.12	0.39 - 0.67	1.18	1.30	0.28	0.94 - 1.18	50
2900.29N	Pg29	1.46	0.67 - 0.98	1.57	1.69	0.31	1.18 - 1.46	25
2900.36N	Pg36	1.86	0.79 - 1.26	1.97	2.13	0.31	1.50 - 1.89	10
2900.42N	Pg42	2.13	1.10 - 1.50	2.24	2.48	0.39	1.54 - 1.89	5
2900.48N	Pg48	2.36	1.34 - 1.77	2.64	2.87	0.59	1.57 - 2.05	5

reduced cable entry

Pg thread DIN 40 430

Type Nickel Plated Brass	P	Fixing Hole Ø in.	Ø A min-max in.	B Spanner in.	E in.	C in.	L min-max in.	Quantity
2910.07N	Pg 7	0.50	0.04 - 0.20	0.63	0.71	0.20	0.63 - 0.79	100
2910.09N	Pg 9	0.61	0.08 - 0.24	0.67	0.75	0.24	0.67 - 0.91	100
2910.11N	Pg11	0.74	0.10 - 0.28	0.79	0.91	0.24	0.79 - 0.98	100
2910.13N	Pg13.5	0.81	0.16 - 0.39	0.87	0.98	0.26	0.79 - 1.02	50
2910.16N	Pg16	0.89	0.20 - 0.39	0.94	1.06	0.26	0.79 - 1.06	50
2910.21N	Pg21	1.12	0.24 - 0.51	1.18	1.30	0.28	0.94 - 1.18	50
2910.29N	Pg29	1.46	0.43 - 0.79	1.57	1.69	0.31	1.18 - 1.46	25
2910.36N	Pg36	1.86	0.71 - 1.02	1.97	2.13	0.31	1.50 - 1.89	10
2910.42N	Pg42	2.13	0.94 - 1.22	2.24	2.48	0.39	1.54 - 1.89	5
2910.48N	Pg48	2.36	1.06 - 1.54	2.64	2.87	0.59	1.57 - 2.05	5

extended thread

Pg thread DIN 40 430

Type Nickel Plated Brass	P	Fixing Hole Ø in.	Ø A min-max in.	B Spanner in.	E in.	C in.	L min-max in.	Quantity
2901.07N	Pg 7	0.50	0.12 - 0.28	0.63	0.71	0.47	0.63 - 0.79	100
2901.09N	Pg 9	0.61	0.16 - 0.31	0.67	0.75	0.47	0.67 - 0.91	100
2901.11N	Pg11	0.74	0.18 - 0.39	0.79	0.91	0.47	0.79 - 0.98	100
2901.13N	Pg13.5	0.81	0.20 - 0.47	0.87	0.98	0.47	0.79 - 1.02	50
2901.16N	Pg16	0.89	0.28 - 0.51	0.94	1.06	0.47	0.79 - 1.06	50
2901.21N	Pg21	1.12	0.39 - 0.67	1.18	1.30	0.47	0.94 - 1.18	50
2901.29N	Pg29	1.46	0.67 - 0.98	1.57	1.69	0.59	1.18 - 1.46	25
2901.36N	Pg36	1.86	0.79 - 1.26	1.97	2.13	0.59	1.50 - 1.89	10
2901.42N	Pg42	2.13	1.10 - 1.50	2.24	2.48	0.59	1.54 - 1.89	5

Technical data pages 319 to 322

MAXIBRASS CABLE GLANDS

2900

Nickel Plated Brass

MAXI*brass*®

extended thread and reduced cable entry

Pg thread DIN 40 430

Type Nickel Plated Brass	P	Fixing Hole Ø in.	Ø A min-max in.	B Spanner in.	E in.	C in.	L min-max in.	Quantity
2911.07N	Pg 7	0.50	0.04 - 0.20	0.63	0.71	0.47	0.63 - 0.79	*100*
2911.09N	Pg 9	0.61	0.08 - 0.24	0.67	0.75	0.47	0.67 - 0.91	*100*
2911.11N	Pg11	0.74	0.10 - 0.28	0.79	0.91	0.47	0.79 - 0.98	*100*
2911.13N	Pg13.5	0.81	0.16 - 0.39	0.87	0.98	0.47	0.79 - 1.02	*50*
2911.16N	Pg16	0.89	0.20 - 0.39	0.94	1.06	0.47	0.79 - 1.06	*100*
2911.21N	Pg21	1.12	0.24 - 0.51	1.18	1.30	0.47	0.94 - 1.18	*50*
2911.29N	Pg29	1.46	0.43 - 0.79	1.57	1.69	0.59	1.18 - 1.46	*25*
2911.36N	Pg36	1.86	0.71 - 1.02	1.97	2.13	0.59	1.50 - 1.89	*10*
2911.42N	Pg42	2.13	0.94 - 1.22	2.24	2.48	0.59	1.54 - 1.89	*5*

MAXIBRASS CABLE GLANDS

2900DP

Nickel Plated Brass

standard, factory fitted with Polyethylene foam dustproof discs

Metric thread M 1.5 pitch CEI EN 60423 CEI EN 62444

Type Nickel Plated Brass	P	Fixing Hole Ø in.	Ø A min-max in.	B Spanner in.	E in.	C in.	L min-max in.	Quantity
2900DP.M12N	M12x1.5	0.48	0.12 - 0.28	0.63	0.71	0.26	0.63 - 0.79	*100*
2900DP.M16N	M16x1.5	0.64	0.18 - 0.39	0.79	0.91	0.28	0.79 - 0.98	*100*
2900DP.M20N	M20x1.5	0.81	0.28 - 0.51	0.94	1.06	0.31	0.79 - 1.06	*50*
2900DP.M25N	M25x1.5	1.00	0.39 - 0.67	1.14	1.26	0.31	0.94 - 1.18	*50*
2900DP.M32N	M32x1.5	1.28	0.43 - 0.83	1.42	1.54	0.35	1.06 - 1.34	*25*
2900DP.M40N	M40x1.5	1.59	0.75 - 1.10	1.77	1.97	0.35	1.34 - 1.65	*10*
2900DP.M50N	M50x1.5	1.99	1.02 - 1.38	2.13	2.36	0.39	1.38 - 1.69	*8*
2900DP.M63N	M63x1.5	2.52	1.34 - 1.77	2.64	2.87	0.59	1.57 - 2.05	*5*

Pg thread DIN 40 430

Type Nickel Plated Brass	P	Fixing Hole Ø in.	Ø A min-max in.	B Spanner in.	E in.	C in.	L min-max in.	Quantity
2900DP.07N	Pg 7	0.50	0.12 - 0.28	0.63	0.71	0.20	0.63 - 0.79	*100*
2900DP.09N	Pg 9	0.61	0.16 - 0.31	0.67	0.75	0.24	0.67 - 0.91	*100*
2900DP.11N	Pg11	0.74	0.18 - 0.39	0.79	0.91	0.24	0.79 - 0.98	*100*
2900DP.13N	Pg13.5	0.81	0.20 - 0.47	0.87	0.98	0.26	0.79 - 1.02	*50*
2900DP.16N	Pg16	0.89	0.28 - 0.51	0.94	1.06	0.26	0.79 - 1.06	*50*
2900DP.21N	Pg21	1.12	0.39 - 0.67	1.18	1.30	0.28	0.94 - 1.18	*50*
2900DP.29N	Pg29	1.46	0.67 - 0.98	1.57	1.69	0.31	1.18 - 1.46	*25*
2900DP.36N	Pg36	1.86	0.79 - 1.26	1.97	2.13	0.31	1.50 - 1.89	*10*
2900DP.42N	Pg42	2.13	1.10 - 1.50	2.24	2.48	0.39	1.54 - 1.89	*5*
2900DP.48N	Pg48	2.36	1.34 - 1.77	2.64	2.87	0.59	1.57 - 2.05	*5*

Material: NICKEL PLATED BRASS (CuZn 40 Pb 3)
Sealing-ring: NEOPRENE®
Cable grip insert: POLYAMIDE PA6.6
O-Ring: NITRILE 70 sh A (factory fitted)
Protection: IP 68
Dustproof discs: 0.079 in. thick Polyethylene foam
Temperature range:
-13°F to +212°F (continuous)

Technical data pages 319 to 322

CEMBRE

5900

MAXIBRASS ATEX and UKEX CABLE GLANDS

Nickel Plated Brass

UKCA 0891 CE 0051 Ex II 2 GD

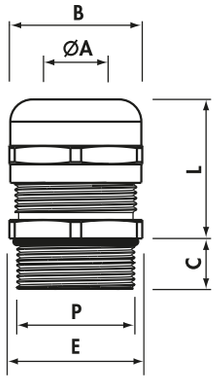
Certificate No IMQ 10 ATEX 028 X
Certificate No EMA 21 UKEX 0084 X

Safety level: Ex eb IIC Gb/Ex tb IIIC Db
according to: EN 60079-0
EN 60079-7
EN 60079-7/A1; EN 60079-31
Areas of utilisation: 1 & 2, 21 & 22

MAXIbrass®

BRASS | 3µm NICKEL PLATED | IP65 | -13°F +167°F | Ex | CE | UKCA | EN 45545-2

Material: NICKEL PLATED BRASS
Sealing-ring: NEOPRENE®
Cable grip insert: POLYAMIDE PA6.6
O-Ring: NITRILE 70 sh A (factory fitted)
Temperature range:
-13°F to +167°F (continuous)
Protection: IP 65



Metric thread M 1.5 pitch CEI EN 60423 CEI EN 62444

Type Nickel Plated Brass	P	Fixing Hole Ø in.	Ø A min-max in.	B Spanner in.	E in.	C in.	L min-max in.	Quantity
5900.M12N	M12x1.5	0.48	0.12 - 0.26	0.63	0.71	0.26	0.63 - 0.79	100
5900.M16N	M16x1.5	0.64	0.26 - 0.39	0.79	0.91	0.28	0.79 - 0.98	100
5900.M20N	M20x1.5	0.81	0.39 - 0.51	0.94	1.06	0.31	0.79 - 1.06	50
5900.M25N	M25x1.5	1.00	0.43 - 0.67	1.14	1.26	0.31	0.94 - 1.18	50
5900.M32N	M32x1.5	1.28	0.55 - 0.83	1.42	1.54	0.35	1.06 - 1.34	25
5900.M40N	M40x1.5	1.59	0.83 - 1.06	1.77	1.97	0.35	1.34 - 1.65	10
5900.M50N	M50x1.5	1.99	1.02 - 1.38	2.13	2.36	0.39	1.38 - 1.69	8
5900.M63N	M63x1.5	2.52	1.38 - 1.65	2.64	2.87	0.59	1.57 - 2.05	5

extended thread

Type Nickel Plated Brass	P	Fixing Hole Ø in.	Ø A min-max in.	B Spanner in.	E in.	C in.	L min-max in.	Quantity
5901.M12N	M12x1.5	0.48	0.12 - 0.26	0.63	0.71	0.47	0.63 - 0.79	100
5901.M16N	M16x1.5	0.64	0.26 - 0.39	0.79	0.91	0.47	0.79 - 0.98	100
5901.M20N	M20x1.5	0.81	0.39 - 0.51	0.94	1.06	0.47	0.79 - 1.06	50
5901.M25N	M25x1.5	1.00	0.43 - 0.67	1.14	1.26	0.47	0.94 - 1.18	50
5901.M32N	M32x1.5	1.28	0.55 - 0.83	1.42	1.54	0.47	1.06 - 1.34	25
5901.M40N	M40x1.5	1.59	0.83 - 1.06	1.77	1.97	0.47	1.34 - 1.65	10
5901.M50N	M50x1.5	1.99	1.02 - 1.38	2.13	2.36	0.47	1.38 - 1.69	8

20M3

EMC CABLE GLANDS

Nickel Plated Brass

BRASS | 3µm NICKEL PLATED | IP68.5 | -22°F +248°F | CE | UKCA

Material: NICKEL PLATED BRASS
(CuZn 40 Pb 3)
Sealing-ring: Chloroprene (CR)
Cable grip insert: PA6.6
O-Ring: (NBR) (factory fitted)
Protection: IP 68,5
Temperature range:
-22°F to +248°F(continuous)

Metric thread M 1.5 pitch CEI EN 60423 CEI EN 62444

Type Nickel Plated Brass	P	Fixing Hole Ø in.	Ø A min-max in.	B Spanner in.	C in.	L max in.	Quantity Box/Bag
20M3M1261N	M12x1.5	0.48	0.12 - 0.26	0.55	0.20	0.87	300/100
20M3M1661N	M16x1.5	0.64	0.22 - 0.39	0.67	0.22	0.96	200/100
20M3M2061N	M20x1.5	0.81	0.31 - 0.51	0.87	0.24	1.06	100/50
20M3M2561N	M25x1.5	1.00	0.43 - 0.71	1.18	0.28	1.22	50/25
20M3M3261N	M32x1.5	1.28	0.59 - 0.83	1.34	0.31	1.30	30/10
20M3M4061N	M40x1.5	1.59	0.75 - 1.06	1.73	0.31	1.57	20/10
20M3M5061N	M50x1.5	1.99	1.02 - 1.38	2.17	0.35	1.89	10/5
20M3M6361N	M63x1.5	2.52	1.54 - 1.89	2.60	0.39	1.97	5/5

EMC Cable glands and locknuts are designed to work together in electrical or electronic applications where a metallic cable shielding must be equipotential with a metallic enclosure, in accordance with the EMC directive.
Offering IP68 ingress protection at 5 bar pressure, EMC Cable glands will maintain shielding from electromagnetic disturbance in undergound applications.
EMC locknuts have serrated teeth to maintain electrical contact through paint or surface coatings, a feature which also enhances vibration resistance.

COMPRESSION CABLE GLANDS

Nickel Plated Brass

2003
2002
2001

BRASS | 3µm NICKEL PLATED | IP54 | -13°F +212°F

Material: NICKEL PLATED BRASS (CuZn 40 Pb 3)
Protection: IP 54

Sealing ring: RUBBER 55sh A

Metric thread M 1.5 pitch CEI EN 60423 CEI EN 62444

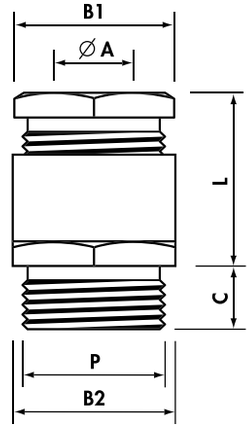
Type Nickel Plated Brass	P	Fixing Hole Ø in.	Ø A min-max in.	B1 Spanner Head in.	B2 Spanner Body in.	C in.	L min-max in.	Quantity Box/Bag
2003M1221N	M12x1.5	0.48	0.16 - 0.24	0.51	0.55	0.20	0.51 - 0.63	500/100
2003M1621N	M16x1.5	0.64	0.31 - 0.39	0.59	0.71	0.20	0.55 - 0.67	200/100
2003M2021N	M20x1.5	0.81	0.39 - 0.47	0.79	0.87	0.24	0.63 - 0.75	150/50
2003M2521N	M25x1.5	1.00	0.67 - 0.75	1.10	1.18	0.28	0.75 - 0.91	50/50
2003M3221N	M32x1.5	1.28	1.02 - 1.10	1.46	1.54	0.31	0.83 - 0.98	100/50
2003M4021N	M40x1.5	1.59	1.30 - 1.38	1.85	1.97	0.31	0.94 - 1.18	20/20
2003M5021N	M50x1.5	1.99	1.54 - 1.61	2.13	2.24	0.35	1.10 - 1.34	10/5
2003M6321N	M63x1.5	2.52	1.69 - 1.77	2.36	2.60 / 2.68	0.39	1.18 - 1.42	10/5

Sealing ring: RUBBER 55sh A

Pg thread DIN 40 430 - Dimensions DIN 46 320

Type Nickel Plated Brass	P	Fixing Hole Ø in.	Ø A min-max in.	B1 Spanner Head in.	B2 Spanner Body in.	C in.	L min-max in.	Quantity Box/Bag
200200721N	Pg 7	0.50	0.20 - 0.28	0.51	0.55	0.20	0.51 - 0.63	400/100
200200921N	Pg 9	0.61	0.31 - 0.39	0.59	0.67	0.24	0.55 - 0.67	300/100
200201121N	Pg11	0.74	0.31 - 0.39	0.71	0.79	0.24	0.55 - 0.71	200/50
200201321N	Pg13.5	0.81	0.39 - 0.47	0.79	0.87	0.26	0.63 - 0.75	100/50
200201621N	Pg16	0.89	0.47 - 0.55	0.87	0.94	0.26	0.67 - 0.79	50/50
200202121N	Pg21	1.12	0.67 - 0.75	1.10	1.18	0.28	0.75 - 0.91	50/50
200202921N	Pg29	1.46	1.02 - 1.10	1.46	1.57	0.31	0.83 - 0.98	15/15
200203621N*	Pg36	1.86	1.30 - 1.38	1.85	1.97	0.35	0.94 - 1.18	10/10
200204221N	Pg42	2.13	1.54 - 1.61	2.13	2.24	0.39	1.10 - 1.34	10/10
200204821N*	Pg48	2.36	1.69 - 1.77	2.36	2.52	0.39	1.42 - 1.77	10/10

*** Double sealing ring**



Sealing ring: PVC 50 sh A

BSP thread ISO 228/1

Type Nickel Plated Brass	P	Fixing Hole Ø in.	Ø A min-max in.	B1 Spanner Head in.	B2 Spanner Body in.	C in.	L min-max in.	Quantity Box/Bag
200101441N	G1/4"	0.53	0.22 - 0.28	0.51	0.59	0.26	0.55 - 0.67	400/100
207101441N	G1/4"	0.53	0.22 - 0.28	0.51	0.59**	0.26	0.55 - 0.67	400/100
200103841N	G3/8"	0.67	0.26 - 0.33	0.67	0.75	0.30	0.59 - 0.75	200/100
200101241N	G1/2"	0.85	0.31 - 0.43	0.83	0.91	0.31	0.67 - 0.91	100/100
200105841N	G5/8"	0.93	0.43 - 0.55	0.91	0.98	0.33	0.79 - 0.94	100/50
200103441N	G3/4"	1.06	0.57 - 0.69	1.06	1.14	0.35	0.79 - 1.02	50/50
200110041N	G1"	1.34	0.71 - 0.87	1.34	1.42	0.39	0.91 - 1.10	25/25
200111841N	G1"1/8	1.50	0.83 - 1.02	1.50	1.57	0.41	0.91 - 1.10	25/25
200111441N	G1"1/4	1.65	1.10 - 1.26	1.65	1.77	0.45	0.98 - 1.22	20/20
200111241N	G1"1/2	1.89	1.26 - 1.42	1.89	1.97	0.45	1.10 - 1.38	10/10
200120041N	G2"	2.36	1.50 - 1.65	2.36	2.52	0.53	1.22 - 1.46	10/10
• 200121221N*	G2"1/2	2.99	1.73 - 2.24	3.15	3.15	0.79	1.26 - 1.46	5/5
• 200130021N	G3"	3.50	2.64 - 2.72	3.74	3.74	0.79	1.65 - 2.05	5/5

• Sealing ring: Chloroprene
*** Concentric sealing ring**
**** Cylindrical body without hexagonal key**

CEMBRE

7900
7900A

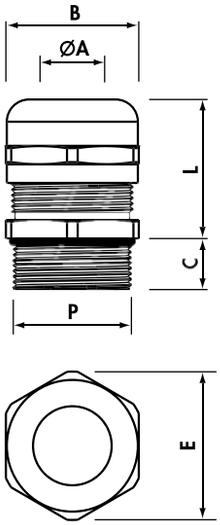
MAXIINOX CABLE GLANDS

Stainless Steel AISI 303 (X8 CrNiS 18-9) - Stainless Steel AISI 316L (X2 CrNiMo 17-12-2)

MAXIinox

STAINLESS STEEL | IP68 | -13°F +212°F | CE | UKCA | EN 45545-2

Material:
STAINLESS STEEL AISI 303/316L
Sealing-ring: NEOPRENE®
Cable grip insert: POLYAMIDE PA6.6
O-Ring: NITRILE 70 sh A
(factory fitted)
Protection: IP 68
Temperature range:
-13°F to +212°F (continuous)



Stainless Steel AISI 303

Metric thread M 1.5 pitch CEI EN 60423 CEI EN 62444

Stainless Steel AISI 303	P	Fixing Hole Ø in.	Ø A min-max in.	B Spanner in.	E in.	C in.	L min-max in.	Quantity Box/Bag
7900.M12	M12x1.5	0.48	0.12 - 0.28	0.63	0.71	0.26	0.63 - 0.79	*90/30*
7900.M16	M16x1.5	0.64	0.18 - 0.39	0.79	0.91	0.28	0.79 - 0.98	*120/30*
7900.M20	M20x1.5	0.81	0.28 - 0.51	0.94	1.06	0.31	0.79 - 1.06	*75/25*
7900.M25	M25x1.5	1.00	0.39 - 0.67	1.14	1.26	0.31	0.94 - 1.18	*40/20*
7900.M32	M32x1.5	1.28	0.43 - 0.83	1.42	1.57	0.35	1.06 - 1.34	*15*
7900.M40	M40x1.5	1.59	0.75 - 1.10	1.77	1.97	0.35	1.34 - 1.65	*15*
7900.M50	M50x1.5	1.99	1.02 - 1.38	2.13	2.36	0.39	1.38 - 1.69	*10*
7900.M63	M63x1.5	2.52	1.34 - 1.77	2.64	2.91	0.59	1.57 - 2.05	*5*

Stainless Steel AISI 316L

Metric thread M 1.5 pitch CEI EN 60423 CEI EN 62444

Stainless Steel AISI 316L	P	Fixing Hole Ø in.	Ø A min-max in.	B Spanner in.	E in.	C in.	L min-max in.	Quantity Box/Bag
7900A.M12	M12x1.5	0.48	0.12 - 0.28	0.63	0.71	0.26	0.63 - 0.79	*60/20*
7900A.M16	M16x1.5	0.64	0.18 - 0.39	0.79	0.91	0.28	0.79 - 0.98	*80/20*
7900A.M20	M20x1.5	0.81	0.28 - 0.51	0.94	1.06	0.31	0.79 - 1.06	*60/20*
7900A.M25	M25x1.5	1.00	0.39 - 0.67	1.14	1.26	0.31	0.94 - 1.18	*30/15*
7900A.M32	M32x1.5	1.28	0.43 - 0.83	1.42	1.57	0.35	1.06 - 1.34	*12*
7900A.M40	M40x1.5	1.59	0.75 - 1.10	1.77	1.97	0.35	1.34 - 1.65	*10*
7900A.M50	M50x1.5	1.99	1.02 - 1.38	2.13	2.36	0.39	1.38 - 1.69	*7*
7900A.M63	M63x1.5	2.52	1.34 - 1.77	2.64	2.91	0.59	1.57 - 2.05	*5*

MAXIINOX CABLE GLANDS

Stainless Steel AISI 303 (X8 CrNiS 18-9) - Stainless Steel AISI 316L (X2 CrNiMo 17-12-2)

7900
7900A

MAXI*inox*

Material:
STAINLESS STEEL AISI 303/316L
Sealing-ring: NEOPRENE®
Cable grip insert: POLYAMIDE PA6.6
O-Ring: NITRILE 70 sh A
(factory fitted)
Protection: IP 68
Temperature range:
-13°F to +212°F (continuous)

Stainless Steel AISI 303

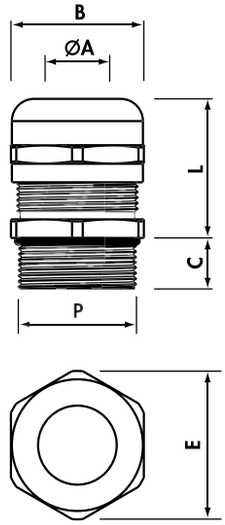
Pg thread DIN 40 430

Stainless Steel AISI 303	P	Fixing Hole Ø in.	Ø A min-max in.	B Spanner in.	E in.	C in.	L min-max in.	Quantity Box/Bag
7900.07	Pg 7	0.50	0.12 - 0.28	0.63	0.71	0.20	0.63 - 0.79	*90/30*
7900.09	Pg 9	0.61	0.16 - 0.31	0.67	0.75	0.24	0.67 - 0.91	*90/30*
7900.11	Pg11	0.74	0.18 - 0.39	0.79	0.91	0.24	0.79 - 0.98	*60/30*
7900.13	Pg13.5	0.81	0.20 - 0.47	0.87	0.98	0.26	0.79 - 1.02	*90/30*
7900.16	Pg16	0.89	0.28 - 0.51	0.94	1.06	0.26	0.79 - 1.06	*60/30*
7900.21	Pg21	1.12	0.39 - 0.67	1.18	1.30	0.28	0.94 - 1.18	*40/20*
7900.29	Pg29	1.46	0.67 - 0.98	1.57	1.77	0.31	1.18 - 1.46	*30/15*
7900.36	Pg36	1.86	0.79 - 1.26	1.97	2.17	0.31	1.50 - 1.89	*10*
7900.42	Pg42	2.13	1.10 - 1.50	2.24	2.48	0.39	1.42 - 1.81	*5*
7900.48	Pg48	2.36	1.34 - 1.77	2.64	2.91	0.59	1.57 - 2.05	*5*

Stainless Steel AISI 316L

Pg thread DIN 40 430

Stainless Steel AISI 316L	P	Fixing Hole Ø in.	Ø A min-max in.	B Spanner in.	E in.	C in.	L min-max in.	Quantity Box/Bag
7900A.07	Pg 7	0.50	0.12 - 0.28	0.63	0.71	0.20	0.63 - 0.79	*60/20*
7900A.09	Pg 9	0.61	0.16 - 0.31	0.67	0.75	0.24	0.67 - 0.91	*60/20*
7900A.11	Pg11	0.74	0.18 - 0.39	0.79	0.91	0.24	0.79 - 0.98	*100/20*
7900A.13	Pg13.5	0.81	0.20 - 0.47	0.87	0.98	0.26	0.79 - 1.02	*100/20*
7900A.16	Pg16	0.89	0.28 - 0.51	0.94	1.06	0.26	0.79 - 1.06	*40/20*
7900A.21	Pg21	1.12	0.39 - 0.67	1.18	1.30	0.28	0.94 - 1.18	*60/15*
7900A.29	Pg29	1.46	0.67 - 0.98	1.57	1.77	0.31	1.18 - 1.46	*20/10*
7900A.36	Pg36	1.86	0.79 - 1.26	1.97	2.17	0.31	1.50 - 1.89	*7*
7900A.42	Pg42	2.13	1.10 - 1.50	2.24	2.48	0.39	1.42 - 1.81	*5*
7900A.48	Pg48	2.36	1.34 - 1.77	2.64	2.91	0.59	1.57 - 2.05	*5*



CEMBRE

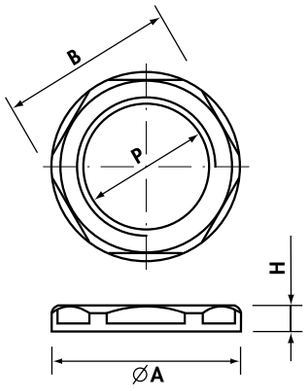
1143
1142
1141

LOCKNUTS WITH COLLAR

Polyamide PA6.6

PA 6.6 | V2 UL94 | -4°F +194°F

Material: POLYAMIDE PA6.6
self-extinguishing class V2 (UL 94)
Temperature range:
–4°F to +194°F (continuous)
Color: RAL 7035 light grey,
RAL 9005 black,
RAL 7001 dark grey



Metric thread M 1.5 pitch CEI EN 60423

Type Light Grey	P	Ø A in.	B Spanner in.	H in.	Quantity Box/Bag
1143M12	M12x1.5	0.73	0.67	0.20	*1,000/100*
1143M16	M16x1.5	0.94	0.87	0.20	*600/100*
1143M20	M20x1.5	1.14	1.06	0.24	*400/100*
1143M25	M25x1.5	1.40	1.26	0.24	*200/100*
1143M32	M32x1.5	1.77	1.61	0.28	*100/50*
1143M40	M40x1.5	2.17	1.97	0.28	*30*
1143M50	M50x1.5	2.56	2.36	0.31	*30*
1143M63	M63x1.5	3.23	2.95	0.31	*15*

Add to Ref: N for Black, G for Dark Grey

Pg thread DIN 40 430 - Dimensions DIN 46 320

Type Light Grey	P	Ø A in.	B Spanner in.	H in.	Quantity Box/Bag
1142007	Pg 7	0.83	0.75	0.20	*100*
1142009	Pg 9	0.94	0.87	0.20	*700/100*
1142011	Pg11	1.02	0.94	0.20	*500/100*
1142013	Pg13.5	1.14	1.06	0.24	*400/100*
1142016	Pg16	1.30	1.18	0.24	*300/100*
1142021	Pg21	1.54	1.42	0.28	*200/50*
1142029	Pg29	1.97	1.81	0.28	*50*
1142036	Pg36	2.60	2.36	0.31	*30*
1142042	Pg42	2.87	2.56	0.31	*25*
1142048	Pg48	3.07	2.76	0.31	*20*

Add to Ref: N for Black, G for Dark Grey

BSP thread ISO 228/1

Type Light Grey	P	Ø A in.	B Spanner in.	H in.	Quantity Box/Bag
1141012	G1/2"	1.14	1.06	0.24	*400/100*
1141112	G1"1/2	2.60	2.36	0.31	*30*
1141200	G2"	3.07	2.76	0.31	*20*

Add to Ref: N for Black

LOCKNUTS WITHOUT COLLAR

Polyamide PA6.6

1112
1710
1410

PA 6.6 | V2 UL94 | -4°F +194°F

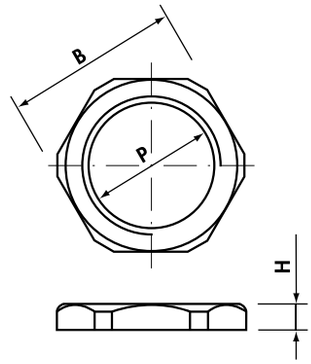
Material: POLYAMIDE PA6.6
self-extinguishing class V2 (UL 94)
Temperature range:
–4°F to +194°F (continuous)
Color: RAL 7035 light grey,
RAL 9005 black

Metric thread M 1.5 pitch CEI EN 60423

Type Light Grey	P	B Spanner in.	H in.	Quantity Box/Bag
1112	M12x1.5	0.67	0.20	*1,000/100*
1116	M16x1.5	0.87	0.20	*700/100*
1120	M20x1.5	1.06	0.24	*400/100*
1125	M25x1.5	1.26	0.24	*300/100*
1132	M32x1.5	1.61	0.28	*50*
1140	M40x1.5	1.97	0.28	*30*
1150	M50x1.5	2.36	0.31	*30*
1163	M63x1.5	2.95	0.31	*15*

Add to Ref: N for Black

Pg thread DIN 40 430 - Dimensions DIN 46 320



Type Light Grey	P	B Spanner in.	H in.	Quantity Box/Bag
1719E17*	Pg 7	0.67	0.20	*1,000/100*
1719	Pg 7	0.75	0.20	*100*
1710	Pg 9	0.87	0.20	*700/100*
1711	Pg11	0.94	0.20	*500/100*
1712	Pg13.5	1.06	0.24	*400/100*
1713	Pg16	1.18	0.24	*300/100*
Δ1714E34*	Pg21	1.34	0.28	*200/100*
1714	Pg21	1.42	0.28	*200/100*
1715	Pg29	1.81	0.30	*100/25*

Add to Ref: N for Black
Δ Light Grey only
*** Not DIN 46 320**

BSP thread ISO 228/1

Type Light Grey	P	B Spanner in.	H in.	Quantity Box/Bag
1410	G1/4″	0.75	0.20	*800/100*
1411	G3/8″	0.91	0.24	*600/100*
1412	G1/2″	1.06	0.24	*400/100*
1414	G3/4″	1.34	0.28	*200/100*
1415	G1″	1.57	0.28	*50*

Add to Ref: N for Black

CEMBRE

2033
2032
2031

LOCKNUTS

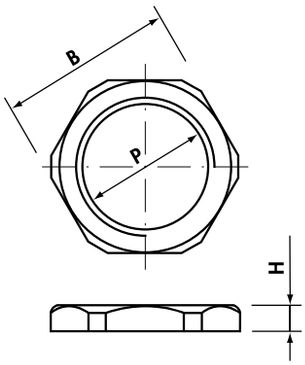
Nickel Plated Brass

BRASS | 3µm NICKEL PLATED | -13°F +212°F

Metric thread M 1.5 pitch CEI EN 60423

Type Nickel Plated Brass	P	B Spanner in.	H in.	Quantity Box/Bag
2033M12N	M12x1.5	0.63	0.11	2,000/100
2033M16N	M16x1.5	0.75	0.11	1,000/100
2033M20N	M20x1.5	0.94	0.12	600/100
2033M25N	M25x1.5	1.18	0.16	300/50
2033M32N	M32x1.5	1.42	0.16	250/25
2033M40N	M40x1.5	1.77	0.20	100/10
2033M50N	M50x1.5	2.36	0.20	80/10
2033M63N	M63x1.5	2.76	0.22	50/5

Pg thread DIN 40 430 - Dimensions DIN 46 320



Type Nickel Plated Brass	P	B Spanner in.	H in.	Quantity Box/Bag
2032007N	Pg 7	0.63*	0.11	1,500/100
2032009N	Pg 9	0.71	0.11	1,500/100
2032011N	Pg11	0.83	0.12	1,000/100
2032013N	Pg13.5	0.91	0.12	1,000/100
2032016N	Pg16	1.02	0.12	600/100
2032021N	Pg21	1.26	0.14	500/100
2032029N	Pg29	1.61	0.16	200/50
2032036N	Pg36	2.01	0.20	100/10
2032042N	Pg42	2.36	0.20	50/10
2032048N	Pg48	2.52	0.22	50/10

***Different dimension to DIN 46320**

BSP thread ISO 228/1

Type Nickel Plated Brass	P	B Spanner in.	H in.	Quantity Box/Bag
2031014N	G1/4″	0.63	0.12	2,400/100
2031038N	G3/8″	0.75	0.12	1,000/100
2031012N	G1/2″	0.94	0.14	1,000/100
2031058N	G5/8″	1.02	0.16	500/50
2031034N	G3/4″	1.18	0.16	500/50
2031100N	G1″	1.46	0.16	250/25
2031118N	G1″1/8	1.61	0.18	100/25
2031114N	G1″1/4	1.77	0.18	200/20
2031112N	G1″1/2	2.05	0.22	100/20
2031200N	G2″	2.52	0.28	50/10
2031212N	G2″1/2	3.15	0.28	20/5
2031300N	G3″	3.74	0.31	20/5

EMC LOCKNUTS

20N3

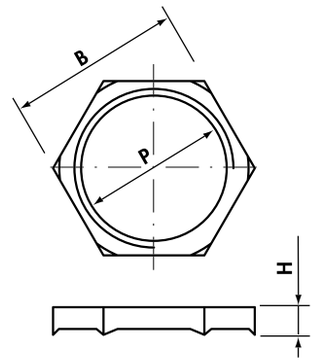
Nickel Plated Brass

With serrated teeth to maintain electrical contact

BRASS | 3µm NICKEL PLATED | -13°F +212°F

Metric thread M 1.5 pitch CEI EN 60423

Type Nickel Plated Brass	P	B Spanner in.	H in.	Quantity Box/Bag
20N3M12N	M12x1.5	0.59	0.14	*1,000/100*
20N3M16N	M16x1.5	0.75	0.14	*1,000/100*
20N3M20N	M20x1.5	0.94	0.14	*500/100*
20N3M25N	M25x1.5	1.18	0.16	*400/100*
20N3M32N	M32x1.5	1.42	0.16	*200/100*
20N3M40N	M40x1.5	1.81	0.19	*100/50*
20N3M50N	M50x1.5	2.36	0.22	*50/50*
20N3M63N	M63x1.5	2.76	0.26	*50/25*



MAXIINOX LOCKNUTS

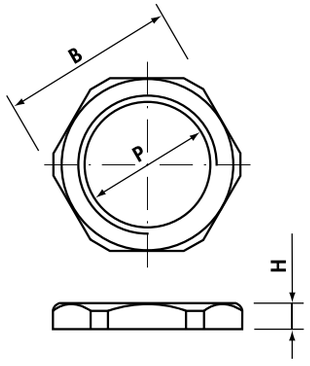
7032
7033

Stainless Steel AISI 303 (X8 CrNiS 18-9) - Stainless Steel AISI 316L (X2 CrNiMo 17-12-2)

STAINLESS STEEL | -13°F +212°F

Metric thread M 1.5 pitch CEI EN 60423

Stainless Steel AISI 303	Stainless Steel AISI 316L	P	B Spanner in.	H in.	AISI 303 Quantity Box/Bag	AISI 316L Quantity Box/Bag
7033M12	**7033AM12**	M12x1.5	0.63	0.11	*450/30*	*300/20*
7033M16	**7033AM16**	M16x1.5	0.79	0.11	*450/30*	*300/20*
7033M20	**7033AM20**	M20x1.5	0.94	0.14	*250/25*	*200/20*
7033M25	**7033AM25**	M25x1.5	1.14	0.16	*160/20*	*120/15*
7033M32	**7033AM32**	M32x1.5	1.42	0.16	*105/15*	*84/12*
7033M40	**7033AM40**	M40x1.5	1.77	0.20	*60/15*	*40/10*
7033M50	**7033AM50**	M50x1.5	2.24	0.20	*40/10*	*28/7*
7033M63	**7033AM63**	M63x1.5	2.76	0.22	*32/8*	*20/5*



Pg thread DIN 40 430

Stainless Steel AISI 303	Stainless Steel AISI 316L	P	B Spanner in.	H in.	AISI 303 Quantity Box/Bag	AISI 316L Quantity Box/Bag
7032007	**7032A007**	Pg 7	0.63	0.11	*450/30*	*300/20*
7032009	**7032A009**	Pg 9	0.79	0.11	*450/30*	*300/20*
7032011	**7032A011**	Pg11	0.87	0.12	*300/30*	*200/20*
7032013	**7032A013**	Pg13.5	0.87	0.12	*300/30*	*200/20*
7032016	**7032A016**	Pg16	1.06	0.12	*240/30*	*160/20*
7032021	**7032A021**	Pg21	1.26	0.14	*160/20*	*150/15*
7032029	**7032A029**	Pg29	1.61	0.16	*60/15*	*40/10*
7032036	**7032A036**	Pg36	1.97	0.20	*40/10*	*28/7*
7032042	**7032A042**	Pg42	2.36	0.20	*40/10*	*20/5*
7032048	**7032A048**	Pg48	2.52	0.22	*32/8*	*20/5*

CEMBRE

TCP

INTERNAL PLUGS FOR CABLE GLANDS

Polyamide PA6.6

For cable glands type:

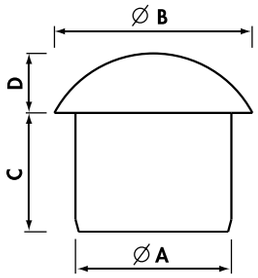
MAXIblock®
MAXIbrass®
MAXIinox

PA 6.6 | IP68 | V2 UL94

-4°F +194°F

Material: POLYAMIDE PA6.6
self-extinguishing class V2 (UL 94)
Temperature range:
–4°F to +194°F (continuous)
Color: RAL 9005 black

Application:
Blanking the cable entry of cable glands and maintaining IP 68.



Plugs

Type	Suitable for MAXIblock®	Suitable for MAXIbrass® MAXIinox	Ø A in.	Ø B in.	C in.	D in.	Quantity Box/Bag
TCP5	M12R + Pg7R	M12R	0.18	0.33	0.43	0.18	*3,000/100*
TCP10	Pg9R	Pg9R	0.24	0.47	0.47	0.18	*1,500/100*
TCP12	M12 + Pg7	M12 + Pg7	0.27	0.47	0.47	0.18	*1,000/100*
	M16R + Pg11R	M16R + Pg11R					
TCP15	Pg9	Pg9	0.31	0.43	0.45	0.20	*1,500/100*
TCP18	M16 + Pg11	M16 + Pg11	0.37	0.49	0.51	0.20	*800/100*
TCP20	M20R	M20R	0.39	0.59	0.55	0.24	*800/100*
	Pg13.5 + Pg13.5R	Pg13 + Pg13.5R					
	Pg16R	Pg16R					
TCP25	M20 + Pg16	M20 + Pg16	0.49	0.67	0.59	0.31	*400/100*
TCP30	M25R + M32R	M25R + M32R	0.49	0.89	0.71	0.35	*300/100*
	Pg21R	Pg21R					
TCP35	M25 + Pg21	M25 + Pg21	0.63	0.77	0.71	0.31	*200/100*
TCP40	M32	M32	0.75	0.89	0.75	0.35	*150/50*
TCP45	M40R + Pg29 + Pg36R	M40R + Pg29	0.87	1.18	0.79	0.39	*100/50*
TCP50	M40 + M50R + Pg42R	M40 + M50R	1.08	1.50	0.98	0.47	*50/25*
TCP55	Pg36	Pg36	1.24	1.44	0.93	0.47	*50/25*
TCP60	M50	M50	1.36	1.57	0.93	0.47	*50/25*
TCP65	M63R + Pg42 + Pg48R	M63R + Pg42	1.48	1.89	1.04	0.47	*30/15*
TCP70	M63 + Pg48	M63 + Pg48	1.69	1.89	1.04	0.47	*30/15*

R: reduced cable entry

MULTI-ENTRY SEALS FOR CABLE GLANDS

Neoprene® 70 sh A

36A
36C

For cable glands type:

MAXIblock®
MAXIbrass®
MAXIinox

Material: NEOPRENE® 70 sh A
Temperature range:
–40°F to +266°F
Protection: IP 68
Color: RAL 9005 black

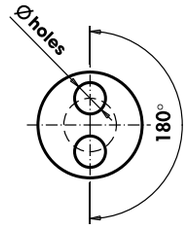
Application:
IP68 sealing of multiple cables entering cable glands.

NEOPRENE | IP68 | -40°F +266°F

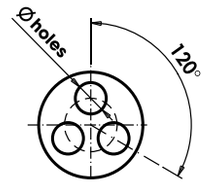
Multi-entry seals

Type	Suitable for MAXIblock®	Suitable for MAXIbrass® MAXIinox	No. entries	Ø entries in.	Quantity Box/Bag
36A3M1623	M16 + Pg11	M16 + Pg11	2	0.12	*500/100*
36A3M1624	M16 + Pg11	M16 + Pg11	2	0.16	*1,000/100*
36A3M16322	M16 + Pg11	M16 + Pg11	3	0.09	*1,000/100*
36A3M2025	M20 + Pg13.5	M20 + Pg13.5 + Pg16	2	0.20	*500/100*
36A3M2026	M20 + Pg13.5	M20 + Pg13.5 + Pg16	2	0.24	*500/100*
36A3M2034	M20 + Pg13.5	M20 + Pg13.5 + Pg16	3	0.16	*500/100*
36A3M2035	M20 + Pg13.5	M20 + Pg13.5 + Pg16	3	0.20	*500/100*
36A3M20356	M20 + Pg13.5	M20 + Pg13.5 + Pg16	3	0.22	*500/100*
36A3M2526	M25	M25 + Pg21	2	0.24	*300/50*
36A3M2536	M25	M25 + Pg21	3	0.24	*300/50*
36A3M2537	M25	M25 + Pg21	3	0.28	*300/50*
36A3M2545	M25	M25 + Pg21	4	0.20	*300/50*
36A3M2546	M25	M25 + Pg21	4	0.24	*300/50*
36A3M2554	M25	M25 + Pg21	5	0.16	*300/50*
36C3M252105	M25	M25 + Pg21	2	0.20 + 0.41	*300/50*
36A3M3228	M32	M32	2	0.31	*150/50*
36A3M3239	M32	M32	3	0.35	*150/50*
36A3M32465	M32	M32	4	0.26	*150/50*
36A3M3248	M32	M32	4	0.31	*150/50*
36A3M4078	M40	M40	7	0.31	*100/100*
36A3M40106	M40	M40	10	0.24	*100/100*
36A3M5088	M50 + Pg 36	M50 + Pg 36	8	0.31	*50/50*
36C201629	Pg16	-	2	0.12 + 0.35	*400/50*

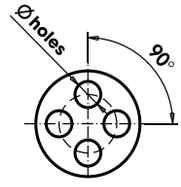
2 ENTRIES



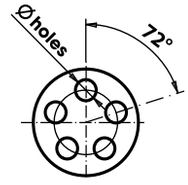
3 ENTRIES



4 ENTRIES



5 ENTRIES



MULTI-ENTRY SEAL PLUGS FOR CABLE GLANDS

Polyamide PA6.6

TGM

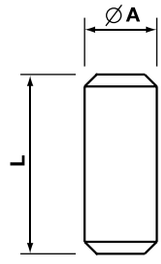
Material: POLYAMIDE PA6.6
Temperature range:
–4°F to +194°F (continuous)
Color: RAL 7035 light grey

Application:
Plugging unused entries in multi-entry seals and maintaining IP68.

PA 6.6 | IP68 | -4°F +194°F

Multi-entry seal plugs

Type	Suitable for Seal	Ø A in.	L in.	Quantity Box/Bag
TGM38	36A3M1623	0.12	0.39	*5,000/100*
TGM48	36A3M1624 + 36A3M2034 + 36A3M2554	0.16	0.31	*5,000/100*
TGM58	36A3M2025	0.20	0.31	*5,000/100*
TGM513	36A3M2545	0.20	0.51	*2,500/50*
TGM613	36A3M2526 + 36A3M2536 + 36A3M40106	0.24	0.51	*2,000/50*
TGM713	36A3M2537	0.28	0.51	*2,000/50*
TGM817	36A3M3248 + 36A3M5088 + 36A3M4078	0.31	0.67	*100*



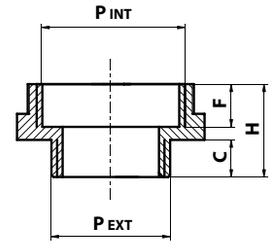
CEMBRE

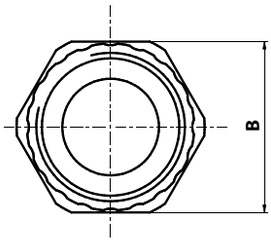
1173M
1153M

ENTRY THREAD ADAPTERS

Polyamide PA6.6

Material:
POLYAMIDE PA6.6
self-extinguishing class V2 (UL 94)
Temperature range:
–40°F to +185°F (continuous)
Color: RAL 7035 light grey,
RAL 9005 black





Entry thread enlargers

Metric thread M 1.5 pitch CEI EN 60423

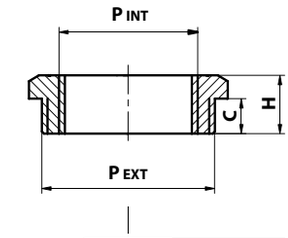
Type	P EXT	P INT	B Spanner in.	F in.	C in.	H in.	Quantity Box/Bag
1173M1216	M12x1.5	M16x1.5	0.79	0.41	0.31	0.83	*200/100*
1173M1620	M16x1.5	M20x1.5	0.94	0.41	0.31	0.83	*200/100*
1173M2025	M20x1.5	M25x1.5	1.14	0.39	0.31	0.83	*100/50*
1173M2532	M25x1.5	M32x1.5	1.42	0.45	0.31	0.91	*50/50*
1173M3240	M32x1.5	M40x1.5	1.81	0.45	0.39	0.98	*50/50*

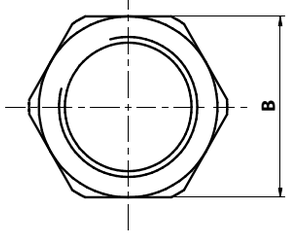
Entry thread reducers

Metric thread M 1.5 pitch CEI EN 60423

Type	P EXT	P INT	B Spanner in.	C in.	H in.	Quantity Box/Bag
1153M1612	M16x1.5	M12x1.5	0.87	0.31	0.47	*300/100*
1153M2012	M20x1.5	M12x1.5	0.94	0.31	0.47	*300/100*
1153M2016*	M20x1.5	M16x1.5	0.94	0.31	0.47	*300/100*
1153M2512	M25x1.5	M12x1.5	1.14	0.31	0.55	*200/100*
1153M2516	M25x1.5	M16x1.5	1.14	0.31	0.55	*150/50*
1153M2520*	M25x1.5	M20x1.5	1.14	0.31	0.55	*150/50*
1153M3216	M32x1.5	M16x1.5	1.42	0.39	0.63	*100/50*
1153M3220	M32x1.5	M20x1.5	1.42	0.39	0.63	*100/50*
1153M3225*	M32x1.5	M25x1.5	1.42	0.39	0.63	*100/50*
1153M4020	M40x1.5	M20x1.5	1.81	0.39	0.63	*50/25*
1153M4025	M40x1.5	M25x1.5	1.81	0.39	0.63	*50/25*
1153M4032	M40X1.5	M32X1.5	1.81	0.39	0.63	*50/25*
1153M5025	M50X1.5	M25x1.5	2.17	0.47	0.71	*30/10*
1153M5032	M50X1.5	M32X1.5	2.17	0.47	0.71	*30/10*
1153M5040	M50X1.5	M40X1.5	2.17	0.47	0.71	*30/10*
1153M6332	M63X1.5	M32X1.5	2.68	0.47	0.71	*20/10*
1153M6340	M63X1.5	M40X1.5	2.68	0.47	0.71	*20/10*
1153M6350	M63X1.5	M50X1.5	2.68	0.47	0.71	*20/10*

***Add to Ref: N for Black**





ENTRY THREAD ADAPTERS

Nickel Plated Brass

2093
2043
20A4

BRASS | 3µm NICKEL PLATED | -13°F +212°F

Entry thread enlargers

Metric thread M 1.5 pitch CEI EN 60423

Type	P EXT	P INT	Ø A in.	C in.	H in.	Quantity Box/Bag
20931216N	M12x1.5	M16x1.5	0.71	0.20	0.61	*500/100*
20931620N	M16x1.5	M20x1.5	0.87	0.20	0.69	*300/100*
20932025N	M20x1.5	M25x1.5	1.06	0.24	0.79	*150/50*
20932532N	M25x1.5	M32x1.5	1.34	0.28	0.89	*100/50*
20932540N	M25x1.5	M40x1.5	1.65	0.28	0.93	*50/50*
20933240N	M32x1.5	M40x1.5	1.65	0.31	0.96	*50/50*
20933250N	M32x1.5	M50x1.5	2.05	0.31	1.08	*25/25*
20934050N	M40x1.5	M50x1.5	2.05	0.31	1.08	*25/25*
20935063N	M50x1.5	M63x1.5	2.60	0.35	1.22	*20/10*

Entry thread reducers

Metric thread M 1.5 pitch CEI EN 60423

Type	P EXT	P INT	Ø A in.	C in.	H in.	Quantity Box/Bag
20431612N	M16x1.5	M12x1.5	0.71	0.20	0.30	*1.000/100*
20432012N	M20x1.5	M12x1.5	0.87	0.24	0.35	*600/100*
20432016N	M20x1.5	M16x1.5	0.87	0.24	0.35	*500/100*
20432512N	M25x1.5	M12x1.5	1.06	0.28	0.39	*300/50*
20432516N	M25x1.5	M16x1.5	1.06	0.28	0.39	*300/50*
20432520N	M25x1.5	M20x1.5	1.06	0.28	0.39	*300/100*
20433220N	M32x1.5	M20x1.5	1.34	0.31	0.43	*100/25*
20433225N	M32x1.5	M25x1.5	1.34	0.31	0.43	*150/50*
20434025N	M40x1.5	M25x1.5	1.69	0.31	0.45	*100/25*
20434032N	M40x1.5	M32x1.5	1.69	0.31	0.45	*100/25*
20435032N	M50x1.5	M32x1.5	2.09	0.35	0.49	*50/10*
20435040N	M50x1.5	M40x1.5	2.09	0.35	0.49	*50/25*
20436340N	M63x1.5	M40x1.5	2.60	0.39	0.55	*30/10*
20436350N	M63x1.5	M50x1.5	2.60	0.39	0.55	*30/10*

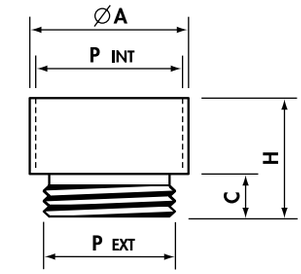


Fig. 1

Entry thread converters - Metric to Pg

Type	P EXT	P INT	Fig.	Ø A in.	C in.	H in.	Quantity Box/Bag
20A42011N	M20x1.5	Pg11	1	0.87	0.26	0.69	*300/100*
20A42016N	M20x1.5	Pg16	1	0.94	0.26	0.79	*200/50*
20A42513N	M25x1.5	Pg13.5	2	1.06	0.28	0.39	*300/50*
20A42516N	M25x1.5	Pg16	2	1.06	0.28	0.39	*300/50*
20A43216N	M32x1.5	Pg16	2	1.42	0.31	0.45	*100/25*
20A43221N	M32x1.5	Pg21	2	1.42	0.31	0.45	*100/25*

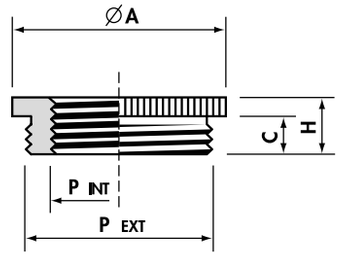


Fig. 2

Entry thread converters - Pg to Metric

20A40916N	Pg 9	M16x1.5	1	0.79	0.24	0.59	*400/100*
20A41120N	Pg11	M20x1.5	1	0.87	0.24	0.63	*300/100*
20A41320N	Pg13.5	M20x1.5	1	0.94	0.26	0.65	*200/50*
20A41620N	Pg16	M20x1.5	2	0.94	0.26	0.37	*50/50*
20A42120N	Pg21	M20x1.5	2	1.18	0.28	0.39	*100/100*
20A42125N	Pg21	M25x1.5	2	1.18	0.28	0.39	*100/100*
20A42925N	Pg29	M25x1.5	2	1.54	0.31	0.45	*50/50*

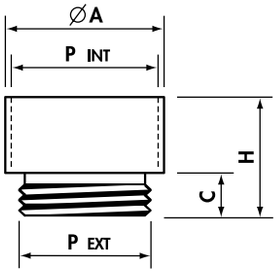
CEMBRE

1800 2042

ENTRY THREAD ADAPTERS

Nickel Plated Brass

BRASS | 3µm NICKEL PLATED | -13°F +212°F



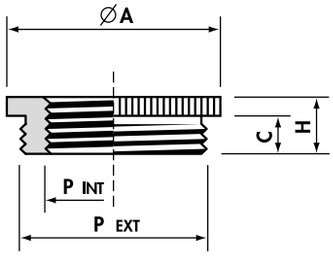
Entry thread enlargers

Pg thread DIN 40 430 - Dimensions DIN 46 320-K

Type	P EXT	P INT	Ø A in.	C in.	H in.	Quantity Box/Bag
180709	Pg 7	Pg 9	0.67	0.20	0.59	*600/100*
180911	Pg 9	Pg11	0.79	0.24	0.65	*500/100*
180913	Pg 9	Pg13.5	0.87	0.24	0.69	*300/100*
181113	Pg11	Pg13.5	0.87	0.24	0.69	*300/100*
181116	Pg11	Pg16	0.94	0.24	0.73	*100/50*
181316	Pg13.5	Pg16	0.94	0.26	0.75	*200/50*
181321	Pg13.5	Pg21	1.18	0.26	0.83	*150/50*
181621	Pg16	Pg21	1.18	0.26	0.83	*100/25*
182129	Pg21	Pg29	1.54	0.28	0.91	*75/25*
182936	Pg29	Pg36	1.97	0.31	1.08	*30/10*
183642	Pg36	Pg42	2.24	0.35	1.22	*20/10*
184248	pg42	pg48	2.52	0.39	1.30	*20/10*

Entry thread reducers

Pg thread DIN 40 430 - Dimensions DIN 46 320-H



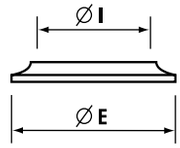
Type	P EXT	P INT	Ø A in.	C in.	H in.	Quantity Box/Bag
20420907N	Pg 9	Pg 7	0.67	0.24	0.33	*800/100*
20421107N	Pg11	Pg 7	0.79	0.24	0.33	*600/100*
20421109N	Pg11	Pg 9	0.79	0.24	0.33	*600/100*
20421307N	Pg13.5	Pg 7	0.87	0.26	0.35	*600/100*
20421309N	Pg13.5	Pg 9	0.87	0.26	0.35	*600/100*
20421311N	Pg13.5	Pg11	0.87	0.26	0.35	*600/100*
20421607N	Pg16	Pg 7	0.94	0.26	0.37	*300/50*
20421609N	Pg16	Pg 9	0.94	0.26	0.37	*400/100*
20421611N	Pg16	Pg11	0.94	0.26	0.37	*400/100*
20421613N	Pg16	Pg13.5	0.94	0.26	0.37	*400/100*
20422111N	Pg21	Pg11	1.18	0.28	0.39	*200/50*
20422113N	Pg21	Pg13.5	1.18	0.28	0.39	*200/50*
20422116N	Pg21	Pg16	1.18	0.28	0.39	*200/50*
20422916N	Pg29	Pg16	1.54	0.31	0.45	*100/25*
20422921N	Pg29	Pg21	1.54	0.31	0.45	*100/25*
20423621N	Pg36	Pg21	1.97	0.35	0.49	*50/25*
20423629N	Pg36	Pg29	1.97	0.35	0.49	*50/25*
20424236N	Pg42	Pg36	2.24	0.39	0.55	*50/25*
20424836N	Pg48	Pg36	2.52	0.39	0.55	*25/25*
20424842N	Pg48	Pg42	2.52	0.39	0.55	*50/25*

Compression washers

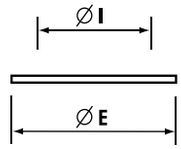
Type	Fits thread	Ø E in.	Ø I in.	Quantity Box/Bag
6010.14	Pg7 + G1/4"	0.43	0.31	*15.000/1.000*
6010.38	Pg9 + G3/8"	0.57	0.39	*5.000/1.000*
6010.11	Pg11 + G3/8"	0.67	0.47	*5.000/1.000*
6010.12	Pg13.5 + G1/2"	0.71	0.55	*4.000/1.000*
6010.58	Pg16 + G5/8"	0.79	0.61	*3.000/1.000*
6010.34	G3/4"	0.94	0.73	*2.500/500*
6010.114	G1"1/4	1.50	1.30	*1.000/500*
6010.21	Pg21 + G3/4"	1.04	0.79	*2.000/500*
6010.01	G1"	1.18	0.96	*1.500/500*
6010.29	Pg29 + G1"1/8	1.38	1.04	*1.000/500*
6010.36	Pg36 + G1"1/2	1.77	1.50	*750/250*
6010.42	Pg42	2.01	1.67	*500/250*
6010.48	Pg48 + G2"	2.24	1.89	*400/100*

Subject to availability, the compression washers could be of type A or B

Material:
Zinc plated STEEL UNI 5961/84



Type A



Type B

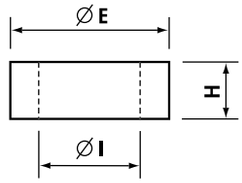
341
342
343
344

SEALING RINGS

PVC 50 sh A

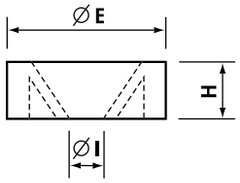
PVC -4°F +194°F

Material: PVC 50 sh A
Color: Red



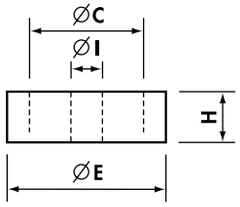
Cylindrical sealing rings

Type	Suitable for Cable Glands IP54 (1700.., 2001.., 2002.., 2003..)	C in.	Ø E in.	Ø I in.	H in.	Quantity Box/Bag
3411014	G1/4″	–	0.43	0.26	0.24	*1.500/100*
3411038	G3/8″ + M16	–	0.57	0.33	0.24	*1.000/100*
3411012	Pg13.5 + G1/2″ + M20	–	0.71	0.43	0.30	*500/100*
3412016	Pg16 + G5/8″	–	0.79	0.55	0.30	*300/100*
3422016	Pg16 + G5/8″	–	0.79	0.39	0.30	*300/100*
3411034	G3/4″	–	0.93	0.69	0.31	*300/100*
3411100	G1″	–	1.14	0.87	0.39	*200/100*
3412011	Pg11	–	0.65	0.39	0.28	*1.000/100*
3412021	Pg21 + M25	–	1.02	0.71	0.33	*300/100*
3412029	Pg29 + G1″1/8 + M32	–	1.38	1.02	0.39	*200/100*



Membrane sealing rings

Type	Suitable for Cable Glands IP54 (1700.., 2001.., 2002.., 2003..)	C in.	Ø E in.	Ø I in.	H in.	Quantity Box/Bag
3431100	G1″	–	1.14	0.59	0.37	*200/100*



Double sealing rings

Type	Suitable for Cable Glands IP54 (2001.., 2002.., 2003..)	C in.	Ø E in.	Ø I in.	H in.	Quantity Box/Bag
3441012	G1/2″ + Pg13.5 + M20	0.51	0.73	0.31	0.26	*500/100*
3441034	G3/4″	0.67	0.91	0.49	0.33	*300/100*

SEALING RINGS

Butadiene-Nitrile NBR

1880
1890

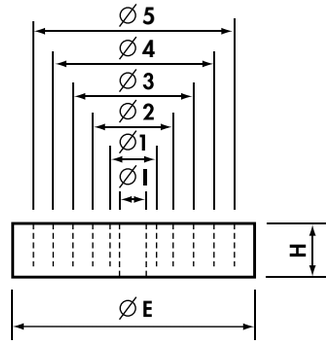
Concentric sealing rings

Type	Suitable for Cable Glands IP54 (1700.., 2001.., 2002.., 2003..)	Ø E in.	Ø 5 in.	Ø 4 in.	Ø 3 in.	Ø 2 in.	Ø 1 in.	Ø I in.	H in.	Quantity Box/Bag
1880	Pg9 + M16	0.52	–	–	–	0.39	0.30	0.20	5,5	*1.500/100*
1881	Pg11	0.65	–	–	–	0.49	0.39	0.30	6,0	*1.000/100*
1882	Pg13.5 + M20 + G1/2″	0.72	–	–	–	0.49	0.39	0.30	6,0	*800/100*
1883	Pg16 + G5/8″	0.80	–	–	0.59	0.49	0.39	0.30	7,0	*600/100*
1884	Pg21 + M25	1.02	–	–	0.75	0.63	0.51	0.39	8,0	*300/100*
1884A	Pg21 + M25	1.02	–	–	0.81	0.71	0.59	0.41	8,0	*50/25*
1885*	Pg29 + M32 + G1″1/8	1.37	–	–	1.06	0.94	0.83	0.71	9,5	*150/50*
1886	Pg36 + G1″1/2 + M40	1.76	–	–	1.30	1.18	1.06	0.94	12,0	*100/50*
1887*	Pg42 + M50	2.04	–	–	1.54	1.42	1.30	1.18	14,0	*50/25*
1888/5	Pg48 + G2″ + M63	2.24	1.77	1.61	1.46	1.30	1.14	0.94	14,0	*75/25*
1888*	Pg48 + G2″ + M63	2.24	–	–	1.77	1.65	1.54	1.42	14,0	*50/25*

***material: RUBBER NR**

NBR -22°F +212°F

Material:
BUTADIENE-NITRILE NBR
with concentric perforations

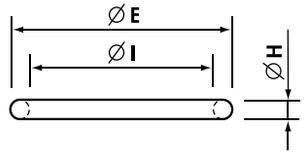


O-rings

Type	Fits thread	Ø E in.	Ø I in.	Ø H in.	Quantity Box/Bag
1889	M12	0.50	0.36	0.07	*1.000/1.000*
1890	Pg7 + G1/4″	0.57	0.43	0.07	*5.000/1.000*
1890A	M16 + Pg9 + G3/8″	0.63	0.49	0.07	*5.000/1.000*
1891	Pg11	0.75	0.61	0.07	*5.000/1.000*
1891A	M20	0.82	0.68	0.07	*5.000/1.000*
1892	Pg13.5 + G1/2″	0.88	0.74	0.07	*5.000/1.000*
1892A	Pg16 + G5/8″	0.94	0.80	0.07	*5.000/1.000*
1892B	M25	1.00	0.86	0.07	*5.000/1.000*
1893	Pg21	1.13	0.99	0.07	*3.000/500*
1893A	M32	1.18	1.02	0.08	*500/500*
1925.3	G3/4″	1.19	0.99	0.10	*1.000/500*
1894	G1″	1.38	1.17	0.10	*1.000/500*
1895	M40 + Pg29 + G1″1/8	1.57	1.36	0.10	*1.000/500*
1896	G1″1/4	1.69	1.49	0.10	*500/500*
1897	Pg36 + G1″1/2	1.94	1.74	0.10	*800/100*
1898	Pg42 + G1″3/4	2.19	1.99	0.10	*800/100*
1899	Pg48 + G2″	2.44	2.24	0.10	*100*
1899A	G2″1/2	3.01	2.73	0.14	*100/1*
1899B	G3″	3.65	3.23	0.21	*100/1*

NBR -22°F +212°F

Material:
Butadiene-Nitrile 70 sh

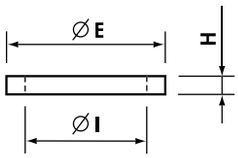


CEMBRE

357

SBR -4°F +158°F

Material:
BUTADIENE-STIRENE SBR 70 sh A
Temperature range: -4°F to +158°F
Color: RAL 7035 light grey



SEALING RINGS

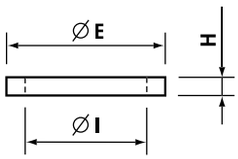
Butadiene-Stirene SBR 70shA

Type	Fits thread	Ø E in.	Ø I in.	H in.	Quantity Box/Bag
3572007	Pg7	0.65	0.45	0.04	*4.000/100*
3572011	Pg11	0.91	0.69	0.04	*2.500/100*
35720131	Pg13.5 + M20X1.5 + G1/2"	1.08	0.81	0.06	*1.000/100*
3572013	Pg13.5	1.18	0.81	0.09	*1.000/100*
3572016	Pg16	1.14	0.91	0.08	*1.000/100*
3572021	Pg21	1.32	1.06	0.12	*500/100*
3573M16	M16x1.5	0.81	0.64	0.04	*3.000/100*
3573M20	M20X1.5 + Pg13.5 + G1/2"	1.00	0.81	0.04	*4.000/100*
3573M25	M25x1.5	1.20	1.00	0.04	*2.000/100*
3573M32	M32x1.5	1.59	1.28	0.04	*1.500/100*

FD

NEOPRENE -13°F +212°F

Material:
NEOPRENE® 80 sh A
Temperature range: -13°F to +212°F
Color: RAL 9005 black



SEALING RINGS

Neoprene® 80 sh A

Type	Fits thread	Ø E in.	Ø I in.	H in.	Quantity Box/Bag
FD M12	M12	0.63	0.39	0.05	*2.500/50*
FD 7	Pg7 + G1/4"	0.67	0.44	0.05	*3.000/50*
FD 9	Pg9 + M16	0.79	0.55	0.05	*2.000/50*
FD M16	M16* + G3/8"	0.79	0.61	0.05	*2.000/50*
FD 11	Pg11	0.91	0.67	0.05	*2.000/50*
FD M20	M20	0.94	0.71	0.05	*2.000/50*
FD 13,5	Pg13.5 + G1/2"	0.98	0.75	0.05	*2.500/50*
FD 16	Pg16 + G5/8"	1.06	0.83	0.05	*1.500/50*
FD M25	M25	1.22	0.91	0.05	*1.000/20*
FD 21	Pg21 + G3/4"	1.36	1.06	0.06	*1.000/25*
FD M32	M32 + G1"	1.42	1.18	0.05	*600/20*
FD 29	Pg29 + G1"1/8"	1.77	1.39	0.06	*500/25*
FD M40	M40 + G1"1/4	1.81	1.50	0.05	*500/20*
FD 36	Pg36 + G1"1/2"	2.11	1.80	0.05	*250/25*
FD M50	M50	2.17	1.87	0.04	*10*
FD 42	Pg42 + G1"3/4"	2.44	2.05	0.04	*10*
FD 48	Pg48 + G2"	2.68	2.28	0.04	*10*
FD M63	M63	2.68	2.32	0.04	*500/5*

***recommended with set screws**

ENTRY PLUGS

Polyamide PA6

Metric thread M 1.5 pitch CEI EN 60423

Type Light Grey	P	ØA in.	C in.	Quantity Box/Bag
1053M12	M12x1.5	0.59	0.24	100
1053M16	M16x1.5	0.79	0.24	100
1053M20	M20x1.5	0.98	0.28	100
1053M25	M25x1.5	1.18	0.28	100
1053M32	M32x1.5	1.46	0.35	50
1053M40	M40x1.5	1.85	0.35	30
1053M50	M50x1.5	2.28	0.39	20
1053M63	M63x1.5	2.83	0.47	10

Add to Ref: N for Black

Pg thread DIN 40 430 - Dimensions DIN 46 320

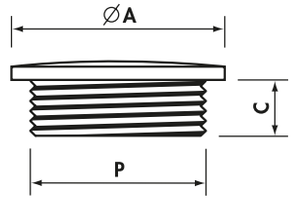
Type Light Grey	P	ØA in.	C in.	Quantity Box/Bag
1052007	Pg 7	0.59	0.24	100
1052009	Pg 9	0.75	0.24	100
1052011	Pg11	0.87	0.28	100
1052013	Pg13.5	0.98	0.28	100
1052016	Pg16	1.06	0.28	100
1052021	Pg21	1.30	0.35	50
1052029	Pg29	1.73	0.35	100/25
1052036	Pg36	2.17	0.39	20
1052042	Pg42	2.44	0.39	10
1052048	Pg48	2.72	0.47	10

Add to Ref: N for Black

1053
1052

PA 6 | IP54 | HB UL94 | -4°F +194°F

Material: POLYAMIDE PA6
reinforced with fibreglass
self-extinguishing class HB (UL 94)
Temperature range:
–4°F to +194°F (continuous)
Protection: IP 54
Color: RAL 7035 light grey,
RAL 9005 black



Polystyrene PS

Metric thread M 1.5 pitch CEI EN 60423

Type Light Grey	P	ØA in.	C in.	Quantity Box/Bag
1253M12	M12x1.5	0.59	0.24	100
1253M16	M16x1.5	0.79	0.24	100
1253M20	M20x1.5	0.98	0.28	100
1253M25	M25x1.5	1.18	0.28	100
1253M32	M32x1.5	1.46	0.35	50
1253M40	M40x1.5	1.85	0.35	30
1253M50	M50x1.5	2.28	0.39	20
1253M63	M63x1.5	2.83	0.47	10

Add to Ref: N for Black

Pg thread DIN 40 430 - Dimensions DIN 46 320

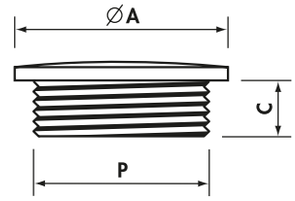
Type Light Grey	P	ØA in.	C in.	Quantity Box/Bag
1840	Pg 7	0.59	0.24	100
1841	Pg 9	0.75	0.24	100
1842	Pg11	0.87	0.28	100
1843	Pg13.5	0.98	0.28	100
1844	Pg16	1.06	0.28	100
1845	Pg21	1.30	0.35	50
1846	Pg29	1.73	0.35	100/25
1847	Pg36	2.17	0.39	20
1848	Pg42	2.44	0.39	10
1849	Pg48	2.72	0.47	10

Add to Ref: N for Black

1253
1840

PS | IP54 | -4°F +140°F

Material: POLYSTYRENE PS
Temperature range:
–4°F to +140°F (continuous)
Protection: IP 54
Color: RAL 7035 light grey,
RAL 9005 black



CEMBRE

1700

ENTRY BUSHES

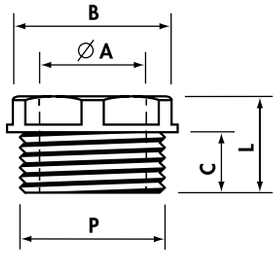
Polyamide PA6

PA 6 V0 UL94

PA 6.6 V2 UL94 **

-4°F +194°F

Material: POLIAMMIDE PA6 / PA6.6**
self-extinguishing class V0 / V2** (UL 94)
Temperature range:
–4°F to +194°F (continuous)
Color: RAL 7035 light grey,
RAL 9005 black



Entry bushes

Pg thread DIN 40 430 - Dimensions DIN 46 320

Type Light Grey	P	Ø A in.	B Spanner in.	C in.	L min-max in.	Quantity Box/Bag
*1700.2	Pg 9	0.39	0.63	0.35	0.55	600/100
*1701.2	Pg11	0.45	0.75	0.39	0.59	300/100
*1702.2**	Pg13.5	0.53	0.83	0.43	0.65	300/100
1703.2	Pg16	0.63	0.91	0.49	0.73	200/50
1704.2	Pg21	0.87	1.18	0.47	0.69	100/50
1705.2	Pg29	1.06	1.57	0.59	0.87	50/50

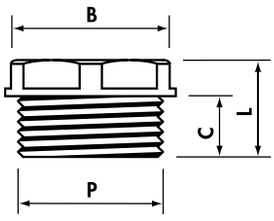
BSP thread ISO 228/1

Type Light Grey	P	Ø A in.	B Spanner in.	C in.	L min-max in.	Quantity Box/Bag
*1830	G1/4"	0.33	0.59	0.33	0.53	800/100
*1831	G3/8"	0.45	0.67	0.35	0.55	300/100
*1832**	G1/2"	0.51	0.83	0.43	0.65	300/100

Metric thread M 1.5 pitch CEI EN 60423

Type Light Grey	P	Ø A in.	B Spanner in.	C in.	L min-max in.	Quantity Box/Bag
1835	M16x1.5	0.45	0.67	0.35	0.55	400/100
*1836**	M20x1.5	0.53	0.83	0.43	0.65	300/100

***Add to Ref: N for Black**



Blind entry bushes

Pg thread DIN 40 430 - Dimensions DIN 46 320

Type Light Grey	P	Ø A in.	B Spanner in.	C in.	L min-max in.	Quantity Box/Bag
*1702.5**	Pg13.5	–	0.83	0.43	0.67	300/100
1703.5	Pg16	–	0.91	0.49	0.73	200/100

BSP thread ISO 228/1

Type Light Grey	P	Ø A in.	B Spanner in.	C in.	L min-max in.	Quantity Box/Bag
*1861	G3/8"	–	0.67	0.35	0.55	600/100
*1862**	G1/2"	–	0.83	0.43	0.65	200/100

Metric thread M 1.5 pitch CEI EN 60423

Type Light Grey	P	Ø A in.	B Spanner in.	C in.	L min-max in.	Quantity Box/Bag
*1866**	M20x1.5	–	0.83	0.43	0.67	100

***Add to Ref: N for Black**

ENTRY PLUGS

Nickel Plated Brass

2053
2052

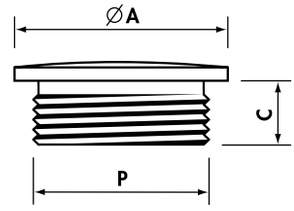
BRASS | 3µm NICKEL PLATED | IP54 | -13°F +212°F

Material: NICKEL PLATED BRASS (CuZn 40 Pb 3)
Protection: IP 54

Metric thread M 1.5 pitch CEI EN 60423

Type Nickel Plated Brass	P	ØA in.	C in.	Quantity Box/Bag
2053M12N	M12x1.5	0.55	0.20	*1,500/100*
2053M16N	M16x1.5	0.71	0.20	*1,000/100*
2053M20N	M20x1.5	0.87	0.26	*400/100*
2053M25N	M25x1.5	1.10	0.28	*200/100*
2053M32N	M32x1.5	1.38	0.31	*150/25*
2053M40N	M40x1.5	1.73	0.33	*100/25*
2053M50N	M50x1.5	2.13	0.35	*50/25*
2053M63N	M63x1.5	2.64	0.39	*25/25*

Pg thread DIN 40 430 - Dimensions DIN 46 320



Type Nickel Plated Brass	P	ØA in.	C in.	Quantity Box/Bag
2052007N	Pg 7	0.55	0.20	*1,500/100*
2052009N	Pg 9	0.67	0.24	*1,000/100*
2052011N	Pg11	0.79	0.24	*500/100*
2052013N	Pg13.5	0.87	0.26	*500/100*
2052016N	Pg16	0.94	0.26	*500/100*
2052021N	Pg21	1.18	0.28	*200/50*
2052029N	Pg29	1.54	0.31	*100/25*
2052036N	Pg36	1.97	0.35	*50/25*
2052042N	Pg42	2.24	0.39	*25/25*
2052048N	Pg48	2.52	0.39	*25/25*

ENTRY BUSHES

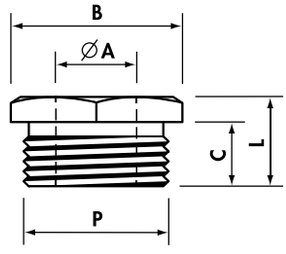
Brass

2021

BRASS | -13°F +212°F

Material: PLAIN BRASS

BSP thread ISO 228/1



Type Brass	P	ØA in.	B Spanner in.	C in.	L min-max in.	Quantity Box/Bag
2021014	G1/4″	0.39	0.51	0.24	0.33	*1,000/100*
2021038	G3/8″	0.47	0.67	0.30	0.41	*800/100*
2021012	G1/2″	0.63	0.83	0.37	0.51	*400/100*
2021058	G5/8″	0.71	0.91	0.39	0.53	*250/50*
2021034	G3/4″	0.83	1.06	0.39	0.55	*200/50*
2021100	G1″	1.04	1.34	0.43	0.61	*100/50*
2021118	G1″1/8	1.22	1.50	0.47	0.65	*100/25*
2021114	G1″1/4	1.38	1.65	0.51	0.71	*50/25*
2021112	G1″1/2	1.63	1.89	0.51	0.73	*50/25*
2021200	G2″	2.03	2.36	0.53	0.77	*25/25*

Add to Ref: N for NICKEL PLATED BRASS

CEMBRE

RS

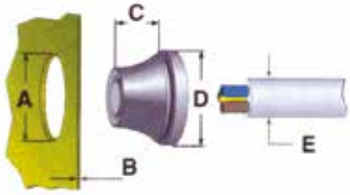
RUTASEAL GROMMETS

Rubber EPDM

HF HALOGEN FREE

EPDM | IP67 | -40°F +230°F

Material: Rubber EPDM halogen-free and chemical resistant
Temperature range:
–40°F to +230°F
Protection: IP 67
Color: RAL 7001 light grey
Application:
IP67 sealing of cables and conduits in Metric and Pg threaded entries through material thickness 0,5-4 mm



Fits Metric thread

Type	Fits Threaded Entry	A in.	B in.	C in.	D in.	E in.	Quantity Box/Bag
RS0407.M12	M12	0.49	0.02 - 0.08	0.22	0.79	0.16 - 0.28	*4,000/50*
RS0509.M16	M16	0.65	0.04 - 0.16	0.43	0.83	0.20 - 0.35	*4,000/50*
RS0813.M20	M20/Pg13.5	0.81	0.04 - 0.16	0.53	1.00	0.31 - 0.51	*2,000/50*
RS1117.M25	M25	1.00	0.04 - 0.16	0.60	1.20	0.43 - 0.67	*1,500/50*
RS1520.M32	M32	1.28	0.04 - 0.16	0.73	1.52	0.59 - 0.79	*750/25*
RS1928.M40	M40	1.59	0.04 - 0.16	0.85	1.91	0.75 -1.10	*400/25*
RS2735.M50	M50	1.99	0.04 - 0.16	0.98	2.38	1.06 - 1.38	*250/10*

Fits Pg thread

Type	Fits Threaded Entry	A in.	B in.	C in.	D in.	E in.	Quantity Box/Bag
RS0305.07	Pg 7	0.49	0.02 - 0.08	0.21	0.79	0.12 - 0.20	*4,000/50*
RS0507.09	Pg 9	0.63	0.04 - 0.16	0.41	0.83	0.20 - 0.28	*4,000/50*
RS0710.11	Pg11	0.75	0.04 - 0.16	0.50	0.94	0.28 - 0.39	*2,000/50*
RS1014.16	Pg16	0.91	0.04 - 0.16	0.58	1.10	0.39 - 0.55	*1,500/50*
RS1420.21	Pg21	1.14	0.04 - 0.16	0.69	1.38	0.55 - 0.79	*750/25*
RS2026.29	Pg29	1.50	0.04 - 0.16	0.79	1.81	0.79 - 1.02	*400/25*
RS2635.36	Pg36	1.89	0.04 - 0.16	0.94	2.28	1.02 - 1.38	*250/10*

3600

MODULAR RETAINING CLIPS

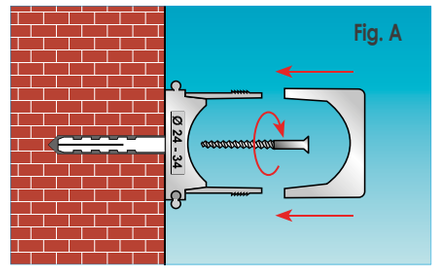
ABS

SICUR® clips

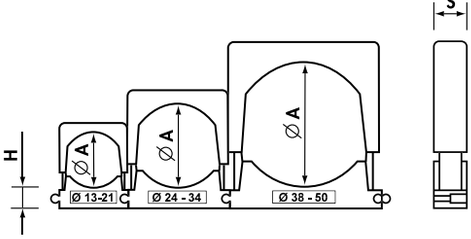
ABS | V0 UL94 | -4°F +176°F

Material: ABS self-extinguishing class V0 (UL94) UV stabilised
Glow wire resistance:
1382°F (CEI EN 60695-2-1)
Temperature range:
–4°F to +176°F (continuous)
Color: RAL 7035 light grey

Application: Fix SICURclip base to surface using dia. 0.197 - 0.236 in. screw (Ref. Fig. A).
Insert cable, tubing or flexible conduit.
Fit adjustable cover and press to secure.
Modular SICURclips of the same or different size may easily be joined together.



Type	Ø A min-max in.	H in.	S in.	Quantity
3601	0.51 - 0.83	0.33	0.63	*100*
3602	0.94 - 1.34	0.33	0.63	*50*
3603	1.5 - 1.97	0.33	0.63	*25*



MECHANICAL AND PNEUMATIC TOOLS

symbol description

professional mechanical tools - hydraulic bench press

Can be operated with one hand

Manual pressure release button

Ergonomically designed with a sculptured body for operator comfort

Lightweight and balanced for greater control

Dual-compound plastic handles
Greater safety and comfort in handling, thanks to the rubber inserts

Durable moulded body offering high resistance to wear and damage in all operating conditions

Extremely quiet in operation

Protected against accidental intrusions

Max cutting diameter

High hardness blades

Stainless steel blades

High tensile steel blades

Micro-serrated blades for anti-slip purpose

Special Steel frame for high resistance and a long life

symbol description

professional mechanical tools - hydraulic bench press

HEXAGONAL — Hexagonal crimp

RADIAL — Radial crimp

INDENT — Indent crimp

INDENT — Indent crimp

OVAL — Oval crimp

TRAPEZIUM — Trapezium crimp

RHOMBUS — Rhomboidal crimp

SQUARE — Square crimp

CE marking

UKCA marking

CEMBRE

CRIMPSTAR®

Manual tools, compact and easy to use, equipped with:

- treated steel crimp jaws with high mechanical properties.
- factory-set ratchet for crimping control (automatic handle opening upon completion of crimping operation).
- Emergency release lever which, if necessary, opens the crimp jaws before their complete closure.
- Ergonomically designed non-slip moulded plastic grips.
- **Upon request: all Crimpstar tools can be supplied with a cetificate of calibration**

HP1

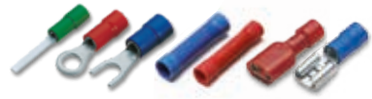
MECHANICAL TOOLS CRIMPSTAR® RANGE

for insulated terminals and connectors

Crimpstar®

File no. E125401

The tool HP1 provide cUL® and UL® certified compression when used with CEMBRE VP.



ERGONOMIC · BI-COMPONENT · ONE HAND · MANUAL RELEASE · BALANCED · DURABLE · RADIAL

TECHNICAL FEATURES:

Crimping Range	*PVC, PC and PA6.6 insulated terminals and connectors for conductor sizes 24 to 13 AWG*
Dimensions in.	
Length	*9.2*
Width	*2.8*
Height	*0.7*
Weight lbs.	*1.13*
Package Dimensions	*9.4 x 3.2 x 1.0*

HP5

MECHANICAL TOOLS CRIMPSTAR® RANGE

for insulated terminals and connectors

Crimpstar®

File no. E125401

File no. E212000

The tool HP5 provide cUL® and UL® certified compression when used with CEMBRE RF, BF, GF, RF-F/M/FM, BF-F/M/FM, GF-F/M, RP, BP, GP, PL.

NEW · ERGONOMIC · BI-COMPONENT · ONE HAND · MANUAL RELEASE · BALANCED · DURABLE · RADIAL

TECHNICAL FEATURES

Crimping Range	*PVC, PC and PA6.6 insulated terminals and connectors for conductor sizes 20 to 10 AWG (for both right and left handed operators)*
Dimensions in.	
Length	*9.2*
Width	*2.8*
Height	*0.7*
Weight lbs.	*1.14*
Package Dimensions	*9.4 x 3.2 x 1.0*

MECHANICAL TOOLS CRIMPSTAR® RANGE

HP3
HP3-1

for insulated terminals and connectors

Crimpstar®

HP3-1 version with positioner for PVC, PC and PA6.6 insulated terminals and connectors

ERGONOMIC · BI-COMPONENT · ONE HAND · MANUAL RELEASE · BALANCED · DURABLE · INDENT

TECHNICAL FEATURES

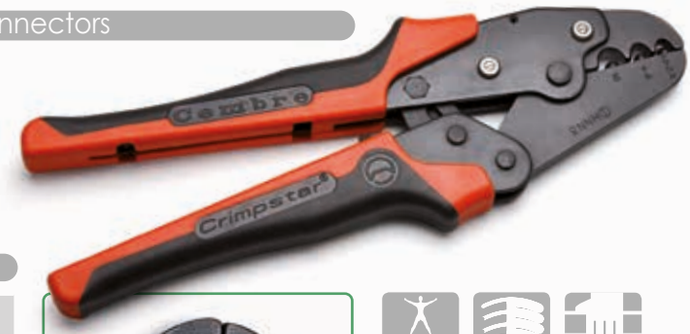
Crimping Range HP3, HP3-1	*PVC, PC and PA6.6 insulated terminals and connectors for conductor sizes 23 to 10 AWG*
Dimensions in.	
Length	*9.2*
Width	*2.8*
Height	*0.7*
Weight lbs.	*1.14*
Package Dimensions	*9.4 x 3.2 x 1.0*

MECHANICAL TOOLS CRIMPSTAR® RANGE

HNN3

for insulated terminals and connectors

Crimpstar®



ERGONOMIC · BI-COMPONENT · ONE HAND · MANUAL RELEASE · BALANCED · DURABLE · INDENT

TECHNICAL FEATURES

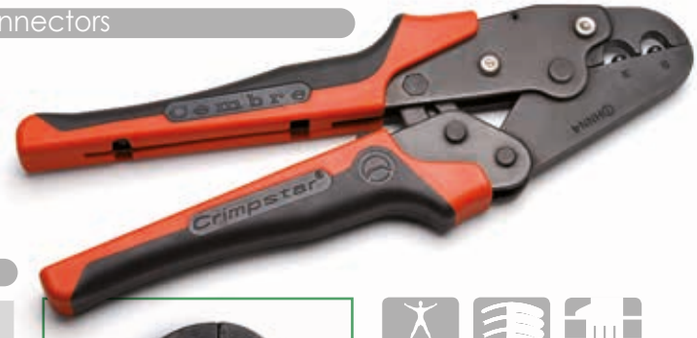
Crimping Range	*PA6.6 insulated terminals and connectors for conductor sizes 16 to 8 AWG*
Dimensions in.	
Length	*9.2*
Width	*2.8*
Height	*0.7*
Weight lbs.	*1.08*
Package Dimensions	*9.4 x 3.2 x 1.0*

MECHANICAL TOOLS CRIMPSTAR® RANGE

HNN4

for insulated terminals and connectors

Crimpstar®



ERGONOMIC · BI-COMPONENT · ONE HAND · MANUAL RELEASE · BALANCED · DURABLE · INDENT

TECHNICAL FEATURES

Crimping Range	*PA6.6 insulated terminals and connectors for conductor sizes 8 to 6 AWG*
Dimensions in.	
Length	*9.2*
Width	*2.8*
Height	*0.7*
Weight lbs.	*1.08*
Package Dimensions	*9.4 x 3.2 x 1.0*

HPH1

MECHANICAL TOOLS CRIMPSTAR® RANGE

for through connectors PE HD insulated, heat shrinkable

Upon request: all Crimpstar tools can be supplied with a cetificate of calibration

Crimpstar®

ERGONOMIC · BI-COMPONENT · ONE HAND · MANUAL RELEASE · BALANCED · DURABLE · RADIAL

Manual tool, compact and easy to use, equipped with:

- treated steel crimp jaws with high mechanical properties.
- factory-set ratchet for crimping control (automatic handle opening upon completion of crimping operation).
- Emergency release lever which, if necessary, opens the crimp jaws before their complete closure.
- Ergonomically designed non-slip moulded plastic grips.

TECHNICAL FEATURES

Crimping Range	*Through connectors PE HD insulated, heat shrinkable for conductor sizes 20 to 10 AWG and NL-M, NL-P connectors PA6.6 insulated for conductor sizes 22 to 10 AWG*
Dimensions in.	
Length	*9.2*
Width	*2.8*
Height	*0.7*
Weight lbs.	*1.13*
Package Dimensions	*9.4 x 3.2 x 1.0*

HNKE4

MECHANICAL TOOLS CRIMPSTAR® RANGE

for end sleeves

Crimpstar®

ERGONOMIC · BI-COMPONENT · ONE HAND · MANUAL RELEASE · BALANCED · DURABLE · TRAPEZIUM

Manual tool, compact and easy to use, equipped with:

- treated steel crimp jaws with high mechanical properties.
- factory-set ratchet for crimping control (automatic handle opening upon completion of crimping operation).
- Emergency release lever which, if necessary, opens the crimp jaws before their complete closure.
- Ergonomically designed non-slip moulded plastic grips.

TECHNICAL FEATURES

Crimping Range	*End sleeves for conductor sizes 20 to 12 AWG*
Dimensions in.	
Length	*9.3*
Width	*2.8*
Height	*0.7*
Weight lbs.	*1.14*
Package Dimensions	*9.4 x 3.2 x 1.0*

MECHANICAL TOOLS CRIMPSTAR® RANGE

HNKE16

for end sleeves

Crimpstar®

Upon request: all Crimpstar tools can be supplied with a cetificate of calibration

TECHNICAL FEATURES

Crimping Range	*End sleeves for conductor sizes 12 to 6 AWG*
Dimensions in.	
Length	*9.3*
Width	*2.8*
Height	*0.7*
Weight lbs.	*1.08*
Package Dimensions	*9.4 x 3.2 x 1.0*

ERGONOMIC · BI-COMPONENT · ONE HAND · MANUAL RELEASE · BALANCED · DURABLE · TRAPEZIUM

Manual tool, compact and easy to use, equipped with:

- treated steel crimp jaws with high mechanical properties.
- factory-set ratchet for crimping control (automatic handle opening upon completion of crimping operation).
- Emergency release lever which, if necessary, opens the crimp jaws before their complete closure.
- Ergonomically designed non-slip moulded plastic grips.

MECHANICAL TOOLS CRIMPSTAR® RANGE

HNKE50

for end sleeves

Crimpstar®

TECHNICAL FEATURES

Crimping Range	*End sleeves for conductor sizes 3 - 2 - 1/0 AWG*
Dimensions in.	
Length	*9.2*
Width	*2.8*
Height	*0.7*
Weight lbs.	*1.30*
Package Dimensions	*9.4 x 3.2 x 1.0*

ERGONOMIC · BI-COMPONENT · ONE HAND · MANUAL RELEASE · BALANCED · DURABLE · TRAPEZIUM

Manual tool, compact and easy to use, equipped with:

- treated steel crimp jaws with high mechanical properties.
- factory-set ratchet for crimping control (automatic handle opening upon completion of crimping operation).
- Emergency release lever which, if necessary, opens the crimp jaws before their complete closure.
- Ergonomically designed non-slip moulded plastic grips.

HN1

MECHANICAL TOOLS CRIMPSTAR® RANGE

for uninsulated terminals and connectors

Upon request: all Crimpstar tools can be supplied with a cetificate of calibration

Crimpstar®

ERGONOMIC | BI-COMPONENT | ONE HAND | MANUAL RELEASE | BALANCED | DURABLE | INDENT

Manual tool, compact and easy to use, equipped with:

- treated steel crimp jaws with high mechanical properties.
- factory-set ratchet for crimping control (automatic handle opening upon completion of crimping operation).
- Emergency release lever which, if necessary, opens the crimp jaws before their complete closure.
- Ergonomically designed non-slip moulded plastic grips.

TECHNICAL FEATURES

Crimping Range	*Uninsulated terminals and connectors for conductor sizes 22 to 8 AWG*
Dimensions in.	
Length	*9.2*
Width	*2.8*
Height	*0.7*
Weight lbs.	*1.06*
Package Dimensions	*9.4 x 3.2 x 1.0*

HN5

MECHANICAL TOOLS CRIMPSTAR® RANGE

for uninsulated terminals and connectors

Crimpstar®

ERGONOMIC | BI-COMPONENT | ONE HAND | MANUAL RELEASE | BALANCED | DURABLE | INDENT

Manual tool, compact and easy to use, equipped with:

- treated steel crimp jaws with high mechanical properties.
- factory-set ratchet for crimping control (automatic handle opening upon completion of crimping operation).
- Emergency release lever which, if necessary, opens the crimp jaws before their complete closure.
- Ergonomically designed non-slip moulded plastic grips.

TECHNICAL FEATURES

Crimping Range	*Uninsulated terminals and connectors for conductor sizes 8 to 6 AWG*
Dimensions in.	
Length	*9.2*
Width	*2.8*
Height	*0.7*
Weight lbs.	*1.08*
Package Dimensions	*9.4 x 3.2 x 1.0*

MECHANICAL TOOLS CRIMPSTAR® RANGE

HN-A25

for uninsulated terminals and connectors A-M, L-M and L-P series

Crimpstar®

HN-D25

for Cu tube lugs DR (DIN 46235) and through connectors DSV (DIN 46267)

Crimpstar®

HN-H25

for Cu tube lugs HR and through connectors HSV

Crimpstar®

HN-T25

for Cu tube lugs T-M, T-L and through connectors L-T

Crimpstar®

HN-A25 TECHNICAL FEATURES:

Crimping Range	*Uninsulated terminals and connectors A-M, L-M and L-P series for conductor sizes 8 to 4 AWG*

HN-D25 TECHNICAL FEATURES:

Crimping Range	*Cu tube lugs DR (DIN 46235) and through connectors DSV (DIN 46267) for conductor sizes 8 to 4 AWG*

HN-H25 TECHNICAL FEATURES:

Crimping Range	*Cu tube lugs HR and through connectors HSV for conductor sizes 8 to 4 AWG*

HN-T25 TECHNICAL FEATURES:

Crimping Range	*Cu tube lugs T-M, T-L and through connectors L-T for conductor sizes 8 to 4 AWG*

Dimensions in.	
Length	*9.0*
Width	*3.1*
Height	*0.7*
Weight lbs.	*1.10*
Package Dimensions	*9.4 x 3.2 x 1.0*

HF1

MECHANICAL TOOLS CRIMPSTAR® RANGE

for open barrel brass terminals

Upon request: all Crimpstar tools can be supplied with a cetificate of calibration

Crimpstar®

ERGONOMIC · BI-COMPONENT · ONE HAND · MANUAL RELEASE · BALANCED · DURABLE · INDENT

Manual tool, compact and easy to use, equipped with:

- treated steel crimp jaws with high mechanical properties.
- factory-set ratchet for crimping control (automatic handle opening upon completion of crimping operation).
- Emergency release lever which, if necessary, opens the crimp jaws before their complete closure.
- Ergonomically designed non-slip moulded plastic grips.

TECHNICAL FEATURES

Crimping Range	*Open barrel brass terminals for conductors sizes 20 to 12 AWG (not BN-FAB/FAR type)*
Dimensions in.	
Length	*9.2*
Width	*2.8*
Height	*0.7*
Weight lbs.	*1.12*
Package Dimensions	*9.4 x 3.2 x 1.0*

HF2

MECHANICAL TOOLS CRIMPSTAR® RANGE

for open barrel brass terminals

Crimpstar®

ERGONOMIC · BI-COMPONENT · ONE HAND · MANUAL RELEASE · BALANCED · DURABLE · INDENT

Manual tool, compact and easy to use, equipped with:

- treated steel crimp jaws with high mechanical properties.
- factory-set ratchet for crimping control (automatic handle opening upon completion of crimping operation).
- Emergency release lever which, if necessary, opens the crimp jaws before their complete closure.
- Ergonomically designed non-slip moulded plastic grips.

TECHNICAL FEATURES

Crimping Range	*Open barrel brass terminals for conductors sizes 28 to 16 AWG*
Dimensions in.	
Length	*9.2*
Width	*2.8*
Height	*0.7*
Weight lbs.	*1.09*
Package Dimensions	*9.4 x 3.2 x 1.0*

HX1

for coaxial connectors

Crimpstar®

Upon request: all Crimpstar tools can be supplied with a cetificate of calibration

TECHNICAL FEATURES

Crimping Range	*Coaxial connectors type RG58, RG59, RG62 and RG 71*
Dimensions in.	
Length	*9.2*
Width	*2.8*
Height	*0.7*
Weight lbs.	*1.06*
Package Dimensions	*9.4 x 3.2 x 1.0*

Manual tool, compact and easy to use, equipped with:

- treated steel crimp jaws with high mechanical properties.
- factory-set ratchet for crimping control (automatic handle opening upon completion of crimping operation).
- Emergency release lever which, if necessary, opens the crimp jaws before their complete closure.
- Ergonomically designed non-slip moulded plastic grips.

CEMBRE

ERGONOMIC | BI-COMPONENT | ONE HAND | MANUAL RELEASE | BALANCED | DURABLE

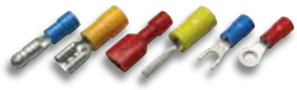
MLRJ1

TECHNICAL FEATURES

Crimping Range	*For crimping plugs RJ 11; RJ 12; RJ 14; RJ 22; RJ 45. With cutting and wire-stripping blades*
Dimensions in.	
Length	*8.3*
Width	*2.9*
Height	*0.9*
Weight lbs.	*1.16*

MLL1

RADIAL



TECHNICAL FEATURES

Crimping Range	*For crimping insulated terminals, 22 to 10 AWG side insertion*
Dimensions in.	
Length	*9.9*
Width	*3.1*
Height	*0.9*
Weight lbs	*1.2*

MLL90

INDENT

TECHNICAL FEATURES

Crimping Range	*Single aperture, ratchet controlled tool for crimping female connectors, open barrel, flag type 17 to 14 AWG - side insertion*
Dimensions in.	
Length	*9.9*
Width	*3.1*
Height	*0.9*
Weight lbs	*1.2*

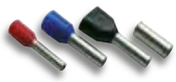
ERGONOMIC ONE HAND BALANCED DURABLE

MLS1

TRAPEZIUM

TECHNICAL FEATURES

Crimping Range	*For crimping end sleeves 22 to 10 AWG*
Dimensions in.	
Length	*7.8*
Width	*3.0*
Height	*0.7*
Weight lbs	*0.8*



MLS2

TRAPEZIUM

TECHNICAL FEATURES

Crimping Range	*For crimping end sleeves 10 to 6 AWG*
Dimensions in.	
Length	*7.8*
Width	*3.0*
Height	*0.7*
Weight lbs	*0.8*

ZP2

TECHNICAL FEATURES

Crimping Range	*For crimping insulated and uninsulated connectors, 23 to 10 AWG*
Dimensions in.	
Length	*9.2*
Width	*2.6*
Height	*0.6*
Weight lbs	*0.5*

ND

MECHANICAL TOOLS ND® RANGE

for insulated and uninsulated end sleeves

ERGONOMIC · ONE HAND · BALANCED · DURABLE · TRAPEZIUM

A generation of tools, with a unique mechanism to reduce operator effort. Small and compact, with ergonomically designed handles for ease of operation.

High quality materials combined with advanced design and manufacturing technology, produce a reliable tool with a guaranteed consistent, crimping operation.

nd®

ND1

TECHNICAL FEATURES

Crimping Range	*Insulated and uninsulated end sleeves for conductors sizes 22 to 15 AWG*
Dimensions in.	
Length	*7.5*
Width	*2.8*
Height	*0.8*
Weight lbs.	*1.04*

ND2

TECHNICAL FEATURES

Crimping Range	*Insulated and uninsulated end sleeves for conductors sizes 17 to 10 AWG*
Dimensions in.	
Length	*7.5*
Width	*2.8*
Height	*0.8*
Weight lbs.	*1.04*

ND3

TECHNICAL FEATURES

Crimping Range	*Insulated and uninsulated end sleeves for conductors sizes 10 to 5 AWG*
Dimensions in.	
Length	*7.5*
Width	*2.8*
Height	*0.8*
Weight lbs.	*1.04*

ND4

TECHNICAL FEATURES

Crimping Range	*Insulated and uninsulated end sleeves for conductors sizes 20 to 11 AWG*
Dimensions in.	
Length	*7.5*
Width	*2.8*
Height	*0.8*
Weight lbs.	*1.04*

Package Dimensions in.	*7.7 x 3.0 x 0.8 in.*

MECHANICAL TOOLS ZKE RANGE

ZKE

for insulated and uninsulated end sleeves

CERTIFIED
SAFETY US-CA
E481745

The ZKE610N and ZKE616N pliers provide cUL® and UL® certified compression when used with CEMBRE PKE, PKC, PKD and PKT end sleeves.

ERGONOMIC · ONE HAND · BALANCED · DURABLE

ZKE610N

NEW

SQUARE

TECHNICAL FEATURES

Crimping Range	*Single aperture, ratchet controlled tool for crimping end sleeves, 27 to 7 AWG side insertion*
Dimensions in.	
Length	*7.2*
Width	*3.1*
Height	*1.0*
Weight lbs.	*0.83*

ZKE616N

NEW

SQUARE

TECHNICAL FEATURES

Crimping Range	*Single aperture, ratchet controlled tool for crimping end sleeves, 27 to 5 AWG side insertion*
Dimensions in.	
Length	*7.2*
Width	*3.1*
Height	*1.2*
Weight lbs.	*0.84*

ZKE6-F

RHOMBUS

TECHNICAL FEATURES

Crimping Range	*Tool for crimping end sleeves 20 to 10 AWG front insertion*
Dimensions in.	
Length	*7.87*
Width	*3.15*
Height	*0.79*
Weight lbs.	*0.82*

ZKE2

INDENT

TECHNICAL FEATURES

Crimping Range	*For end sleeves 20 to 6 AWG*
Dimensions in.	
Length	*7.48*
Width	*2.4*
Height	*0.43*
Weight lbs.	*0.53*

HP4-R

MECHANICAL TOOLS HP4 RANGE

for insulated terminals and connectors

The tool HP4-R provide cUL® and UL® certified compression when used with CEMBRE RF, RF-F/M/FM, RP, PL03-M.

ERGONOMIC · ONE HAND · BALANCED · DURABLE · RADIAL

TECHNICAL FEATURES

Crimping Range	*PVC, PC and PA6.6 insulated terminals and connectors for conductor sizes 23 to 15 AWG*
Dimensions in.	
Length	*10.4*
Width	*3.1*
Height	*0.94*
Weight lbs.	*1.1*
Package Dimensions in.	*13.0 x 4.3 x 2.0*

Professional manual mechanical tool with ratchet mechanism that prevents the handles from opening again before reaching the ratchet. Equipped with a positioning device to reduce the operator's effort and facilitate proper crimping of the conductor.

According to the different thicknesses of the conductor insulation, the crimping on the insulation can be carried out by adjusting the jaws through three different settings:
1) strong, 2) medium, 3) light.
The tool is particularly easy to use thanks to its shape and handle coating.

At the end of the crimping the outer surface of the conductor is automatically stamped with the following crimping code:
one point for red conductor sizes from 23 to 15 AWG

Construction features:
- Special treated and externally protected steel body, ratchet and handles.
- Handle coating in soft red PVC plastic.

HP4-B

MECHANICAL TOOLS HP4 RANGE

for insulated terminals and connectors

The tool HP4-B provide cUL® and UL® certified compression when used with CEMBRE BF, BF-F/M/FM, BP, PL06-M.

ERGONOMIC · ONE HAND · BALANCED · DURABLE · RADIAL

TECHNICAL FEATURES

Crimping Range	*PVC, PC and PA6.6 insulated terminals and connectors for conductor sizes 15 to 13 AWG*
Dimensions in.	
Length	*10.4*
Width	*3.1*
Height	*0.94*
Weight lbs.	*1.1*
Package Dimensions in.	*13.0 x 4.3 x 2.0*

Professional manual mechanical tool with ratchet mechanism that prevents the handles from opening again before reaching the ratchet. Equipped with a positioning device to reduce the operator's effort and facilitate proper crimping of the conductor.

According to the different thicknesses of the conductor insulation, the crimping on the insulation can be carried out by adjusting the jaws through three different settings:
1) strong, 2) medium, 3) light.
The tool is particularly easy to use thanks to its shape and handle coating.

At the end of the crimping the outer surface of the conductor is automatically stamped with the following crimping code:
two points for blue conductor sizes from 15 to 13 AWG

Construction features:
- Special treated and externally protected steel body, ratchet and handles.
- Handle coating in soft blue PVC plastic.

MECHANICAL TOOLS HP4 RANGE

HP4-G

for insulated terminals and connectors

File no. E125401

File no. E212000

The tool HP4-G provide cUL® and UL® certified compression when used with CEMBRE GF, GF-F/M/FM, GP, PL1-M.

TECHNICAL FEATURES

Crimping Range	*PVC, PC and PA6.6 insulated terminals and connectors for conductor sizes 11 to 10 AWG*
Dimensions in.	
Length	*12.6*
Width	*4.1*
Height	*0.98*
Weight lbs.	*1.8*
Package Dimensions in.	*13.0 x 4.3 x 2.0*

ERGONOMIC · ONE HAND · BALANCED · DURABLE · RADIAL

Professional manual mechanical tool with ratchet mechanism that prevents the handles from opening again before reaching the ratchet. Equipped with a positioning device to reduce the operator's effort and facilitate proper crimping of the conductor.

According to the different thicknesses of the conductor insulation, the crimping on the insulation can be carried out by adjusting the jaws through three different settings:
1) strong, 2) medium, 3) light.
The tool is particularly easy to use thanks to its shape and handle coating.

At the end of the crimping the outer surface of the conductor is automatically stamped with the following crimping code:
three points for yellow conductor from 11 to 10 AWG

Construction features:
- Special treated and externally protected steel body, ratchet and handles.
- Handle coating in soft yellow PVC plastic.

MECHANICAL TOOLS HP4 RANGE

HP4-C10

for sleeve connectors

TECHNICAL FEATURES

Crimping Range	*For sleeve connectors type C6-C6 and C10-C10*
Dimensions in.	
Length	*12.8*
Width	*4.1*
Height	*0.83*
Weight lbs.	*1.6*
Package Dimensions in.	*13.0 x 4.3 x 2.0*

ERGONOMIC · ONE HAND · BALANCED · DURABLE · OVAL

Professional manual mechanical tool with ratchet mechanism that prevents the handles from opening again before reaching the ratchet. The tool is particularly easy to use thanks to its shape and handle coating.

Construction features:
- Special treated and externally protected steel body, ratchet and handles.
- Handle coating in soft yellow PVC plastic.

HWE1N

MECHANICAL TOOL HWE1N

with interchangeable dies

NEW · ERGONOMIC · BI-COMPONENT · ONE HAND · MANUAL RELEASE · BALANCED · DURABLE

TECHNICAL FEATURES

Dimensions in.	
Length	*9.45*
Width	*3.1*
Height	*1.28*
Weight lbs.	*1.3*

A robust and reliable tool designed to optimise the installers time and effort. A single tool body with a range of interchangeable dies allows a quick and simple transfer from one cable/connector combination to another, across a range of applications.

N.B .: the tool is supplied without dies, for their choice consult the table on the side.

TECHNICAL FEATURES:

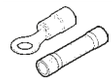
- Automatic opening of handles following completion of the crimping operation
- Dull Nickel finish
- Anti-slip handle grips

VALSTAR-N5 - KIT AVAILABLE ON REQUEST

VALSTAR-N5
comprising:

- **HWE1N** Manual mechanical tool
- **KE16-WE** die
- **RBY-WE** die
- all contained in a sturdy plastic case with extra compartments for interchangeable dies

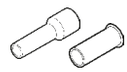
INTERCHANGEABLE DIES TO ORDER SEPARATELY



INSULATED CONNECTORS RED, BLUE AND YELLOW

RBY-WE

Size 20 ÷ 10 AWG



INSULATED AND UNINSULATED END SLEEVES

KE6-WE

Size 20 ÷ 10 AWG

KE16-WE

Size 20 ÷ 6 AWG

KE35-WE

Size 6 ÷ 2 AWG

CONNECTORS WITH HEAT SHRINKABLE INSULATION

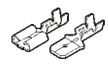
WLM-WE

Size 20÷10 AWG

UNINSULATED CABLE LUGS

N10-WE

Size 20÷8 AWG



OPEN BARREL BRASS CONNECTORS

F050-WE

Size 28 and 20 AWG

F075-WE

Size 30 and 18 AWG

F2.5-WE

Size 20 and 14 AWG

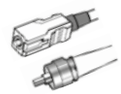
PHOTOVOLTAIC CONNECTORS (MULTI-CONTACT)

MC3-WE

Size 12 ÷ 10 AWG

MC4-WE

Size 12 ÷ 10 AWG



FIBER OPTIC CONNECTOR

ST-WE

SMA, SMB, SFR, ST, SC

SMA-WE

SMA

COAXIAL CONNECTORS

RG71-WE

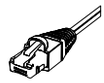
RG58, RG59, RG62

RG174-WE

RG58, RG174

RG179-WE

RG174, RG179



SHIELDED WE CONNECTOR

RJ45-WE

RJ45

MECHANICAL TOOL IDT

with modular interchangeable dies

Dies for photovoltaic connectors

4300-3541
Tyco Solarlok

4300-3539
MC4 Multi Contact

4300-3540
MC3 Multi Contact

See page 156 for HB11 cable stripper

ERGONOMIC · ONE HAND · BALANCED · DURABLE

A robust and reliable tool designed to optimise the installers time and effort.
A single tool body with a range of interchangeable dies allows a quick and simple transfer from one cable/connector combination to another, across a wide range of applications.
Modular dies may be inserted/extracted without using any tools and are connected in pairs for speed and convenience.
To assist correct die selection, the type of connector is illustrated on each die. Each die also carries an illustration of the steps in each crimping process, to assist in achieving the best result.

VALSTAR-R3/IDT
To order separately - sturdy plastic case designed to store an IDT tool and up to 10 modular dies.

TECHNICAL FEATURES

Dimensions in.	
Length	*9.21*
Width	*2.5*
Height	*0.9*
Weight lbs.	*1.0*

INTERCHANGEABLE DIES TO ORDER SEPARATELY

INSULATED CONNECTORS RED, BLUE, YELLOW and GREEN

4300-3129	***4300-3128***
Size 20 ÷ 14 AWG (Red - Blue)	*Size 12 ÷ 10 AWG (Yellow)* *Size 26 ÷ 21 AWG (Green)*

CONNECTORS WITH HEAT SHRINKABLE INSULATION

4300-3258	***4300-3262***
Size 20 ÷ 14 AWG (Red - Blue)	*Size 12 ÷ 10 AWG (Yellow)* *Size 22 ÷ 18 AWG (Green)*

UNINSULATED CONNECTORS

4300-3137	***4300-3241***
Size 18 ÷ 14 AWG	*Size 12 ÷ 8 AWG*

CONTACTS FOR MULTI POLAR CONNECTORS (eg. ILME, HTS, CONTACT)

4300-3147	***4300-3148***
Size 26 ÷ 12 AWG	*Size 10 ÷ 8 AWG*

INSULATED AND UNINSULATED END SLEEVES

4300-3127	***4300-3153***	***4300-3154***
Size 22 ÷ 8 AWG	*Size 6 ÷ 4 AWG*	*Size 2 ÷ 1/0 AWG*

OPEN BARREL CONNECTORS

4300-3146
Size 20 ÷ 10 AWG

BNC/TNC CONNECTORS FOR COAXIAL CABLES

4300-3136	***4300-3140***
RG 58, 59, 62, 71	*RG 174, 179*

TV - SATELLITE RECEIVER CONNECTORS

4300-3138
RG 6, 59

PHONE CONNECTORS

4300-3144	***4300-3132***
RJ 45 (LARGE)	*RJ 11 (SMALL)*

PHOTOVOLTAIC CONNECTORS (MULTI-CONTACT)

4300-3540	***4300-3539***	***4300-3541***
MC3	*MC4*	*Tyco Solarlok*
Size 14 - 12/10 AWG	*Size 14 - 12/10 AWG*	*Size 14 - 12/10 AWG*

Modular die storage housings are easily combined for convenient transportation

Modular die pack

CEMBRE

TN70SEY
TN120SEY

MECHANICAL TOOLS TN RANGE

for uninsulated terminals and connectors

A-M SERIES

DURABLE INDENT

Professional manual mechanical tool suitable for crimping A-M Cu lugs and non-insulated L-M and L-P connectors.
Heat treated steel crimp jaws.
Easily adjustable die positioning by knurled screw and reference vernier scale.
Handles made from anti-slip plastic with hilt.

TECHNICAL FEATURES

Crimping Range TN70SEY	*Uninsulated terminals and connectors for conductor sizes 10 to 2/0 AWG*
Dimensions in.	
Length	*17.7*
Width	*5.0*
Height	*1.9*
Weight lbs.	*4.4*

TECHNICAL FEATURES

Crimping Range TN120SEY	*Uninsulated terminals and connectors for conductor sizes 8 to 300 AWG*
Dimensions in.	
Length	*27.5*
Width	*6.7*
Height	*1.9*
Weight lbs.	*6.6*

TNN70
TNN120

MECHANICAL TOOLS TN RANGE

for insulated terminals and connectors

ANE SERIES

DURABLE INDENT

Professional manual mechanical tool suitable for the crimping of wire terminals and PA 6.6 insulated connectors.
Heat treated steel crimp jaws.
Easily adjustable die positioning by knurled screw and reference vernier scale.
Handles made from anti-slip plastic with hilt.

TECHNICAL FEATURES

Crimping Range TNN70	*Polyamide PA6.6 insulated terminals and connectors for conductor sizes 8 to 2/0 AWG*
Dimensions in.	
Length	*17.7*
Width	*5.0*
Height	*1.9*
Weight lbs.	*4.4*

TECHNICAL FEATURES

Crimping Range TNN120	*Polyamide PA6.6 insulated terminals and connectors for conductor sizes 8 to 300 AWG*
Dimensions in.	
Length	*27.5*
Width	*6.7*
Height	*1.9*
Weight lbs.	*6.6*

MECHANICAL TOOLS TNE RANGE

TNE-A50

for uninsulated terminals and connectors

A-M SERIES

NEW DURABLE HEXAGONAL

TECHNICAL FEATURES

Crimping Range	*Uninsulated terminals and connectors A-M, L-M and L-P series for conductor sizes 10 to 1/0 AWG*
Dimensions in.	
Length	*15.2*
Width	*3.7*
Height	*1.59*
Weight lbs.	*3.2*

Mechanical tools equipped with rotating dies with hexagonal imprint, suitable for crimping A-M Cu lugs and non-insulated L-M and L-P connectors.
Particularly sturdy and easy to handle.

MECHANICAL TOOLS TNE RANGE

TNE-A120

for uninsulated terminals and connectors

A-M SERIES

NEW DURABLE HEXAGONAL

TECHNICAL FEATURES

Crimping Range	*Uninsulated terminals and connectors A-M, L-M and L-P series for conductor sizes 8 to 250 AWG*
Dimensions in.	
Length	*25.6*
Width	*6.0*
Height	*2.1*
Weight lbs.	*8.4*

Mechanical tools equipped with rotating dies with hexagonal imprint, suitable for crimping A-M Cu lugs and non-insulated L-M and L-P connectors.
Particularly sturdy and easy to handle.

TNE-D50

MECHANICAL TOOLS TNE RANGE

for uninsulated terminals and connectors according to DIN 46235 and DIN 46267 T.1

DR SERIES

NEW DURABLE HEXAGONAL

Mechanical tools equipped with rotating dies with hexagonal imprint compliant with DIN 480863 suitable to crimp Copper lugs according to DIN 46235 and through connectors according to DIN 46267 T.1 (refer to page 48-49), particularly sturdy and easy to handle.

TECHNICAL FEATURES

Crimping Range	*Uninsulated terminals and connectors according to DIN 46235 and DIN 46267 T.1 for conductor sizes 10 to 1/0 AWG*
Dimensions in.	
Length	*15.2*
Width	*3.7*
Height	*1.59*
Weight lbs.	*3.2*

TNE-D120

MECHANICAL TOOLS TNE RANGE

for uninsulated terminals and connectors according to DIN 46235 and DIN 46267 T.1

DR SERIES

NEW DURABLE HEXAGONAL

Mechanical tools equipped with rotating dies with hexagonal imprint compliant with DIN 480863 suitable to crimp Copper lugs according to DIN 46235 and through connectors according to DIN 46267 T.1 (refer to page 48-49), particularly sturdy and easy to handle.

TECHNICAL FEATURES

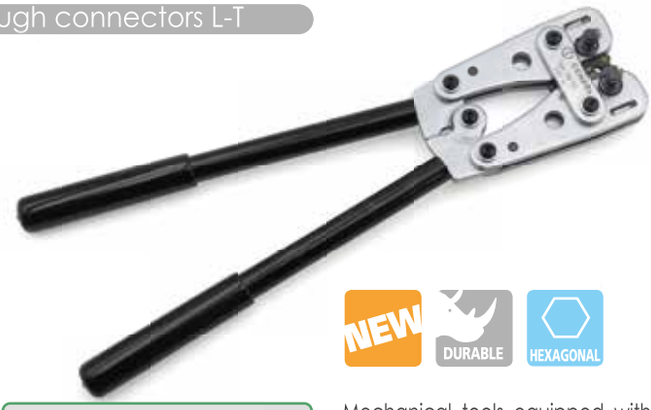
Crimping Range	*Uninsulated terminals and connectors according to DIN 46235 and DIN 46267 T.1 for conductor sizes 8 to 250 AWG*
Dimensions in.	
Length	*25.6*
Width	*6.0*
Height	*2.1*
Weight lbs.	*8.4*

MECHANICAL TOOLS TNE RANGE

TNE-T50

for Cu tube lugs T-M (NFC 20-130), T-L and through connectors L-T

T-M
SERIES



NEW DURABLE HEXAGONAL

TECHNICAL FEATURES

Crimping Range	*for Cu tube lugs T-M (NFC 20-130), T-L and through connectors L-T for conductor sizes 10 to 1/0 AWG*
Dimensions in.	
Length	*15.2*
Width	*3.7*
Height	*1.59*
Weight lbs.	*3.2*

Mechanical tools equipped with rotating dies with hexagonal imprint, suitable to crimp Copper lugs T-M series according to (NFC 20-130), T-L and and through connectors L-T (refer to page 50-51), particularly sturdy and easy to handle.

MECHANICAL TOOLS TNE RANGE

TNE-T120

for Cu tube lugs T-M (NFC 20-130), T-L and through connectors L-T

T-M
SERIES

NEW DURABLE HEXAGONAL

TECHNICAL FEATURES

Crimping Range	*for Cu tube lugs T-M (NFC 20-130), T-L and through connectors L-T for conductor sizes 8 to 250 AWG*
Dimensions in.	
Length	*25.6*
Width	*6.0*
Height	*2.1*
Weight lbs.	*8.4*

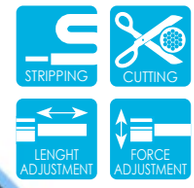
Mechanical tools equipped with rotating dies with hexagonal imprint, suitable to crimp Copper lugs T-M series according to (NFC 20-130), T-L and and through connectors L-T (refer to page 50-51), particularly sturdy and easy to handle.

HB14

WIRE STRIPPERS HB RANGE

for insulated cables

Automatic wire stripper HB14
Automatic stripping force adjustment according to the cable section; the stripping force can be manually adjusted even for very soft or tough insulation for cables from 24 to 10 AWG.
Stripping length adjustable from 0.24 to 0.71 in.
Conductor cut from 24 to 14 AWG.

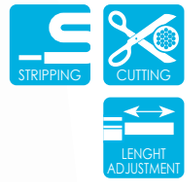


TECHNICAL FEATURES

Dimensions in.	
Length	*7.9*
Width	*6.5*
Height	*1.1*
Weight lbs	*0.16*

HB15

Automatic wire stripper HB15
Automatic stripping force adjustment according to the cable section.
For cables from 24 to 10 AWG.
Stripping length adjustable from 0.24 to 0.59 in.
Conductor cut from 24 to 14 AWG.



TECHNICAL FEATURES

Dimensions in.	
Length	*6.4*
Width	*5.4*
Height	*1.1*
Weight lbs	*0.09*

HB6

Wire strippers,
including stripping die for PVC
insulated cables from 34 to 8 AWG

Interchangeable stripping dies available upon request:

4320-0866, rounded blades
suitable for:
PVC from 10 to 5 AWG

4320-0864, flat blade
suitable for:
PVC from 34 to 8 AWG

4320-0865, 'V' blades
suitable for:
PTFE from 28 to 12 AWG

HB11

For photovoltaics insulated cables
14 to 10 AWG
stripping length 0.33 in.

HB5

TECHNICAL FEATURES

Application Range	*Wire stripper, for PVC insulated cables 22 to 10 AWG*
Dimensions in.	
Length	*6.5*
Width	*2.2*
Height	*0.6*
Weight lbs	*0.3*

HB7

TECHNICAL FEATURES

Application Range	*A versatile tool for cutting, crimping, and stripping. Range: 24 to 10 AWG*
Dimensions in.	
Length	*8.1*
Width	*4.2*
Height	*0.8*
Weight lbs	*0.6*

HB8

TECHNICAL FEATURES

Application Range	*Wire stripper, for PVC insulated cables 24 to 10 AWG*
Dimensions in.	
Length	*6.9*
Width	*3.5*
Height	*0.9*
Weight lbs	*0.4*

CABLE STRIPPING TOOLS HB RANGE

for external sleeves of Low/Medium Voltage cables

HB13UE

Universal cable stripping tool for external sleeves of Low/Medium Voltage cables Ø 0.5 to 2.5 in. and primary insulator in XLPE max Ø 1.5 in.

For vulcanised extruded semiconductor

HB12N

HB12N cable stripping tool removes the semiconductor layer by being manually rotated around the cable while lateral advancement is achieved automatically. Safe and convenient, it can be used on cables with a semi-con diameter between 0.71 to 2.4 in.

The HB12N kit includes:
- HB12N cable stripping tool
- sturdy plastic case

- Sturdy frame in anodised Aluminum alloy and Steel.
- Special Steel blade with precise cutting depth regulation.
- Stripping operation can start at any point along the conductor.
- Bearing mounted rollers provide smooth cutting action.
- With "REVERSE" function, which allows the removal of semiconductor up to 0.28 in. thick from the sheath of the cable.
- Double speed for each direction.

HB2
HB40-U

Wire stripper, for circular cables
HB2 Ø 3/16 to 1 1/8 in.
HB40-U Ø 3/4 to 1 9/16 in.

HB9

Insulated knife, with curved blade and protective cover. Suitable for insulation and screen removal, equipped with blade guide to avoid damage to strands. Handle is made of a bi-component plastic material.

HB10

Insulated knife has an interchangeable straight blade and plastic blade protector that folds into the handle.
Ergonomic handle made of anti shock plastic material

HAND TOOLS FOR CABLE TIES

5527030079

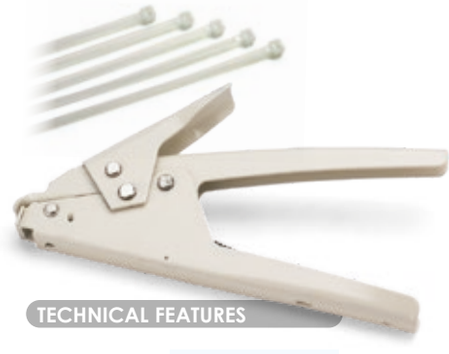
With cutting device

TECHNICAL FEATURES

Application Range	*For stainless steel cable ties width up to 0.31 in.*
Dimensions in.	
Length	*7.1*
Width	*5.6*
Height	*1.2*
Weight lbs	*1.2*

5523036090

Manual cutting



TECHNICAL FEATURES

Application Range	*For plastic cable ties from 0.19 to 0.35 in.*
Dimensions in.	
Length	*7.6*
Width	*3.9*
Height	*1.0*
Weight lbs	*0.7*

5313022048

Automatic cutting

TECHNICAL FEATURES

Application Range	*For plastic cable ties from 0.08 to 0.19 in.*
Dimensions in.	
Length	*6.4*
Width	*5.2*
Height	*0.9*
Weight lbs	*0.46*

CEMBRE

KT

CABLE CUTTERS KT RANGE

for cutting cables Cu and Al

KT1

TECHNICAL FEATURES			
Cutting Capacity	Rigid	Multi-Cond.	Flex
Section Cond. in.	Cu 6 Al 2	Cu 1/0 Al 1/0	Cu 2/0
Dimensions in.			
Length	6.7		
Width	1.8		
Weight lbs.	0.46		

KT2

TECHNICAL FEATURES			
Cutting Capacity	Rigid	Multi-Cond.	Flex
Section Cond. in.	Cu 6 Al 1/0	Cu 1/0 Al 2/0	Cu 3/0
Dimensions in.			
Length	8.26		
Width	1.8		
Weight lbs.	0.65		

KT5

TECHNICAL FEATURES	
Cutting Capacity	for cutting cables Cu and Al up to max section 3 AWG
Dimensions in.	
Length	6.7
Width	2.0
Weight lbs.	0.24

KT3N

TECHNICAL FEATURES	
Cutting Capacity	For cutting cables Cu and Al Ø max 1.34 in. (600 MCM)
Dimensions in.	
Length	10.2
Weight lbs.	1.3

KT4N

TECHNICAL FEATURES	
Cutting Capacity	For cutting cables Cu and Al Ø max 2.4 in. (1000 NCM)
Dimensions in.	
Length	11.7
Weight lbs.	1.76

5116660250

TECHNICAL FEATURES	
Cutting Capacity	For cutting cables Cu and Al Ø max 0.71 in.
Dimensions in.	
Length	23.6
Width	5.5
Weight lbs.	3.31

5116660500

TECHNICAL FEATURES	
Cutting Capacity	For cutting cables Cu and Al Ø max 1.0 in.
Dimensions in.	
Length	31.5
Width	6.3
Weight lbs.	6.62

HAND TOOLS

KTS1632

for cutting and sealing flexible plastic conduit

TECHNICAL FEATURES

Dimensions in.	
Length	*9.05*
Width	*2.28*
Thickness	*1.26*
Weight lbs.	*0.71*

Cuts and seals flexible plastic conduit in a single operation. Lightweight and easy to operate. Suitable for flexible conduits from Ø 0.63 to Ø 1.26 in.

PC1

for cutting plastic pipe

Body: die-cast Aluminum alloy
Blade material: hardened Carbon Steel

TECHNICAL FEATURES

Dimensions in.	
Length	*7.68*
Width	*3.8*
Thickness	*1.06*
Weight lbs.	*0.7*

Plastic pipe cutting tool
Cutting capacity:
from Ø 0.23 to Ø 1.65 in.

FRAME-TYPE HOLE PUNCHING TOOL

MT-FC48N

for cable trunking

Table denotes the punch/die set reference, for each hole size.
Suitable for punching holes in mild steel, fibreglass or plastic material, up to 0.08 in. thick.

Hole Dimensions					Maximum thickness of mild steel (in.)	Type
Nominal		Pg	ISO	Inch		
Ø (mm)	Ø (inch)					
15.5	.610	Pg9	-	-		RD15.5SS-FC
16.2	.638	-	ISO-16	-		RD16.2SS-FC
17.5	.689	-	-	-		RD17.5SS-FC
18.8	.740	Pg11	-	-		RD18.8SS-FC
19.1	.752	-	-	-		RD19.1SS
20.5	.807	Pg 13.5	ISO-20	-		RD20.5SS
22.6	.890	Pg16	-	-		RD22.6SS
23.8	.937	-	-	5/8"		RD23.8SS
25.4	1.000	-	ISO-25	-		RD25.4SS
27.0	1.063	-	-	3/4"		RD27.0SS
28.5	1.122	Pg21	-	-		RD28.5SS
30.5	1.201	-	-	7/8"	0.08	RD30.5SS
31.8	1.252	-	-	-		RD31.8SS
32.5	1.279	-	ISO-32	-		RD32.5SS
34.6	1.362	-	-	-		RD34.6SS
37.2	1.464	Pg29	-	-		RD37.2SS
38.1	1.500	-	-	-		RD38.1SS
40.5	1.594	-	ISO-40	-		RD40.5SS-FC
41.3	1.626	-	-	-		RD41.3SS-FC
42.5	1.673	-	-	1"1/4"		RD42.5SS-FC
43.2	1.701	-	-	-		RD43.2SS-FC
44.5	1.752	-	-	-		RD44.5SS-FC
47.2	1.858	Pg36	-	-		RD47.2SS-FC

Max centre of hole to edge of trunking: 2.11 in.

TECHNICAL FEATURES

Dimensions in.	
Length	*9.9*
Width	*8.8*
Thickness	*2.6*
Weight lbs.	*7.23*

Lightweight and easy to operate, designed for punching holes up to 1.858 in. diameter in the side wall of trunking without the need for pre drilling.

VAL-P30
Supplied in a robust plastic case.

CEMBRE

VALSTAR

ASSORTMENT CASE

for storing connecting material and hand tools

NEW

VALSTAR-N0 (empty)

Robust plastic case with compartments
- **1 storage compartment**
  for mechanical tools, type Crimpstar® /ZKE-N/etc.
- **8 storage compartments**
  for connecting material

Dimensions (LxWxH): 13.4 x 10.8 x 2.8 in.
Weight: 1.54 lbs.

NEW

VALSTAR-N1

Robust plastic case with compartments, containing:
- Tool type **ZKE610N**
- a selection of end sleeves PKC conductor size 17÷10 AWG
- Cable ties type G100X2.5

Material included:

Q.ty	Cond. Size AWG	Length in.	Color	Type
500	17	0.55	Yellow	**PKC108**
500	16	0.55	Red	**PKC1508**
500	14	0.55	Blue	**PKC2508**
200	12	0.71	Grey	**PKC410**
100	10	0.79	Black	**PKC612**
100	-	3.94 x 0.10	White	**G100X2.5**

NEW

VALSTAR-N2

Robust plastic case with compartments, containing:
- Tool type **ZKE610N**
- a selection of end sleeves PKE conductor size 17÷10 AWG
- Cable ties type G100X2.5

Material included:

Q.ty	Cond. Size AWG	Length in.	Color	Type
500	17	0.55	Red	**PKE108**
500	16	0.55	Black	**PKE1508**
500	14	0.55	Grey	**PKE2508**
200	12	0.71	Orange	**PKE410**
100	10	0.79	Green	**PKE612**
100	-	3.94 x 0.10	White	**G100X2.5**

NEW

VALSTAR-N3

Robust plastic case with compartments, containing:
- Tool type **ZKE610N**
- a selection of end sleeves PKD conductor size 17÷10 AWG
- Cable ties type G100X2.5

Material included:

Q.ty	Cond. Size AWG	Length in.	Color	Type
500	17	0.55	Red	**PKD108**
500	16	0.55	Black	**PKD1508**
500	14	0.55	Blue	**PKD2508**
200	12	0.71	Grey	**PKD410**
100	10	0.79	Yellow	**PKD612**
100	-	3.94 x 0.10	White	**G100X2.5**

NEW

VALSTAR-N4

Robust plastic case with compartments, containing:
- Tool type **Crimpstar® HP3**.
- An assortment of PVC insulated crimp terminals for conductor sizes 22÷10 AWG.
- Cable ties

Material included:

Q.ty	Cond. Size AWG	Description	Type
100	22÷16	ring terminals	**RF-M4**
100	16÷14	ring terminals	**BF-M5**
100	12÷10	ring terminals	**GF-M6**
100	22÷16	female disconnect terminals	**RF-F608P**
100	16÷14	female disconnect terminals	**BF-F608P**
100	22÷16	butt connectors	**PL03-M**
	Length in.		
100	3.94 x 0.10	cable ties	**G100X2.5**

NEW

VALSTAR-N5

Robust plastic case with compartments, containing:
- Tool type **HWE1N**
- KE16-WE die
- RBY-WE die

Dies included:

Q.ty	Cond. Size AWG	Description	Type
1	20÷6	Insulated and uninsulated end sleeves	**KE16-WE**
1	20÷10	Insulated connectors red, blue and yellow	**RBY-WE**

BENCH PRESS TOOLS

PNB-1

BENCH PRESS TOOL

Pneumo-hydraulic with interchangeable dies

DURABLE · ERGONOMIC · PROTECTED · SILENT · CE · UKCA · HEXAGONAL · RADIAL · INDENT · TRAPEZIUM

Pneumo-hydraulic, production bench press, operated by a manual control, provides a consistent and reliable crimped connection. Extensive range of interchangeable dies available for crimping a wide variety of connectors.

NOTE: for applications not listed, please contact Cembre.

PNB-1 detail of the crimping zone with PU-1 guard.

TECHNICAL FEATURES

Nominal operating pressure	*100 psi*
Dimensions in.	
Width	*7.09*
Depth	*12.6*
Height	*27.56*
Weight lbs. (without dies)	*50.72*

INTERCHANGEABLE DIES (to be ordered separately)

	Die Set	Guard*	Connector Type			Nominal Conductor Size AWG
	PV-1	PU-1	Insulated Connectors		green	24÷20
	PR-1				red	22÷16
	PB-1				blue	16÷14
	PG-1				yellow	12÷10
	PH1-1	PH-1**	Through connectors PE HD insulated			20÷10
			NL-M, NL-P connectors PA6.6 insulated			22÷10
	KE0.75-1	PK-1	End Sleeves		KE, PK...	22 - 20 - 18
	KE2.5-1					17- 16 -14
	KE10-1					12 - 10 - 8÷7
	MTT16-50	ME-1				6÷5
	MTT25-50					4
	N1-1	PU-1	A 03-M..	S 1.5-..	RN-..	22 - 16
			A 06-M..	S 2.5-..	BN-..	16 - 14
			A 1-M..	S 6-..	GN-..	12 - 10
NEW	MS6-50	ME-1	Uninsulated Copper Lugs		T6-M	12 - 10
NEW	MS10-50				T10-M	8
NEW	MS16-50				T16-M	6
NEW	MS25-50				T25-M	4
NEW	MS35-50				T35-M	2
NEW	MS50-50				T50-M	1/0
	MY2-50	ME-1	Bare color code copper lugs		C8	8
	MY3-50				C6	6
	MY4-50				C4	4
	MY5-50				C3	3
	MY6-50				C2	2
	MY7-50				C1	1
	MY10-50				C1/0	1/0
	MN2RF-50	MN RF-1	Nylon Insulated Lugs		ANE2-M..	8
	MN3RF-50				ANE3-M..	6
	MN5RF-50				ANE5-M..	5
	MN7RF-50				ANE7-M..	2
					ANE9-M..	

** Supplied as standard with the machine ** Supplied as standard with the die*

BENCH PRESS TOOL

PNB-3

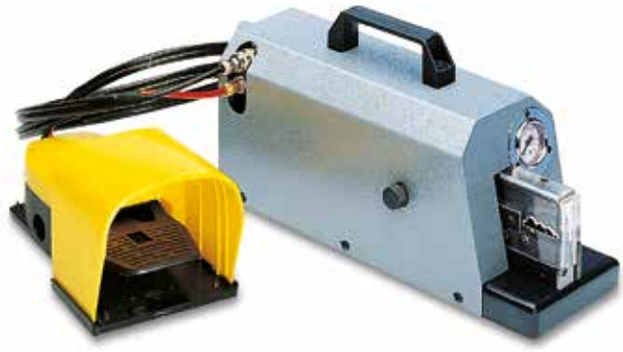
Pneumatic

Pneumatic bench press operated by foot pedal for crimping terminals and connectors 23 to 5 AWG.

TECHNICAL FEATURES

Nominal operating pressure	*87÷100 psi*
Dimensions in.	
Width	*5.12*
Depth	*14.57*
Height	*7.68*
Weight lbs.	*22.71*

PNB-3P detail of the crimping zone.



BENCH PRESS RANGE

Type	Connector Type	Conductor Size AWG
PNB-3P*	Insulated connectors red, blue and yellow	22÷10
PNB-3PD	Insulated terminals and butt connectors - frontal insertion	22÷10
PNB-3N1	Uninsulated terminals	22÷8
PNB-3N5	Uninsulated terminals	8÷6
PNB-3NN3	Polyamide insulated terminals	16÷8
PNB-3NN4	Polyamide insulated terminals	8÷6
PNB-3F/M	Bullet connectors	20÷14

** Will also crimp Polycarbonate fully-insulated terminals if fitted with PNB3F/M positioner (Cod. 6240145), available as an optional accessory.*

BENCH PRESS TOOL

PNB-4KE

Pneumatic with multi-aperture die

Pneumatic bench press, operated by a manual control.
Supplied with a multi-aperture die suitable for crimping insulated and uninsulated end sleeves from 22 to 8 AWG.
Compact and efficient. Easy to operate, producing a secure and reliable crimped connection.

TECHNICAL FEATURES

Nominal operating pressure	*87 psi*
Dimensions in.	
Width	*4.72*
Depth	*6.3*
Height	*11.81*
Weight lbs.	*13.23*

PNB-4KE detail of the crimping zone.

MULTI DIES

Type	Connector Type	Conductor Size AWG
PNB-4KE	End Sleeves type PK.. and type KE	22÷8

CEMBRE

EPB-1N

ELECTRO-PNEUMATIC BENCH PRESS

automatic stripping / crimping machine for insulated end sleeves

Bench press type EPB-1N, electro-pneumatically operated, is designed for stripping and crimping insulated end sleeves Cembre type PKC, PKD and PKE.
The basic configuration processes connectors of c.s.a 20/18/17 and 16 AWG with a sleeve lengths of 0.24, 0.31, 0.39 and 0.47 in.

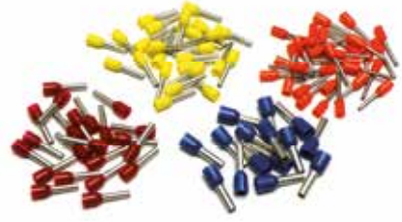
Adapter kits are available:
KIT-2.5-EPB1N
for insulated end sleeves c.s.a 14 AWG with a sleeve length of 0.31, 0.39 and 0.47 in.
KIT-4-EPB1N
for insulated end sleeves c.s.a 12 AWG with a sleeve length of 0.39 in.

Stripping and crimping operations are carried out in quick succession. Adjustable loading speed of vibrating charger.
Quick and easy change of configuration for different connector sizes. Automatic adjustment of operating perameters to suit each configuration.
Modular structure and wear-free components guarantee excellent reliability.

Adapter Kit for
insulated end sleeves
c.s.a 14 AWG
(KIT-2.5-EPB1N)
(KIT-4-EPB1N)

TECHNICAL FEATURES

Crimping Range	*20-16 AWG (basic configuration)*
Dimensions in.	
Length	*15.3*
Width	*9.4*
Height	*19.3*
Weight lbs.	*63.9*
Power Supply	*230 V/50 Hz (110 V/60 Hz)*
Current	*0,5 A*
Length of crimp	*0.24, 0.31, 0.39 and 0.47 in.*
Geometry of crimp	*Trapezoidal*
Cycle time	*2 s*
Compressed Air supply	*Min. 58 - Max 87 psi*
Air consumption	*1.2 l / cycle*
Cycle controller	*Electro-pneumatic, with microprocessor*
Counter	*Digital*



PNEUMATIC CRIMPING TOOLS

Hand held - PNB series

PNB-6KE
PNB-7KE

PNB-6KE TECHNICAL FEATURES

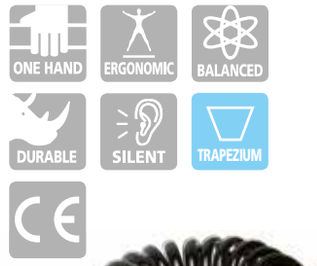
Crimping Range	*24 ÷ 14 AWG*
Dimensions in.	
Length	*7.9*
Width Ø	*1.7*
Length with spiral hose	*78.7*
Weight lbs.	*0.88*

PNB-7KE TECHNICAL FEATURES

Crimping Range	*12 ÷ 8 AWG*
Dimensions in.	
Length	*7.9*
Width Ø	*1.7*
Length with spiral hose	*78.7*
Weight lbs.	*0.88*

PNB-6KE and PNB-7KE hand tools facilitate the rapid crimping of insulated end sleeves while avoiding the operator discomfort associated with ordinary manual tools. Lightweight and easy to use, these tools are ideal for panel building applications and component assembly.

Both tools are designed to be maintenance-free and need no routine calibration. A 58 - 87 psi air supply is required for connection via the quick coupler fitted to the hose supplied with the tool.



PNEUMATIC CRIMPING TOOLS

Bench mounted tools with foot pedal - PNB series

PNB-6KE-T
PNB-7KE-T

PNB-6KE-T TECHNICAL FEATURES

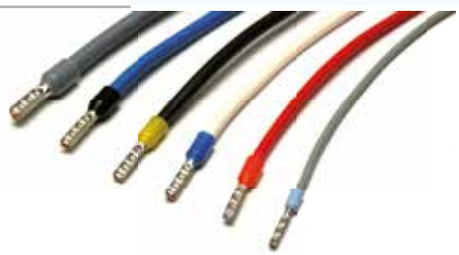
Crimping Range	*24 ÷ 14 AWG*
Dimensions in.	
Length	*7.9*
Width Ø	*5.5*
Height	*2.7*
Length with spiral hose	*78.7*
Weight lbs.	*2.2*

PNB-7KE-T TECHNICAL FEATURES

Crimping Range	*12 ÷ 8 AWG*
Dimensions in.	
Length	*7.9*
Width Ø	*5.5*
Height	*2.7*
Length with spiral hose	*78.7*
Weight lbs.	*2.2*

PNB-6KE-T and PNB-7KE-T have bench mounts with storage and are foot pedal operated to allow operators to have both hands free when assembling cable harnesses. Both tools are designed to be maintenance-free and need no routine calibration.

A 58 - 87 bar air supply is required for connection via the quick coupler fitted to the hose supplied with the tool.



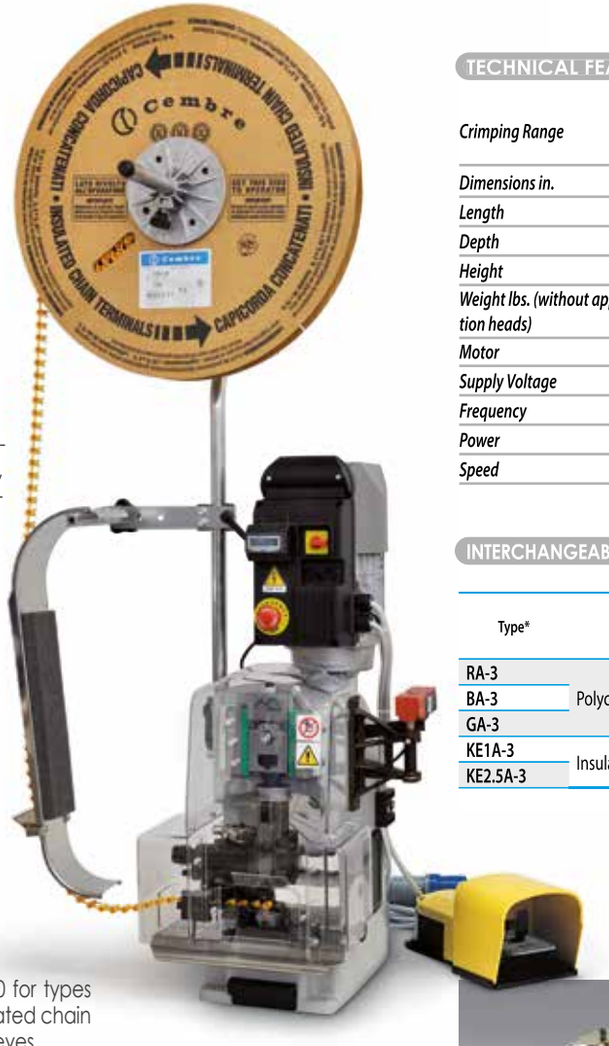
CEMBRE

ELB-3

BENCH PRESS

for Polycarbonate insulated chain connectors

DURABLE ERGONOMIC SILENT PROTECTED CE RADIAL TRAPEZIUM



Electro-pneumatic, production bench press, controlled by a foot operated pedal.
Producing a consistent and reliable crimped connection.
Interchangeable application heads available to suit the complete range of Polycarbonate insulated connectors.

See pages 16-17 and 20 for types and features of the insulated chain connectors and end sleeves.

TECHNICAL FEATURES

Crimping Range	*Polycarbonate insulated chain terminals 22 ÷ 10 AWG and insulated chain end sleeves 22 ÷ 13 AWG*
Dimensions in.	
Length	*7.09*
Depth	*9.84*
Height	*24.4*
Weight lbs. (without application heads)	*90.4*
Motor	
Supply Voltage	*110 V / 60 Hz*
Frequency	*50 Hz*
Power	*0.55 kW / 0,75 HP*
Speed	*2,800 turns/minute*

INTERCHANGEABLE APPLICATION HEADS, SIDE ENTRY WITH PNEUMATIC FEED

Type*	Connectors	Conductor Size AWG
RA-3	Polycarbonate insulated chain terminals	22÷15
BA-3		15÷13
GA-3		11÷10
KE1A-3	Insulated chain end sleeves	22÷17
KE2.5A-3		17÷13

** order as required*

Conforms to DIN Standard 46 228/4

PROFESSIONAL EQUIPMENT

symbol description

professional equipment

Can be operated with one hand

Ergonomically designed with a sculptured body for operator comfort

Lightweight and balanced for greater control

Dual-compound plastic handles
Greater safety and comfort in handling, thanks to the rubber inserts

Durable moulded body offering high resistance to wear and damage in all operating conditions

Max cutting section

High hardness blades

Stainless steel blades

High tensile steel blades

Micro-serrated blades for anti-slip purpose

Special Steel frame for high resistance and a long life

Chrome Steel Tools

Chrome Vanadium Steel Tools

Aluminum frame

ABS structure

Luminous flux intensity

Equipped with USB charging

Equipped with wireless charging

symbol description

professional equipment

Equipped with magnetic support

Equipped with power plug

Equipped with dimmer switch

Equipped with an ON / OFF motion sensor

Can be used as an power bank

Degree of Protection

CE marking

UKCA marking

CEMBRE

PROFESSIONAL SCISSORS SC5X

For flexible conductors Cu-Al

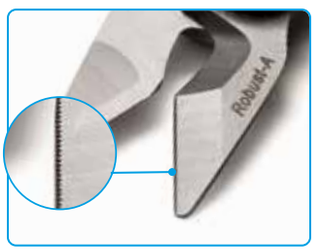
Robust-A

Professional scissors with a Special Steel frame for high resistance and long life.
Ergonomic and dual-compound plastic handles: glass fibre reinforced Polyamide and inserts of soft Rubber.
The anti-loosening pivot and bevelled profile allow the accurate and consistent alignment of the blades.
High hardness blades (58 HRC) and an anti-slip serrated edge for making precise cuts even on more difficult materials.
Shaped groove for cutting conductor up to 1/0 AWG.

Supplied with carry case and swivel belt hook.

Special Steel frame for high resistance and a long life

REGISTERED DESIGN



Micro serrated blade

Anti-loosening pivot

Dual-compound material

Case with swivel belt hook

PROFESSIONAL SCISSORS SC6X

SC6X-A

For flexible conductors Cu-Al

Agil-E

Only 0.19 lbs. weight, the tapered blades and streamlined handles encourage agility and speed of operation for perfect work every time.

The particular shape of the blades optimises use in limited spaces and cutting of conductors with minimum effort.

Handles have an integrated crimping system for end sleeves.

lightweight design Only 0.19 lbs

REGISTERED DESIGN

Shaped groove in each blade for easy cutting up to 1/0 AWG

Crimping system for end sleeves

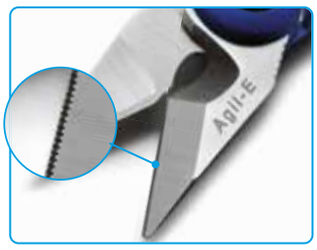
Economically shaped hand grips

High hardness blades (58 HRC)

Anti-slip serrated edge for making precise cuts even on more difficult materials

Anti-loosening pivot

Soft rubber inserts to maximise grip



Micro serrated blade

Anti-loosening pivot

Dual-compound material

Case with belt fastening system

CEMBRE

SC5X

PROFESSIONAL SCISSORS SC RANGE

For flexible conductors Cu-Al

Professional scissors with Special Steel frame, high hardness blades (58 HRC) and anti slide serrations. The moulded plastic handles combine a rigid structure with a softer material for finger comfort.
Cutting of flexible conductors up to 1/0 AWG

TECHNICAL FEATURES

Application Range	*Cu-Al flexible conductors up to 1/0 AWG*
Dimensions in.	
Length	*6.4*
Width	*3.0*
Weight lbs	*0.27*

Supplied with carry case and swivel belt hook.

SC6X-A

PROFESSIONAL SCISSORS SC RANGE

For flexible conductors Cu-Al

Only 0.2 lbs weight, the tapered blades and streamlined handles encourage agility and speed of operation.
Handles have an integrated crimping system for end sleeves.
Cutting of flexible conductors up to 1/0 AWG

TECHNICAL FEATURES

Application Range	*Cu-Al flexible conductors up to 1/0 AWG*
Dimensions in.	
Length	*6.3*
Width	*2.8*
Weight lbs	*0.19*

Supplied with carry case belt hook.

PROFESSIONAL SCISSORS SC RANGE

SC3X

For flexible conductors Cu-Al

TECHNICAL FEATURES

Application Range	*Cu-Al flexible conductors up to 2 AWG*
Dimensions in.	
Length	*5.9*
Width	*2.9*
Weight lbs	*0.19*

Multi-purpose scissors with high hardness blades (56 HRC) and anti slide serrations.
The moulded plastic handles combine a rigid structure with a softer material for finger comfort.
Cutting of flexible conductors up to 2 AWG

PROFESSIONAL SCISSORS SC RANGE

SC1

For flexible conductors Cu-Al

TECHNICAL FEATURES

Application Range	*Cu-Al flexible conductors*
Dimensions in.	
Length	*5.7*
Width	*3.0*
Weight lbs	*0.17*

Electricians scissors with high tensile steel blades allowing for excellent strength and performance.
Specially micro-serrated blades for anti-slip purpose. Handles are made from dual component materials.

CEMBRE

CBL01

150 LUMEN · MAGNETIC · IP20 · USB CHARGE · DURATION FRONT/TORCH 2,5/3,5h · CE · UKCA

CBLIGHT

pocket torch

Pocket torch CBL01

The handy CBL01 torch is the size of a pen and is equipped with a double light point to illuminate small work areas. The side light allows you to illuminate the area while leaving it in your pocket, while the front light allows you to inspect less accessible areas.
The clip is equipped with a magnet allowing it to be attached to any metal surface, freeing the operator's hands.
Supplied with USB charging cable.

Main Features

Type	Lumen Front / Flashlight	Duration Front / Flashlight	Energy Class	Magnetic Support	Charging Method	Degree of Protection	Operating Temperature Range °F	Body Material	Lamp Material	Dimensions in.	Weight oz
CBL01	150 / 70	2.5 / 3.5 h	A++	Yes	USB	IP20	14 /104	ABS	PC	6.30 x 0.6 x 0.79	1.34

CBL02-WA

400 LUMEN · IP54 · WIRELESS CHARGE · USB CHARGE · MOTION SENSOR · DURATION FRONT/TORCH 3/5h · CE · UKCA

CBLIGHT

head torch

Head torch CBL02-WA

Ideal for any indoor or outdoor activity requiring localised lighting and freedom of action, the CBL02-WA head torch is equipped with a touch sensor allowing operation even whilst wearing gloves. The light intensity can be modulated via the dimmer function helping to preserve battery life.
The CBL02-WA is a versatile head torch adjustable by means of an elastic band to fit work helmets of various sizes.
Supplied with USB charging cable and charger.

Main Features

Type	Lumen Front / Flashlight	Duration Front / Flashlight	Energy Class	Magnetic Support	Charging Method	Degree of Protection	Operating Temperature Range °F	Body Material	Lamp Material	Dimensions in.	Weight oz
CBL02-WA	400 / 80	3 / 5 h	A++	No	USB / Wireless	IP54	14 /104	ABS+PC	PC	3.07 x 1.54 x 1.42	3.7

CBL03-WA

300 LUMEN · MAGNETIC · IP65 · WIRELESS CHARGE · USB CHARGE · DIMMER · DURATION FRONT/TORCH 3/6h · CE · UKCA

CBLIGHT

multi-purpose lamp

Multi-purpose lamp CBL03-WA

The CBL03-WA multi-purpose lamp is a mini-lamp that can be used on a table or hung on metal surfaces thanks to the handy magnet or the suspension hook.

It is equipped with an ergonomic non-slip handle to make it easy to use.
The 2 light points with dimmer function allow you to modulate the intensity and battery life as needed.
The compact design makes it ideal as a pocket lamp for storage in a jacket pocket or work trousers.
Supplied with USB charging cable and charger.

Main Features

Type	Lumen Front / Flashlight	Duration Front / Flashlight	Energy Class	Magnetic Support	Charging Method	Degree of Protection	Operating Temperature Range °F	Body Material	Lamp Material	Dimensions in.	Weight oz
CBL03-WA	300 / 100	3 / 6 h	A++	Yes	USB / Wireless	IP65	14 /104	ABS	PC	5.24 x 2.68 x 0.98	6.70

CBLIGHT

space-saving floor lamp

CBL04-WA

600 LUMEN · MAGNETIC · IP54 · WIRELESS CHARGE · USB CHARGE · DIMMER · DURATION FRONT/TORCH 2,5/8h · CE · UKCA

The most versatile of the family is the CBL04-WA, which has a double light point, 2 dimmable light intensities, a rotatable and foldable stem and allows ideal lighting in all conditions.
The double magnetic support and the suspension hook allow the lamp to be secured anywhere with ease.

Designed to be easy to carry in a bag or trouser pocket whilst also offering excellent battery life and low weight portability.
The compact design ensures the CBL04-WA is the ideal solution for inspecting difficult to reach areas.
Supplied with USB charging cable and charger.

Space-saving floor lamp CBL04-WA

Main Features

Type	Lumen Front / Flashlight	Duration Front / Flashlight	Energy Class	Magnetic Support	Charging Method	Degree of Protection	Operating Temperature Range °F	Body Material	Lamp Material	Dimensions in.	Weight oz
CBL04-WA	600 / 100	2.5 / 8 h	A++	Yes	USB / Wireless	IP54	14 / 104	ABS	PC	6.89 (12.8 max) x 1.73 x 1.5	8.68

CBLIGHT

portable lamps

CBL05-WA

600 LUMEN · MAGNETIC · IP65 · WIRELESS CHARGE · USB CHARGE · DIMMER · DURATION FRONT/TORCH 2,5/10h · CE · UKCA

An ergonomic bi-component plastic handle makes the CBL05-WA the most comfortable and robust lamp in the series, particularly suited to lengthy inspection work.
Featuring two light points, dimmer function and a long battery life.

Equipped with magnetic table support with retractable suspension hook.
Supplied with USB charging cable and charger.

Portable lamps CBL05-WA

Main Features

Type	Lumen Front / Flashlight	Duration Front / Flashlight	Energy Class	Magnetic Support	Charging Method	Degree of Protection	Operating Temperature Range °F	Body Material	Lamp Material	Dimensions in.	Weight oz
CBL05-WA	600 / 100	2.5 / 10 h	A++	Yes	USB / Wireless	IP65	14 / 104	PC	PC	8.07 x 2.17 x 1.57	10.58

CBL06

CBLIGHT

portable spotlight for small-medium work environments

The CBL06A portable spotlight meets the requirement of those who need to illuminate small-medium work environments.

The magnetic table mount allows the spotlight to be secured to metal surfaces.
The power bank function allows small devices to be charged via the USB output, useful for emergency situations.
Supplied with USB charging cable and charger.

Portable spotlight for small-medium work environments CBL06A

Main Features

Type	*Lumen Front / Flashlight*	*Duration Front / Flashlight*	*Energy Class*	*Magnetic Support*	*Charging Method*	*Degree of Protection*	*Operating Temperature Range °F*	*Body Material*	*Lamp Material*	*Dimensions in.*	*Weight oz*
CBL06A	*2000*	*3.5 / 7 h*	*A++*	*Yes*	*USB*	*IP65*	*14 / 104*	*ABS*	*PC*	*7.68 x 4.92 x 1.89*	*28.22*

CBL07A

CBLIGHT

portable spotlight for large work environments

The diffused light emitted by the CBL07A spotlight enables the illumination of large areas.
Light, practical and sturdy, this spotlight is quick to install.
The power bank function allows small devices to be charged via the USB output, useful for emergency situations.
Supplied with charger.

Portable spotlight for large work environments CBL07A

Main Features

Type	*Lumen*	*Duration*	*Energy Class*	*Magnetic Support*	*Charging Method*	*Degree of Protection*	*Operating Temperature Range °F*	*Body Material*	*Lamp Material*	*Dimensions in.*	*Weight oz*
CBL07A	*3000 / 1500*	*3 / 6 h*	*A+*	*No*	*Power Plug*	*IP65*	*14 / 104*	*ABS*	*PC*	*10.9 x 8.39 x 3.39*	*49.38*

CBLIGHT

wireless charging bases

BCB1-WA
BCB2-WA

The BCB1-WA and BCB2-WA charging bases make it possible to keep the lamps fully charged meaning they are always ready for use.

The magnetic construction allows quick attachment to metal surfaces along with holding the lamps in place during charging.

The BCB1-WA single base is designed to recharge a single lamp. The BCB2-WA allows 2 lamps to be charged at the same time.
Supplied with USB charging cable and charger.

IP20 · MAGNETIC · WIRELESS CHARGE · USB CHARGE · CE · UKCA

BCB2-W

BCB1-W

Wireless charging bases

Main Features

Type	*Magnetic Support*	*Charging Method*	*Degree of Protection*	*Operating Temperature Range °F*	*Body Material*	*Dimensions in.*	*Weight oz*
BCB1-WA	*Yes*	*USB / Wireless*	*IP20*	*14 /104*	*ABS*	*4.13 x 4.17 x 0.71 (single)*	*6.70*
BCB2-WA	*Yes*	*USB / Wireless*	*IP20*	*14 /104*	*ABS*	*7.95 x 4.17 x 0.71 (double)*	*9.52*

CBLIGHT

tripod adjustable

TRCB2

The TRCB2 tripod is extendable up to a maximum of 6.5 ft., and offers maximum flexibility to position the CBLIGHT lamps at the desired height.
When mounted on the tripod the light can be tilted to provide the optimum beam angle.
Its sturdy construction makes it safe even when fully extended.

Type	Suitable per lamp type
TRCB2	**CBL06 CBL07**

TRCB2

Main Features

Type	*Body Material*	*Minimum height open ft.*	*Max height open ft.*	*Base diameter maximum ft.*	*Dimensions Closed in.*	*Weight lbs.*
TRCB2	*Steel*	*3,7*	*6.5*	*3.3*	*40.6 x 6.3*	*7.0*

SDC-KV

PROFESSIONAL SCREWDRIVERS SDC RANGE

insulated

ERGONOMIC · BI-COMPONENT · ONE HAND · BALANCED · DURABLE · CHROME STEEL · 55-59 HRC

VDE GS C 1000V EN/IEC - 60900

To ensure quick identification, the type and size of the head are indicated in different colors on the back of the handle.

The heads are made from Chromium Molybdenum steel with a hardness of 55-59 HRC and are hardened with Phosphoric Manganese Acid to increase corrosion resistance; the size of the insulating cover allows it to be inserted into tight spaces.

Each individual screwdriver is tested in accordance with EN 60900

Blade type identification on the back of the handle

The CEMBRE range of insulated screwdrivers have dual compound handgrips and an ergonomic design making them particularly practical and comfortable in the following modes of use:

- **Normal**
- **Fast**
- **Forced**

Soft and durable hand guard

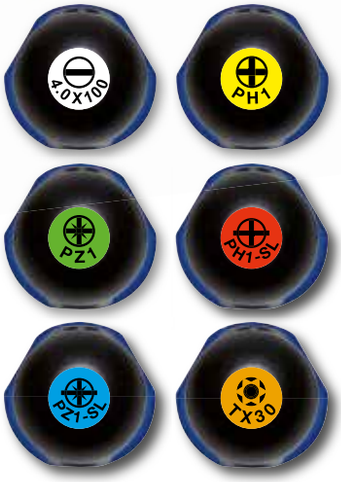
Narrow insulating cover to allow insertion into tight spaces

Chromium Molybdenum steel head with hardness 55-59 HRC and anti-corrosion surface treatment

Ergonomic and shaped hand grip

Coating in dual compound plastic material with soft rubber inserts

Shaped blade for greater resistance and stability



Head type identification codes:

- **White** - Flat head
- **Yellow** - "Phillips" cross head
- **Green** - "Pozidriv" cross head
- **Red** - "Phillips" combination head
- **Blue** - "Pozidriv" combination head
- **Orange** - "Torx" six point star head

Steel tips

Ergonomic handle

Hand guard

Attachment hole

insulated

Flat head screwdrivers

Main Features

Type	Head Dimensions in. Width	Head Dimensions in. Thickness	Blade Length in.	Total Length in.	Weight lbs.
SDC3X100-KV	0.12	0.019	3.9	7.3	0.07
SDC3.5X100-KV	0.14	0.02	3.9	7.3	0.08
SDC4X100-KV	0.16	0.03	3.9	8.1	0.13
SDC5.5X125-KV	0.22	0.04	4.9	9.1	0.17
SDC6.5X150-KV	0.26	0.05	5.9	10.4	0.25
SDC8X175-KV	0.31	0.05	6.9	11.7	0.40

PH Phillips cross head screwdrivers

Main Features

Type	Head Dimensions in. Size	Head Dimensions in. Blade Length	Total Length in.	Weight lbs.
SDC0PH-KV	PH0	2.4	5.7	0.06
SDC1PH-KV	PH1	3.1	7.4	0.14
SDC2PH-KV	PH2	3.9	8.5	0.21

PZ Pozidriv cross head screwdrivers

Main Features

Type	Head Dimensions in. Size	Head Dimensions in. Blade Length	Total Length in.	Weight lbs.
SDC0PZ-KV	PZ0	2.4	5.7	0.06
SDC1PZ-KV	PZ1	3.1	7.4	0.14
SDC2PZ-KV	PZ2	3.9	8.5	0.21

PHSL Phillips combination head screwdrivers

Main Features

Type	Head Dimensions in. Size	Head Dimensions in. Blade Length	Total Length in.	Weight lbs.
SDC1PH-SL-KV	PH1 SL	3.1	7.4	0.14
SDC2PH-SL-KV	PH2 SL	3.9	8.5	0.21

PZSL Pozidriv combination head screwdrivers

Main Features

Type	Head Dimensions in. Size	Head Dimensions in. Blade Length	Total Length in.	Weight lbs.
SDC1PZ-SL-KV	PZ1 SL	3.1	7.4	0.14
SDC2PZ-SL-KV	PZ2 SL	3.9	8.5	0.21

TORX six point star head screwdrivers

Main Features

Type	Head Dimensions in. Size	Head Dimensions in. Blade Length	Total Length in.	Weight lbs.
SDC10TX-KV	TX10	3.1	7.3	0.13
SDC15TX-KV	TX15	3.1	7.3	0.14
SDC20TX-KV	TX20	3.9	8.1	0.15
SDC25TX-KV	TX25	3.9	8.1	0.16
SDC30TX-KV	TX30	4.5	9.1	0.22
SDC40TX-KV	TX40	5.1	9.6	0.26

PROFESSIONAL SCREWDRIVERS SDC RANGE

for various uses

Flat head screwdriver with mains tester

Main Features

Type	Head Dimensions in.		Total Length in.	Weight lbs
	Head Size	Length		
SDC3X60-PD	0.12	2.6	6.0	1.2

A fully functioning flat head screwdriver with a completely transparent handle allowing visibility of the indicator from any angle, ensuring high safety.

- Transparent handle
- High quality head
- Ergonomic design
- Pocket clip with spring

Screwdriver with 45° angled flat head

Main Features

Type	Head Dimensions in.		Blade Length in.	Total Length in.	Weight lbs
	Width	Thickness			
SDC2.5X55B	0.10	0.02	2.2	5.6	0.06
SDC3.5X55B	0.14	0.02	2.2	5.6	0.06

Screwdriver with angled head, ideal for terminals, sensors and actuators.

Flat head stubby screwdriver

Main Features

Type	Head Dimensions in.		Blade Length in.	Total Length in.	Weight lbs
	Width	Thickness			
SDCS2.5X55	0.22	0.10	1.0	2.9	0.08

Phillips cross head stubby screwdriver PH

Main Features

Type	Head Dimensions in.		Total Length in.	Weight lbs
	Size	Blade Length		
SDCS1PH	PH1	1.0	2.9	0.08

Set of 7 Screwdrivers - KSDC7-KV

Main Features

Set consists of: Type	Head Dimensions in.		Total Length in.	Weight lbs
	Size	Length		
SDC3X100-KV	0.12	3.9	7.3	0.07
SDC4X100-KV	0.16	3.9	8.1	0.13
SDC5.5X125-KV	0.22	4.9	9.1	0.17
SDC6.5X150-KV	0.26	5.9	10.4	0.25
SDC0PH-KV	PH0	2.4	5.7	0.06
SDC1PH-KV	PH1	3.1	7.4	0.14
SDC2PH-KV	PH2	3.9	8.5	0.21

PROFESSIONAL HEX SOCKET SCREWDRIVERS

SDC

with reduced shank diameter

Deep point socket

Hexagonal lever point

Reduced shank diameter

Hex socket screwdrivers with reduced shank diameter

Main Features

Type	Head Dimensions in.	Blade Length in.	Total Length in.	Weight lbs
SDC7X125-HEX	0.27	4.9	9.6	0.21
SDC8X125-HEX	0.31	4.9	9.6	0.25
SDC9X125-HEX	0.35	4.9	9.6	0.29
SDC10X125-HEX	0.39	4.9	9.6	0.34

- Ergonomic handgrip for comfortable use without strain.
- Reduced external shank diameter allows the tool to be used in narrow spaces (relays and switches).
- Deep point socket ideal for long threads.
- Hexagonal lever point facilitates extra force without strain.
- Standards: ISO 6750 - ISO 2236

UNIVERSAL KEY UKC4

UKC

for switchboards

Universal key for switchboards UKC4

Main Features

Type	Dimensions in.			Weight lbs
	Length	Width	Height	
UKC4	2.8	2.8	0.6	0.20

Universal key for switchboards
Equipped with:
Triangular shape 0.27-0.31 in.
Double notch 0.12-0.20 in.
Square shape 0.20-0.24, 0.27-0.31 in.
Screwdriver bit and hexagonal holder

UPC-KV
TR-KV
SPC-KV
WPC-KV

PROFESSIONAL PLIERS

insulated

ERGONOMIC · BI-COMPONENT · ONE HAND · BALANCED · DURABLE · CHROME STEEL

CA 1000V
EN/IEC - 60900

As for all CEMBRE insulated tools, each individual pair of pliers is tested in accordance with EN 60900

The design of CEMBRE insulated pliers and the use of dual-compound plastic material in the handle cover optimise the distribution of the force over the entire surface in contact with the palm of the hand.

This leads to:
- A reduction of the effort applied
- A greater transmitted force
- Safer grip
- Prevention of injury to the fingers between the handles

Wide and safe hand guard

Gripping and cutting edges

Soft articulated joint

Ergonomic hand grip

PROFESSIONAL PLIERS

insulated

UPC-KV
TR-KV
SPC-KV
WPC-KV

UPC Universal pliers

Main Features

Type	Total Length in.	Head Dimensions in. Width	Head Dimensions in. Thickness	Weight lbs
UPC180-KV	7.1	1.06	0.43	0.63
UPC200-KV	7.9	1.26	0.46	0.84

TR Nippers

Main Features

Type	Total Length in.	Head Dimensions in. Width	Head Dimensions in. Thickness	Weight lbs
TR160-KV	6.3	0.75	0.39	0.50

TR Heavy duty nippers

Main Features

Type	Total Length in.	Head Dimensions in. Width	Head Dimensions in. Thickness	Weight lbs
TR200-KV	7.9	1.20	0.51	0.67

SPC Straight nose pliers

Main Features

Type	Total Length in.	Head Dimensions in. Width	Head Dimensions in. Thickness	Weight lbs
SPC200-KV	7.9	0.85	0.42	0.57

SPC 45° nose pliers

Main Features

Type	Total Length in.	Head Dimensions in. Width	Head Dimensions in. Thickness	Weight lbs
SPC200B-KV	7.9	0.85	0.42	0.58

WPC Pipe grips

Main Features

Type	Total Length in.	Head Dimensions in. Width	Head Dimensions in. Thickness	Weight lbs
WPC250-KV	9.8	1.14	0.30	0.84

WSC Wire stripper

Main Features

Type	Total Length in.	Head Dimensions in. Width	Head Dimensions in. Thickness	Weight lbs
WSC180-KV	7.1	0.85	3.7	0.53

For insulated cables from 18 to 10 AWG

CEMBRE

CTSB1

PROFESSIONAL TOOL HOLDERS

soft line

ERGONOMIC ONE HAND BALANCED DURABLE

CEMBRE offers a range of tool holders designed to provide professional users with practical and neat ways to optimise their time and working conditions.

Bag CTSB1

Main Features

Type	Dimensions in. Length	Width	Height	Weight lbs.
CTSB1	*16.5*	*9.8*	*13.4*	*6.6*

Practical tool bag in robust fabric, with 2 separate compartments to neatly arrange hand tools. Additional equipment may be accommodated via handy hooks and external pockets while documents are safely stored inside. A shoulder strap and sturdy metal handle make it easy to carry.

Leave your footprint!

Logo max dimensions

Length in.	Height in.
3.9	3.9

KIT-CTSB1-1
KIT-CTSB1-3

bag kit CTSB1-1

Main Features

Type	Dimensions in. Length	Width	Height	Kit Weight lbs
KIT-CTSB1-1	16.5	9.8	13.4	12.3

CTSB1 equipped with selection of tools.

Tools contained in the kit:

Qty	Type	Description
1	SC5X	scissors SC5X
1	SDC3X60-PD	mains tester
1	SDC3X100-KV	screwdriver 0.12x3.9
1	SDC3.5X100-KV	screwdriver 0.14x3.9
1	SDC4X100-KV	screwdriver 0.16x3.9
1	SDC5.5X125-KV	screwdriver 0.22x4.9
1	SDC1PH-KV	screwdriver ph1
1	SDC2PH-KV	screwdriver ph2
1	SDC1PZ-KV	screwdriver pz1
1	SDC2PZ-KV	screwdriver pz2
1	UPC180-KV	pliers 7.1 in.
1	FLS3 (metric)	measuring tape 9.8 ft. (3m)
1	KAK9	allen keys
1	HB18	retractable cutter
1	HKS6	pocket hacksaw
1	LVL150	level 5.9 in.
1	HMR300	hammer

bag kit KIT-CTSB1-3

Main Features

Type	Dimensions in. Length	Width	Height	Kit Weight lbs
KIT-CTSB1-3	16.5	9.8	13.4	15.0

CTSB1 equipped with selection of tools.

Tools contained in the kit:

Qty	Type	Description
1	SC5X	scissors SC5X
1	SDC3X60-PD	mains tester
1	SDC3X100-KV	screwdriver 0.12x3.9
1	SDC3.5X100-KV	screwdriver 0.14x3.9
1	SDC4X100-KV	screwdriver 0.16x3.9
1	SDC5.5X125-KV	screwdriver 0.22x4.9
1	SDC1PH-KV	screwdriver ph1
1	SDC2PH-KV	screwdriver ph2
1	SDC1PZ-KV	screwdriver pz1
1	SDC2PZ-KV	screwdriver pz2
1	UPC180-KV	pliers 7.1 in.
1	TR160-KV	nippers 6.3 in
1	HB14	wire stripper 24-10 AWG
1	FLS5 (metric)	measuring tape 16.4 ft. (5m)
1	KAK9	allen keys
1	KRK4	spanners with ratchet
1	UKC4	universal key
1	HB18	retractable cutter
1	HKS6	pocket hacksaw
1	LVL150	level 5.9 in.
1	HMR300	hammer

ERGONOMIC ONE HAND BALANCED DURABLE

Backpack CTBP1

Main Features

Type	Dimensions in. Length	Width	Height	Weight lbs
CTBP1	*14.2*	*4.3*	*21.3*	*6.8*

Practical tool backpack in sturdy fabric, with reinforced non-slip rubber bottom. Equipped with internal and external pockets to arrange the manual tools in a rational way, and a PC pocket. Thanks to the practical front opening and the different compartments, it is possible to insert documents and different equipment. The sturdy rubber handle and comfortable padded shoulder straps make it easy to carry.

Your logo here

Leave your footprint!

Logo max dimensions Length in.	Height in.
2.4	3.1

KIT-CTBP1-1

soft line - backpack kit

Backpack kit CTBP1-1

Main Features

Type	Dimensions in. Length	Width	Height	Peso Kit kg
KIT-CTBP1-1	*14.2*	*4.3*	*21.3*	*9.0*

CTBP1 equipped with selection of tools.

Tools contained in the kit:

Qty	Type	Description
1	**SC5X**	scissors SC5X
1	**SDC3X60-PD**	mains tester
1	**SDC3X100-KV**	screwdriver 0.12x3.9
1	**SDC3.5X100-KV**	screwdriver 0.14x3.9
1	**SDC4X100-KV**	screwdriver 0.16x3.9
1	**SDC5.5X125-KV**	screwdriver 0.22x4.9
1	**SDC1PH-KV**	screwdriver ph1
1	**SDC2PH-KV**	screwdriver ph2
1	**UPC180-KV**	pliers 7.1 in.
1	**HKS6**	pocket hacksaw

VAL-GPTP

ABS · ERGONOMIC · ONE HAND · BALANCED · DURABLE

ABS case VAL-GPTP

Main Features

Type	Dimensions in. Length	Width	Height	Weight lbs
VAL-GPTP	17.8	13.1	7.5	8.8

Suitcase made of high thickness thermoformed ABS, complete with two tool panels with elastic bands for containing any tool and internal document / tablet pocket. Thermoformed bottom with adjustable dividers. Sturdy aluminum profile with 2 side locks with key.
Lid equipped with a stop to limit 90 ° opening and ergonomic handle.

KIT-VAL-GPTP-1
KIT-VAL-GPTP-2

ABS case kit VAL-GPTP-1

Main Features

Type	Dimensions in. Length	Width	Height	Kit Weight lbs
KIT-VAL-GPTP-1	17.8	13.1	7.5	14.6

Case VAL-GPTP equipped with selection of tools.

Tools contained in the kit:

Qty	Type	Description
1	**SC5X**	scissors SC5X
1	**SDC3X60-PD**	mains tester
1	**SDC3X100-KV**	screwdriver 0.12x3.9
1	**SDC3.5X100-KV**	screwdriver 0.14x3.9
1	**SDC4X100-KV**	screwdriver 0.16x3.9
1	**SDC5.5X125-KV**	screwdriver 0.22x4.9
1	**SDC1PH-KV**	screwdriver ph1
1	**SDC2PH-KV**	screwdriver ph2
1	**SDC1PZ-KV**	screwdriver pz1
1	**SDC2PZ-KV**	screwdriver pz2
1	**UPC180-KV**	pliers 7.1 in.
1	**FLS3** (metric)	measuring tape 9.8 ft. (3m)
1	**KAK9**	allen keys
1	**HB18**	retractable cutter
1	**HKS6**	pocket hacksaw
1	**LVL150**	level 5.9 in.
1	**HMR300**	hammer

ABS case kit VAL-GPTP-2

Main Features

Type	Dimensions in. Length	Width	Height	Kit Weight lbs
KIT-VAL-GPTP-2	17.8	13.1	7.5	18.1

Case VAL-GPTP equipped with selection of tools.

Tools contained in the kit:

Qty	Type	Description
1	**SC5X**	scissors SC5X
1	**SDC3X60-PD**	mains tester
1	**SDC3X100-KV**	screwdriver 0.12x3.9
1	**SDC3.5X100-KV**	screwdriver 0.14x3.9
1	**SDC4X100-KV**	screwdriver 0.16x3.9
1	**SDC5.5X125-KV**	screwdriver 0.22x4.9
1	**SDC1PH-KV**	screwdriver ph1
1	**SDC2PH-KV**	screwdriver ph2
1	**SDC1PZ-KV**	screwdriver pz1
1	**SDC2PZ-KV**	screwdriver pz2
1	**UPC180-KV**	pliers 7.1 in.
1	**TR160-KV**	nippers 6.3 in
1	**HB14**	wire stripper 24-10 AWG
1	**FLS5** (metric)	measuring tape 16.4 ft. (5m)
1	**KAK9**	allen keys
1	**KRK4**	spanners with ratchet
1	**UKC4**	universal key
1	**HB18**	retractable cutter
1	**HKS6**	pocket hacksaw
1	**LVL150**	level 5.9 in.
1	**HMR300**	hammer

VAL-GPTA-N

PROFESSIONAL TOOL HOLDERS

hard line

AL · ERGONOMIC · ONE HAND · BALANCED · DURABLE

Case VAL-GPTA-N

Main Features

Type	Dimensions in. Length	Width	Height	Weight lbs.
VAL-GPTA-N	*18.5*	*14.2*	*7.3*	*10.6*

Aluminium case containing two panels with elastic tool holders and an internal pocket for holding documents or a tablet. Thermoformed base with modular dividers. Fitted with an ergonomic carrying handle and a hinged lid with stop to limit the opening to 90°.
Equipped with shoulder strap.

KIT-VAL-GPTA-1
KIT-VAL-GPTA-2

Case Kit VAL-GPTA-1

Main Features

Type	Dimensions in.			Kit Weight lbs
	Length	Width	Height	
KIT-VAL-GPTA-1	*18.5*	*14.2*	*7.3*	*16.3*

Case VAL-GPTA-N equipped with selection of tools.

Tools contained in the kit:

Qty	Type	Description
1	**SC5X**	scissors SC5X
1	**SDC3X60-PD**	mains tester
1	**SDC3X100-KV**	screwdriver 0.12x3.9
1	**SDC3.5X100-KV**	screwdriver 0.14x3.9
1	**SDC4X100-KV**	screwdriver 0.16x3.9
1	**SDC5.5X125-KV**	screwdriver 0.22x4.9
1	**SDC1PH-KV**	screwdriver ph1
1	**SDC2PH-KV**	screwdriver ph2
1	**SDC1PZ-KV**	screwdriver pz1
1	**SDC2PZ-KV**	screwdriver pz2
1	**UPC180-KV**	pliers 7.1 in.
1	**FLS3** (metric)	measuring tape 9.8 ft. (3m)
1	**KAK9**	allen keys
1	**HB18**	retractable cutter
1	**HKS6**	pocket hacksaw
1	**LVL150**	level 5.9 in.
1	**HMR300**	hammer

Case Kit VAL-GPTA-2

Main Features

Type	Dimensions in.			Kit Weight lbs
	Length	Width	Height	
KIT-VAL-GPTA-2	*18.5*	*14.2*	*7.3*	*21.2*

Case VAL-GPTA-N equipped with selection of tools.

Tools contained in the kit:

Qty	Type	Description
1	**SC5X**	scissors SC5X
1	**SDC3X60-PD**	mains tester
1	**SDC3X100-KV**	screwdriver 0.12x3.9
1	**SDC3.5X100-KV**	screwdriver 0.14x3.9
1	**SDC4X100-KV**	screwdriver 0.16x3.9
1	**SDC5.5X125-KV**	screwdriver 0.22x4.9
1	**SDC1PH-KV**	screwdriver ph1
1	**SDC2PH-KV**	screwdriver ph2
1	**SDC1PZ-KV**	screwdriver pz1
1	**SDC2PZ-KV**	screwdriver pz2
1	**UPC180-KV**	pliers 7.1 in.
1	**TR160-KV**	nippers 6.3 in
1	**HB14**	wire stripper 24-10 AWG
1	**FLS5** (metric)	measuring tape 16.4 ft. (5m)
1	**KAK9**	allen keys
1	**KRK4**	spanners with ratchet
1	**UKC4**	universal key
1	**HB18**	retractable cutter
1	**HKS6**	pocket hacksaw
1	**LVL150**	level 5.9 in.
1	**HMR300**	hammer

ERGONOMIC ONE HAND BALANCED DURABLE

Trolley TRL02

Main Features

Type	Dimensions in. Length	Width	Closed handle height	Open handle height	Weight lbs
TRL02	*18.9*	*9.8*	*15.7*	*40.3*	*9.5*

Practical trolley mounted tool bag made of robust fabric, with 2 separate internal compartments to neatly arrange hand tools.
Easy front opening access and handy hooks, external pockets providing additional space and a document pouch on the inside of the lid.

Leave your footprint!

Logo max dimensions

Length in.	Height in.
7.9	4.7

KIT-TRL02-1
KIT-TRL02-2

Trolley kit

Trolley Kit TRL02-1

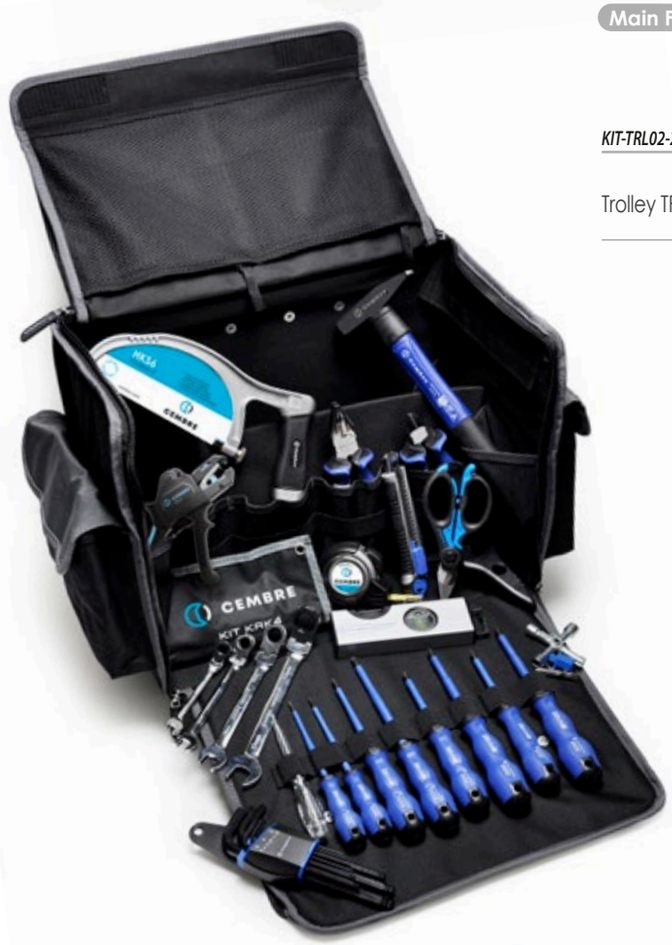
Main Features

Type	Dimensions in.				Weight Kit lbs
	Length	Width	Closed handle height	Open handle height	
KIT-TRL02-1	*18.9*	*9.8*	*15.7*	*40.3*	*15.0*

Trolley TRL02 equipped with selection of tools.

Tools contained in the kit:

Qty	Type	Description
1	**SC5X**	scissors SC5X
1	**SDC3X60-PD**	mains tester
1	**SDC3X100-KV**	screwdriver 0.12x3.9
1	**SDC3.5X100-KV**	screwdriver 0.14x3.9
1	**SDC4X100-KV**	screwdriver 0.16x3.9
1	**SDC5.5X125-KV**	screwdriver 0.22x4.9
1	**SDC1PH-KV**	screwdriver ph1
1	**SDC2PH-KV**	screwdriver ph2
1	**SDC1PZ-KV**	screwdriver pz1
1	**SDC2PZ-KV**	screwdriver pz2
1	**UPC180-KV**	pliers 7.1 in.
1	**FLS3** (metric)	measuring tape 9.8 ft. (3m)
1	**KAK9**	allen keys
1	**HB18**	retractable cutter
1	**HKS6**	pocket hacksaw
1	**LVL150**	level 5.9 in.
1	**HMR300**	hammer



Trolley Kit TRL02-2

Main Features

Type	Dimensions in.				Weight Kit lbs
	Length	Width	Closed handle height	Open handle height	
KIT-TRL02-2	*18.9*	*9.8*	*15.7*	*40.3*	*17.6*

Trolley TRL02 equipped with selection of tools.

Tools contained in the kit:

Qty	Type	Description
1	**SC5X**	scissors SC5X
1	**SDC3X60-PD**	mains tester
1	**SDC3X100-KV**	screwdriver 0.12x3.9
1	**SDC3.5X100-KV**	screwdriver 0.14x3.9
1	**SDC4X100-KV**	screwdriver 0.16x3.9
1	**SDC5.5X125-KV**	screwdriver 0.22x4.9
1	**SDC1PH-KV**	screwdriver ph1
1	**SDC2PH-KV**	screwdriver ph2
1	**SDC1PZ-KV**	screwdriver pz1
1	**SDC2PZ-KV**	screwdriver pz2
1	**UPC180-KV**	pliers 7.1 in.
1	**TR160-KV**	nippers 6.3 in
1	**HB14**	wire stripper 24-10 AWG
1	**FLS5** (metric)	measuring tape 16.4 ft. (5m)
1	**KAK9**	allen keys
1	**KRK4**	spanners with ratchet
1	**UKC4**	universal key
1	**HB18**	retractable cutter
1	**HKS6**	pocket hacksaw
1	**LVL150**	level 5.9 in.
1	**HMR300**	hammer

VAL-GPT
KIT-VAL-GPT

PROFESSIONAL TOOL HOLDERS

hard line

ERGONOMIC ONE HAND BALANCED DURABLE

Chest VAL-GPT

Main Features

Type	Dimensions in. Length	Width	Height	Weight lbs
VAL-GPT	*21.9*	*9.1*	*9.6*	*8.2*

Plastic tool chest with small parts holder on the lid; Removable internal tool tray. Metal latches; Aluminium handle and padlock facility.
Sufficiently robust to be used as a step when closed.
Stackable with other VAL GPT tool chests.

Chest Kit VAL-GPT-1

Main Features

Type	Dimensions in. Length	Width	Height	Weight Kit lbs
KIT-VAL-GPT-1	*21.9*	*9.1*	*9.6*	*12.1*

VAL GPT equipped with selection of tools

Tools contained in the kit:

Qty	Type	Description
1	**SC5X**	scissors SC5X
1	**SDC3X60-PD**	mains tester
1	**SDC3.5X100-KV**	screwdriver 3,5x100
1	**SDC4X100-KV**	screwdriver 4x100
1	**SDC5.5X125-KV**	screwdriver 5,5x125
1	**SDC6.5X150-KV**	screwdriver 6,5x150
1	**SDC1PH-KV**	screwdriver ph1
1	**SDC2PH-KV**	screwdriver ph2
1	**TR160KV**	nippers 160mm
1	**FLS3** (metric)	measuring tape 9.8 ft. (3m)
1	**HB18**	retractable cutter
1	**HKS6**	pocket hacksaw
1	**LVL150**	level 150 mm
1	**HMR300**	hammer

CTBB1
KIT-CTBB1

pouch

Pouch CTBB1

Main Features

Type	Dimensions in. Length	Width	Height	Weight lbs
CTBB1	*9.1*	*5.9*	*2.0*	*0.19*

Made from soft and strong fabric, equipped with a fast stud belt fastening. It has handy preformed compartments for holding pliers, scissors and screwdrivers.

Leave your footprint!

Logo max dimensions

Length in.	Height in.
1.4	1.4

With SC5X scissor

Pouch Kit CTBB1-1

Main Features

Type	Dimensions in. Length	Width	Height	Weight Kit lbs
KIT-CTBB1-1	*9.1*	*5.9*	*2.0*	*1.1*

CTBB1 equipped with selection of tools.

Tools contained in the kit:

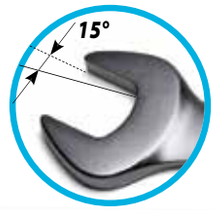
Qty	Type	Description
1	**SC5X**	scissors SC5X
1	**SDC3X100-KV**	screwdriver 0.12x3.9
1	**SDC3.5X100-KV**	screwdriver 0.14x3.9
1	**SDC4X100-KV**	screwdriver 0.16x3.9
1	**SDC1PH-KV**	screwdriver ph1
1	**SDC2PH-KV**	screwdriver ph2

CW

PROFESSIONAL SPANNERS

in Chromium-vanadium steel

ERGONOMIC · ONE HAND · BALANCED · DURABLE · CHROMIUM VANADIUM STEEL



CW Combination Spanners

Main Features

Type	⬡ in.	Open width in.	Ring width in.	Open thickness in.	Ring thickness in.	Total Length in.	Weight lbs
CW60	0.24	0.63	0.39	0.16	0.20	4.3	0.03
CW70	0.28	0.67	0.43	0.16	0.20	4.7	0.04
CW80	0.31	0.75	0.51	0.16	0.24	5.1	0.05
CW100	0.39	0.90	0.63	0.20	0.28	5.9	0.08
CW110	0.43	1.02	0.67	0.20	0.28	6.3	0.10
CW130	0.51	1.18	0.79	0.24	0.31	7.1	0.15
CW140	0.55	1.26	0.83	0.24	0.31	7.5	0.17
CW150	0.59	1.34	0.91	0.24	0.39	7.9	0.19
CW170	0.67	1.46	1.02	0.28	0.39	7.9	0.27
CW180	0.71	1.54	1.06	0.28	0.43	9.1	0.33
CW190	0.75	1.61	1.10	0.28	0.43	9.4	0.37
CW220	0.87	1.85	1.26	0.31	0.51	10.6	0.50
CW240	0.94	2.0	1.38	0.31	0.55	11.4	0.65
CW270	1.10	2.2	1.54	0.35	0.59	12.6	0.82
CW300	1.20	2.4	1.69	0.39	0.59	13.8	1.05
CW320	1.26	2.6	1.81	0.39	0.63	14.6	1.28

- Chromium-vanadium steel tools
- Satin chrome finish.
- Ring head with 12 grip points, offset with respect to the handle to enable use in narrow spaces
- Open head tilted at 15° to reduce effort applied
- Standards: UNI ISO 3318 - ISO 7738 - DIN 3113

ERGONOMIC · ONE HAND · BALANCED · DURABLE · CHROMIUM VANADIUM STEEL

KCW12 Combination Spanner Set

KCW12

Main Features

Type	Dimensions kit in. Length	Width	Height	Weight lbs
KCW12	18.1	14.3	2.6	2.51

Set includes:

KCW12:
CW60 - CW70 - CW80 - CW100 - CW110
CW130 - CW140 - CW150 - CW170 - CW180
CW190 - CW220

Type	in.
CW60	0.24
CW70	0.28
CW80	0.31
CW100	0.39
CW110	0.43
CW130	0.51
CW140	0.55
CW150	0.59
CW170	0.67
CW180	0.71
CW190	0.75
CW220	0.87

KCW16 Combination Spanner Set

KCW16

Main Features

Type	Dimensions kit in. Length	Width	Height	Weight lbs
KCW16	28.0	18.9	3.1	7.17

Set includes:

KCW16:
CW60 - CW70 - CW80 - CW100 - CW110
CW130 - CW140 - CW150 - CW170 - CW180
CW190 - CW220 - CW240 - CW270 - CW300 - CW320

Type	in.
CW60	0.24
CW70	0.28
CW80	0.31
CW100	0.39
CW110	0.43
CW130	0.51
CW140	0.55
CW150	0.59
CW170	0.67
CW180	0.71
CW190	0.75
CW220	0.87
CW240	0.94
CW270	1.10
CW300	1.20
CW320	1.26

KRK
KRS

PROFESSIONAL SPANNERS

in Chromium-vanadium steel

ERGONOMIC · ONE HAND · BALANCED · DURABLE · CHROMIUM VANADIUM STEEL

Combination spanners with jointed ratchet head KRK4

Main Features

Type	Dimensions kit in. Length	Width	Height	Weight lbs
KRK4	*13.2*	*7.5*	*0.7*	*0.86*

- Sizes included: 0.31-0.39-0.51-0.67 in.
- Chromium-vanadium steel
- 180° swivel head
- Ratchet mechanism with 72 teeth and recovery angle of 5°.

Socket set ¼" drive KRS47

Main Features

Type	Dimensions kit in. Length	Width	Height	Weight lbs
KRS47	*11.2*	*5.4*	*1.7*	*3.65*

- Standards: UNI ISO 3315 - DIN 3122

Metal case contains:

Qty	description
1	reversible ratchet wrench with socket retention system
2	extensions
1	articulated joint
1	T bar with sliding handle
1	screwdriver style holder
13	sockets 0.16 to 0.55 in.
4	extended sockets 0.31 to 0.51 in.
3	screwdriver sockets 0.16 to 0.26 in.
3	screwdriver sockets PH1, PH2, PH3
3	screwdriver sockets PZ1, PZ2, PZ3
6	hex socket spanners 0.12 to 0.31 in.
3	hex Allen keys 0.06 to 0.20 in.
6	torx socket keys T10 to T40

PROFESSIONAL TORQUE WRENCHES

in Chromium-vanadium steel

TWC

Cembre professional reversible torque wrench range TWC will provide optimum torque setting when the threaded fastenings are paired with the same size sockets.
Correct tightening of threaded fastenings prevents:
- thread damage in case of high loading
- unintentional loosening in case of low loading

ERGONOMIC · ONE HAND · BALANCED · DURABLE · CHROMIUM VANADIUM STEEL

TWC10.50-14 Torque Wrench

Main Features

Type	Dimensions in. Length	Width	Head Width	Weight lbs
TWC10.50-14	12.9	1.4	1.1	1.45

- Adjustment range Nm: 10-50
- Drive size in.: 1/4

TWC20.100-38 Torque Wrench

Main Features

Type	Dimensions in. Length	Width	Head Width	Weight lbs
TWC20.100-38	17.1	1.8	1.4	2.86

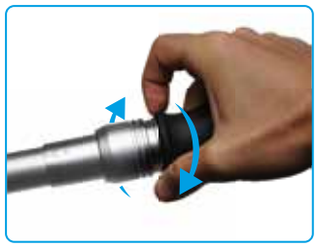
- Adjustment range Nm: 20-100
- Drive size in.: 3/8

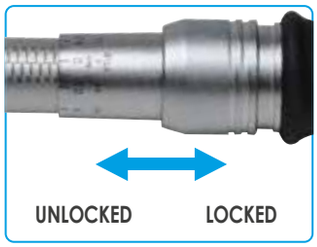
TWC40.200-12 Torque Wrench

Main Features

Type	Dimensions in. Length	Width	Head Width	Weight lbs
TWC40.200-12	20.1	1.8	1.6	3.32

- Adjustment range Nm: 40-200
- Drive size in.: 1/2





CEMBRE

DSC KA CRH EBC STBC

PROFESSIONAL SOCKETS & DRIVES

in Chromium-vanadium steel

ERGONOMIC · ONE HAND · BALANCED · DURABLE · CHROMIUM VANADIUM STEEL

Deep hexagonal sockets ½" drive DSC

Main Features

Type	⬡ in.	Dimensions in. Length	Ø Ext. hexagon	Ø Ext. drive	Weight lbs
DSC12-170L	0.67	3.0	0.94	0.87	0.26
DSC12-190L	0.75	3.0	1.01	0.94	0.29
DSC12-240L	0.94	3.0	1.25	1.09	0.46
DSC12-300L	1.20	3.0	1.57	1.34	0.66
DSC12-320L	1.26	3.0	1.65	1.41	0.74

- Chromium-vanadium steel • Satin chrome finish
- Standards: UNI ISO 2725 - DIN 3124

Adapters KA

Main Features

Type	Dimensions in. Length	□ Female	■ Male	Ø Female	Weight lbs
KA14-38	1.04	1/4	3/8	0.55	0.05
KA38-14	1.03	3/8	1/4	0.74	0.06
KA38-12	1.42	3/8	1/2	0.76	0.11
KA12-38	1.41	1/2	3/8	0.85	0.11

- Chromium-vanadium steel • Satin chrome finish
- Standards: UNI ISO 3316 - DIN 3123

½" Reversible ratchet wrench CRH12

Main Features

Type	Dimensions in. Length	Height	Head Width	Weight lbs
CRH12	10.2	1.50	1.57	1.2

- Mechanism with 72 teeth and a recovery angle of 5°
- Reversible ratchet system • Ergonomic handle in dual-compound material
- Satin chrome finish • Chromium-vanadium steel
- Standards: UNI ISO 3315 - DIN 3122

½" Drive extension 9.84 in. long EBC12-250

Main Features

Type	Length in.	Weight lbs
EBC12-250	9.8	0.97

- Socket quick release system • Chromium-vanadium steel
- Satin chrome finish
- Standards: UNI ISO 3316 - DIN 3123

½" Drive T bar with sliding handle STBC12-300

Main Features

Type	Dimensions in. Length	Height	Head Width	Weight lbs
STBC12-300	11.8	0.98	0.94	0.80

- Chromium-vanadium steel • Satin chrome finish
- Standards: UNI ISO 3315 - DIN 3122

PROFESSIONAL SPANNERS & SOCKETS

AWC

in Chromium-vanadium steel

ERGONOMIC · ONE HAND · BALANCED · DURABLE · CHROMIUM VANADIUM STEEL

Adjustable wrench AWC300

Main Features

Type	Dimensions in.			
	Max Opening	Length	Width	Weight lbs
AWC300	*1.34*	*11.8*	*-*	*1.37*

- Chromium-vanadium steel wrench
- Phosphate finish
- Equipped with rapid adjustment and gap size measurement scale
- Wide-opening jaws for greater adaptability

PROFESSIONAL SPANNERS & SOCKETS

KAK

in Chromium-vanadium steel

ERGONOMIC · ONE HAND · BALANCED · DURABLE · CHROMIUM VANADIUM STEEL

Set of 9 male Allen keys KAK9

Main Features

Type	Dimensions kit in.			
	Length	Width	Height	Weight lbs
KAK9	*11.8*	*3.9*	*1.2*	*0.95*

- Sizes included: 0.06 - 0.08 -0.10 - 0.12 - 0.16 - 0.20 - 0.24 - 0.31 - 0.39 in.
- Chromium-vanadium steel
- Long reach type
- Spherical head for use up to 30°
- Equipped with carrying case

Tool dimensions

A/F (in.)	(in.)	(in.)
0.06	3.1	0.55
0.08	3.3	0.63
0.10	3.6	0.71
0.12	4.0	0.79
0.16	4.3	0.94
0.20	4.8	1.10
0.24	5.7	1.26
0.31	6.4	1.42
0.39	7.0	1.57

HMR BLC CPC CPW

PROFESSIONAL HAMMERS & REMOVAL TOOLS

for various uses

Hammer HMR300

Main Features

Type	Dimensions in. Length	Width	Height	Weight lbs
HMR300	*11.8*	*4.1*	*0.9*	*0.66*

0.66 lbs bench hammer with patented anti-vibration triple compound handle.
Aluminium alloy 6082 T6 P-Al Si 1 Mg Mn head.
External surface of the handle in Polyamide A2800.
Thermoplastic rubber grip.
Complete with handle sleeve.

Hammer HMR500W

Main Features

Type	Dimensions in. Length	Width	Height	Weight lbs
HMR500W	*12.6*	*4.2*	*1.1*	*1.10*

1.10 lbs bench hammer with Ash handle.
Complete with handle sleeve.

Chisel with hand protector BLC250

Main Features

Type	Dimensions in. Total length	Blade width	Ø shaft	Ø handle	Weight lbs
BLC250	*9.8*	*0.9*	*0.6*	*1.3*	*1.10*

0.9 in. Chromium-vanadium steel blade with sturdy thermoplastic hand protector

Centre Punch CPC100-8

Main Features

Type	Dimensions in. Length	Tip	Hexagon	Weight lbs
CPC100-8	*3.9*	*0.1*	*0.3*	*0.12*

Chromium-vanadium steel with Chrome finish

Crowbar CPW500

Main Features

Type	Dimensions in. Length	Ø Hex. square	Weight lbs
CPW500	*19.7*	*0.63*	*2.61*

Hexagonal section
C40 steel

Retractable Cutter HB18

Main Features

Type	Dimensions in. Length	Height	Width	Weight lbs
HB18	*6.7*	*1.3*	*0.67*	*0.49*

Replaceable blade, adjustable from 0.71 in. and internal autoloader with 5 blades. Steel blade, metal handle, with soft Rubber anti-slip coating.
Safety lock for blade.

Hacksaw HKS12

Main Features

Type	Dimensions in. Length	Height	Width	Weight lbs
HKS12	*15.7*	*5.5*	*1.3*	*1.32*

Hacksaw with 11.8 in. blade, dual-compound plastic frame, with soft anti-slip handle for a firm and secure grip.
Tensioner in the handle.

Hacksaw HKS6

Main Features

Type	Dimensions in. Length	Height	Width	Weight lbs
HKS6	*10.6*	*4.5*	*0.8*	*0.47*

Hacksaw with 5.9 in. blade, metal frame, with 6 adjustments of the angle of the blade.
Soft Rubber anti-slip handle.

Blade BL12HKS

BL12HKS Spare blade for HKS12 (5 pieces)

Blade BL6HKS

BL6HKS Spare blade for HKS6 (10 pieces)

Files SFC200 - RFC200

Main Features

Second-cut square file	File Section in.	File Length in.	handle Length in.	Total Length in.	Weight lbs
SFC200	*0.31*	*7.9*	*4.3*	*12.2*	*0.24*
Second-cut round file	**File diam. in.**	**File Length in.**	**handle Length in.**	**Total Length in.**	**Weight lbs**
RFC200	*0.33*	*7.9*	*4.3*	*12.2*	*0.25*

Carbide steel
Hardness 62±2 HRC

Digital Multimeter CM02

Main Features

Type	Dimensions in.			Weight lbs
	Length	Width	Height	
CM02	*7.5*	*3.7*	*1.8*	*0.88*

TRMS

For measuring:

- AC Current and Voltage, True-rms for accurate check of non-linear signals.
- AC/DC Voltage up to 750V~ and 1.000V=
- AC/DC Current up to 10A
- Resistance
- Continuity
- Capacitance
- Frequency

Special Functions

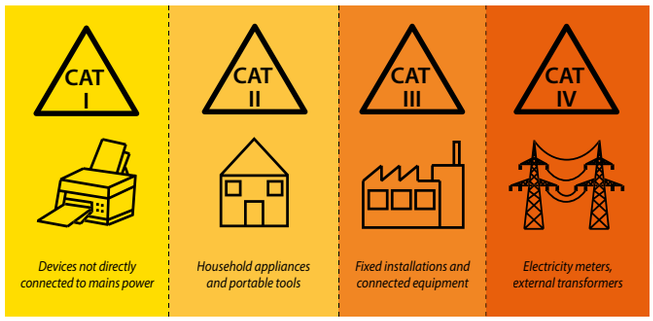
- Data Hold
- Diode Test
- Transistor hFE Test
- Continuity Buzzer
- Temperature Probe (supplied)
- Auto Power Off

Standards: EN 61326-1: 2006 & CE marking

CM02 Specification

Basic Function	Range	Best Accurancy
DC Voltage	400mV/4V/40V/400V/1000V	±(0.5%+4)
AC Voltage	400mV/4V/40V/400V/1000V	±(0.8%+10)
DC Current	400µA/4000µA/40mA/400mA/10A	±(1%+10)
AC Current	400µA/4000µA/40mA/400mA/10A	±(1.5%+10)
Resistance	400Ω/4KΩ/40KΩ/400KΩ/4MΩ/40MΩ	±(0.8%+4)
Capacitance	10nF	±(5%+20)
	100Nf/1µF/10µF/100µF	±(3.5%+8)
	1mf/10mF/100mF	±(5%+10)
Frequency	100/1000/10k/100k/1M/30Mhz	±(0.5%+10)
Temperature	(-20-33.8)°F	±(1.0%+5)

Overvoltage category CAT IV - 600V



Spirit Levels LVL150 – LVL200 – LVL400

Main Features

Type	Dimensions in.		No. of tubes	Weight lbs
	Length	Width		
LVL150	5.9	0.9	2	0.23
LVL200	7.9	0.9	2	0.35
LVL400	15.7	0.9	2	0.55

Made from robust Aluminium profile, with precision 0.02 to 0.04 in.
Shock resistant tubes and high absorption protective caps.

Conical stepped drill-bit SC-PG1

Main Features

Type	Hole Ø range in.	Steps N°	Steps Height in.	Drill size in. Length	Drill size in. Stem Ø	Weight lbs
SC-PG1	*0.24 - 1.46*	*12*	*0.08*	*3.9*	*0.39*	*0.65*

- Point geometry according to DIN 1412 C
- No pre-drilling
- Step angle 90

SC-PG1 - Hole sizes:

Step	Hole Ø in.	Clearance for PG thread
1	**0.24**	-
2	**0.35**	-
3	**0.49**	7
4	**0.60**	9
5	**0.73**	11
6	**0.80**	13.5
7	**0.89**	16
8	**1.02**	-
9	**1.11**	21
10	**1.20**	-
11	**1.34**	-
12	**1.46**	29

Conical stepped drill-bits - General characteristics

- Spiral shape facilitates quiet operation, precision of cut and removal of swarf
- Cutting capability unaffected by prolonged use
- Suitable for use on Ferrous metals and Thermoplastic materials up to 4 mm thickness
- Material: Cubic Boron Nitride (CBN)
- Corner point 118°
- Polished surface

Conical stepped drill-bit SC-M1

Main Features

Type	Hole Ø range in.	Steps N°	Steps Height in.	Drill size in. Length	Drill size in. Stem Ø	Weight lbs
SC-M1	*0.26 - 1.6*	*11*	*0.08*	*3.8*	*0.39*	*0.67*

- Point geometry according to DIN 1412 C
- No pre-drilling
- Step angle 90

SC-M1 - Hole sizes:

Step	Hole Ø in.	Clearance for Metric thread
1	**0.26**	-
2	**0.33**	-
3	**0.41**	-
4	**0.49**	M12
5	**0.65**	M16
6	**0.81**	M20
7	**1.00**	M25
8	**1.14**	-
9	**1.28**	M32
10	**1.44**	-
11	**1.59**	M40

Conical countersink SK9038

Main Features

Type	Head Dimensions in. Length	Head Dimensions in. Ø	Total Length in.	Weight lbs
SK9038	*0.41*	*0.49*	*5.8*	*0.28*

Conical flaring for unalloyed steels, with ergonomic handle in two component material.
- 90° head angle
- 6-edged head
- Maximum diameter of flaring 1.5 in.

Sets of 19 Spiral Drill-Bits SB19

Main Features

Ideal for STEEL

Type

SB19

High speed, high performance, steel spiral drill-bits.
Cross-wise sharpening allows for good balance, reducing strain during the operation.
Spiral angle: 25-30°
Groove profile: standard
Core: standard
Back angle: 118°
Point geometry: Shape C
Weight: 1.6 lbs
Main use: Steel N/mm² <900, Cast iron
Secondary use: Steel N/mm² <1100, Stainless steel, Alluminium, Brass, Bronze.

Type

SB19-TIN

As type SB19 with additional:
TiN coating to increase operating life by 300 - 400%

SB19-TIN

SB19

Spiral Drill-bits SB19:

Spiral Drill-bits SB19-TIN:

Ø	*Length in.*	
in.	*Total*	*Useable*
0.04	1.3	0.5
0.06	1.6	0.7
0.08	1.9	0.9
0.10	2.2	1.2
0.12	2.4	1.3
0.14	2.8	1.5
0.16	3.0	1.7
0.18	3.2	1.9
0.20	3.4	2.0
0.22	3.7	2.2
0.24	3.7	2.2
0.26	4.0	2.5
0.28	4.3	2.7
0.30	4.3	2.7
0.31	4.6	3.0
0.33	4.6	3.0
0.35	4.9	3.2
0.37	4.9	3.2
0.39	5.2	3.4

Set of 7 Hammer Drill-Bits SB7-SDS-PLUS

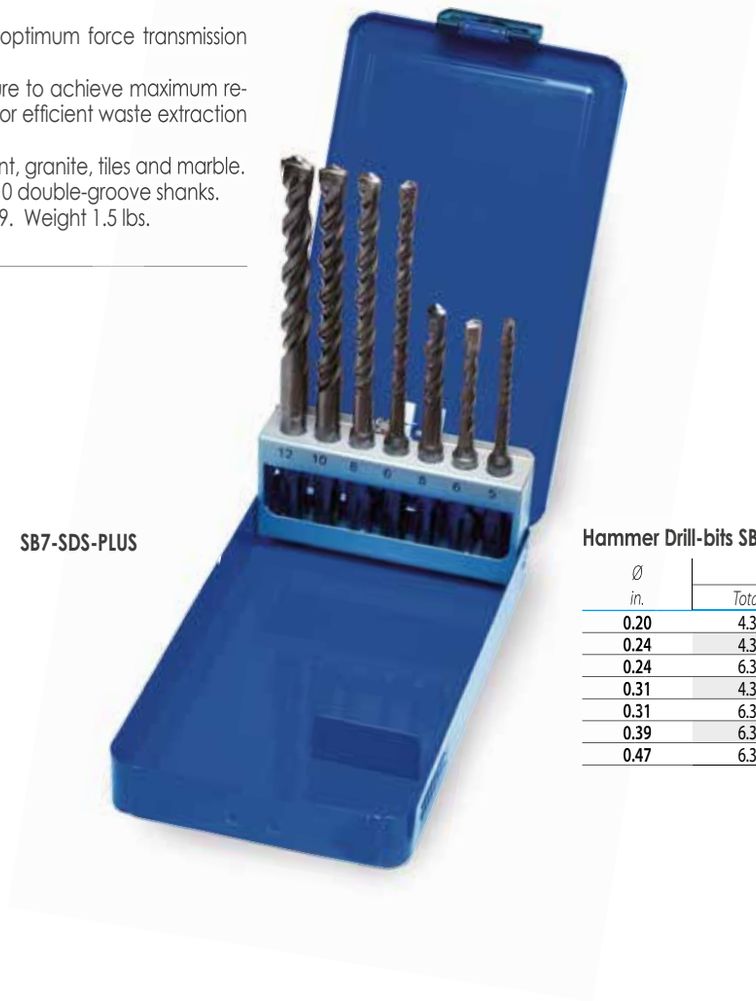
Main Features

Ideal for WALL

Type

SB7-SDS-PLUS

Drill-bits with a strengthened core, to allow optimum force transmission from start to finish.
Made from steel worked at a low temperature to achieve maximum resistance, and created with a spiral structure for efficient waste extraction during opeartion.
Suitable for rock, brick work, concrete, cement, granite, tiles and marble.
Fits all hammer drills with SDS-Plus and Hilti TE 10 double-groove shanks.
Corresponding to standard: ISO 5468-DIN 8039. Weight 1.5 lbs.



SB7-SDS-PLUS

Hammer Drill-bits SB7-SDS-PLUS:

Ø	Length in.	
in.	Total	Useable
0.20	4.3	1.97
0.24	4.3	1.97
0.24	6.3	3.94
0.31	4.3	1.97
0.31	6.3	3.94
0.39	6.3	3.94
0.47	6.3	3.94

HYDRAULIC TOOLS AND HEADS

SYMBOL DESCRIPTION

hydraulic crimping tools and cutters

Crimping force tons

Double speed action: a rapid approach speed and a slower more powerful speed for crimping or cutting

Openable compression head, ideal for derivations from running conductors

Openable cutting head, ideal for cutting running cables

Tool with a large 1.7 in. jaw opening, for easier introduction/removal of large size compression terminations and joints

Blades manufactured from high strength special Steel, heat treated to ensure a long service life

Max cutting diameter

Max hole punching diameter

The head can rotate to enable the operator to work in the most comfortable position

Can be operated with one hand

Provided with a maximum pressure valve that allows to check the correct execution of the compressions or the limit switch control of the blades

Manual pressure release button

Ergonomically designed with a sculptured body for operator comfort

Lightweight and balanced tool for greater control

Dual-compound plastic handles.
Greater safety and comfort in handling, thanks to the rubber inserts

Durable moulded body offering high resistance to wear and damage in all operating conditions

CE marking

UKCA marking

SYMBOL DESCRIPTION

hydraulic crimping tools and cutters

HEXAGONAL — Hexagonal crimp

RADIAL — Radial crimp

INDENT — Indent crimp

DEEP INDENT — Deep indent crimp

OVAL — Oval crimp

TRAPEZIUM — Trapezium crimp

CIRCULAR — Circular crimp

10,000 psi — Max operating pressure

ISOLATED — Contains isolated oil

60kV — Hydraulic units provide protection against short circuit when accidentally cutting live L.V. / M.V. cables with nominal voltage up to 60 kV

CEMBRE

HT45-E

HYDRAULIC CRIMPING TOOL

general features

MAIN APPLICATIONS - max section AWG

Section AWG	22÷16	16÷14	12÷10	8	6	4	2	1/0	2/0	3/0	250 MCM	300 MCM	350 MCM	500 MCM	600 MCM	800 MCM	1000 MCM	1250 MCM	1500 MCM	2000 MCM
L.V. lugs and splices			■	■	■	■	■	■	■	■	■	■								
"C" sleeve Connectors			■	■	■	■	■													
H.V. lugs and splices				■	■	■	■	■	■											

These tools are supplied without dies. For die selection, please refer to chart on pages 286 to 300

TECHNICAL FEATURES

Crimping force tons	*6*
Dimensions in.	
Length	*13.6*
Width	*5.1*
Weight lbs.	*4.4*

STORAGE

Type	*VAL-P1**
Dimensions in. L x W x H	*17.52 x 11.42 x 3.74*
Weight lbs.	*2.6*
Supplied with the tool	✓

*Suitable for storage of the tool and 20 sets of dies

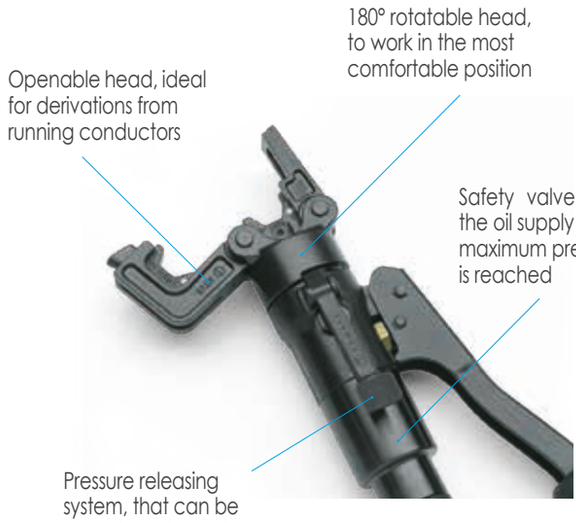
Lightweight and compact, this tool is ideal for the compression of connectors for general applications.

Having the benefit of spring loaded handles, the dies can be advanced using only one hand; therefore leaving the other hand free to position the connector.

For ease of operation and comfort of the operator, the tool head can be fully rotated through 180 degrees.

The built-in safety valve will by-pass the oil supply when the maximum pressure is reached, and a pressure releasing system can easily be operated at any stage of the compression.

The operator can advance the dies using only one hand, leaving the other hand free to position the connector.



HYDRAULIC CRIMPING TOOL

HT51

general features

MAIN APPLICATIONS - max section AWG

Section AWG	22÷16	16÷14	12÷10	8	6	4	2	1/0	2/0	3/0	250 MCM	300 MCM	350 MCM	400 MCM	500 MCM	600 MCM	800 MCM	1000 MCM	1250 MCM	1500 MCM	2000 MCM
L.V. lugs and splices			■	■	■	■	■	■	■	■	■	■	■	■	■						
Insulated terminals				■	■	■	■	■	■	■	■										
End sleeves					■	■	■	■	■	■	■										
"C" sleeve Connectors			■	■	■	■	■	■	■												

These tools are supplied without dies. For die selection, please refer to chart on pages 286 to 300

STORAGE

Type	*VAL-P1**
Dimensions in. L x W x H	*17.52 x 11.42 x 3.74*
Weight lbs.	*2.6*
Supplied with the tool	✓

** Suitable for storage of the tool and 20 sets of dies*

TECHNICAL FEATURES

Crimping force tons	*6*
Dimensions in.	
Length	*15.0*
Width	*5.1*
Weight lbs.	*5.9*

HT51-KV version also available for Power Supply Companies

Two stage hy-draulic tool, lightweight, compact and ideal for working in confined spaces.

HT51 develops a crimping force of 6 tons for installing electrical connectors on Copper cables up to 500 MCM.
Spring loaded handles allow the operator to advance the dies with one hand, leaving the other free to position the connector.

For ease of operation and comfort of the operator, the tool head rotates 180 degrees.

The built-in safety valve will by-pass the oil supply when the maximum pressure is reached, and a pressure releasing system can easily be operated at any stage of the compression.

CEMBRE

RH50

HYDRAULIC PRESSHEAD

general features

6 tons | 10,000 psi | HEAD OPENING | DURABLE | CE | UKCA | HEXAGONAL | OVAL | RADIAL | INDENT

MAIN APPLICATIONS - max section AWG

Section AWG	22÷16	16÷14	12÷10	8	6	4	2	1/0	2/0	3/0	250 MCM	300 MCM	350 MCM	400 MCM	500 MCM	600 MCM	800 MCM	1000 MCM	1250 MCM	1500 MCM	2000 MCM
L.V. lugs and splices			■	■	■	■	■	■	■	■	■	■	■	■	■	■					
Insulated terminals				■	■	■	■	■	■	■	■										
End sleeves					■	■	■	■	■	■	■										
"C" sleeve Connectors			■	■	■	■	■	■	■												

These tools are supplied without dies. For die selection, please refer to chart on pages 286 to 300

Hydraulic presshead complete with a 3/8" NPT male automatic coupler to be connected to a hydraulic pump developing a maximum pressure of 10,000 psi, (see pages 272-278).
The RH50 head uses the same dies as the HT51.

TECHNICAL FEATURES

Crimping force tons	*6*
Max operating pressure psi	*10,000*
Dimensions in.	
Length	*7.7*
Width	*3.0*
Weight lbs.	*3.5*

STORAGE

Type	*VAL-P1**
Dimensions in. L x W x H	*17.52 x 11.42 x 3.74*
Weight lbs.	*2.6*
Supplied with the tool	✓

** Suitable for storage of the head and 20 sets of dies*

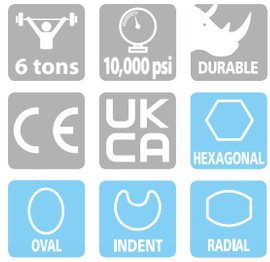
STORAGE

Type	*CVB-007*
Dimensions in. L x W	*13.78 x 4.13*
Weight lbs.	*0.3*
Purchase separately	✓

HYDRAULIC PRESSHEAD

RHM50

general features



MAIN APPLICATIONS - max section AWG

Section AWG	22÷16	16÷14	12÷10	8	6	4	2	1/0	2/0	3/0	250 MCM	300 MCM	350 MCM	400 MCM	500 MCM	600 MCM	800 MCM	1000 MCM	1250 MCM	1500 MCM	2000 MCM
L.V. lugs and splices			■	■	■	■	■	■	■	■	■	■	■	■	■	■					
Insulated terminals				■	■	■	■	■	■	■	■										
End sleeves					■	■	■	■	■	■	■										

These tools are supplied without dies. For die selection, please refer to chart on pages 286 to 300

Particularly suitable for high volume bench crimping.

Hydraulic presshead complete with a 3/8" NPT male automatic coupler to be connected to a hydraulic pump developing a maximum pressure of 10,000 psi, (see pages 272-278).
The RHM50 head uses the same dies as the HT51.

TECHNICAL FEATURES

Crimping force tons	*6*
Max operating pressure psi	*10,000*
Dimensions in.	
Length	*8.3*
Width	*2.8*
Weight lbs.	*3.5*

STORAGE

Type	*VAL-P1**
Dimensions in. L x W x H	*17.52 x 11.42 x 3.74*
Weight lbs.	*2.6*
Supplied with the tool	✓

** Suitable for storage of the head and 20 sets of dies*

STORAGE

Type	*CVB-007*
Dimensions in. L x W	*13.78 x 4.13*
Weight lbs.	*0.3*
Purchase separately	✓

CEMBRE

HT120

HYDRAULIC CRIMPING TOOL

12 tons | SPEED | 180° | MAX PRESSURE | MANUAL RELEASE | ERGONOMIC | BALANCED | DURABLE | HEXAGONAL | OVAL | RADIAL | INDENT

general features

MAIN APPLICATIONS - max section AWG

Section AWG	22÷16	16÷14	12÷10	8	6	4	2	1/0	2/0	3/0	250 MCM	300 MCM	350 MCM	400 MCM	500 MCM	600 MCM	800 MCM	1000 MCM	1250 MCM	1500 MCM	2000 MCM
Copper lugs				■	■	■	■	■	■	■	■	■	■	■	■	■	■				
Copper splices				■	■	■	■	■	■	■	■	■	■	■							
"C" sleeve Connectors				■	■	■	■	■	■	■	■	■	■								

These tools are supplied without dies. For die selection, please refer to chart on pages 286 to 300

This lightweight and self contained tool will accept the semi-circular slotted dies, common to most 12 tons tools (U dies).
It is particularly suitable for installing crimp type electrical connectors for overhead line applications.
The tool features a double speed action: a fast advancing speed for rapid approach of the dies to the connector and a slower more powerful speed for crimping.
For ease of operation and comfort of the operator the tool head can be fully rotated through 180 degrees.
The built-in safety valve will by-pass the oil supply when the maximum pressure is reached, and a pressure release system can easily be operated at any stage of the compression.

TECHNICAL FEATURES	
Crimping force tons	*12*
Dimensions in.	
Length	*19.2*
Width	*5.4*
Jaw opening	*1.0*
Weight lbs.	*12.6*

STORAGE	
Type	*VAL-P3**
Dimensions in. L x W x H	*24.41 x 14.96 x 5.31*
Weight lbs.	*5.5*
Supplied with the tool	✓

*Suitable for storage of the tool and 14 sets of dies

HT 120-KV version also available for Power Supply Companies

HT 120 features a double speed action: a fast advancing speed for rapid approach of the dies to the connector and a slower more powerful speed for crimping.

Die release system, protected from accidental operation

Pressure release trigger, which can be operated at any stage of the compression.

HYDRAULIC CRIMPING TOOL

HT131-C

general features

MAIN APPLICATIONS - max section AWG

Section AWG	22÷16	16÷14	12÷10	8	6	4	2	1/0	2/0	3/0	250 MCM	300 MCM	350 MCM	400 MCM	500 MCM	600 MCM	800 MCM	1000 MCM	1250 MCM	1500 MCM	2000 MCM
Copper lugs				■	■	■	■	■	■	■	■	■	■	■	■	■	■				
Copper splices				■	■	■	■	■	■	■	■	■	■	■							
"C" sleeve Connectors				■	■	■	■	■	■	■	■	■	■								

These tools are supplied without dies. For die selection, please refer to chart on pages 286 to 300

STORAGE

Type	*VAL-P3**
Dimensions in. L x W x H	*24.41 x 14.96 x 5.31*
Weight lbs.	*5.5*
Supplied with the tool	✓

**Suitable for storage of the tool and 14 sets of dies*

TECHNICAL FEATURES

Crimping force tons	*12*
Dimensions in.	
Length	*18.6*
Width	*5.7*
Jaw opening	*1.0*
Weight lbs.	*12.1*

This self contained, robust and sturdy tool, will accept all semi-circular slotted dies, common to most 12 tons tools (U dies).

The tool features a double speed action: a fast advancing speed for rapid approach of the dies to the connector and a slower more powerful speed for crimping.

For ease of operation and comfort of the operator the tool head can be fully rotated through 180 degrees.
The built-in safety valve will by-pass the oil supply when the maximum pressure is reached, and the pressure release system can easily be operated at any stage of compression.

CEMBRE

RHC131

HYDRAULIC PRESSHEAD

12 tons | 10,000 psi | DURABLE | HEXAGONAL | OVAL | RADIAL | INDENT

general features

MAIN APPLICATIONS - max section AWG

Section AWG	22÷16	16÷14	12÷10	8	6	4	2	1/0	2/0	3/0	250 MCM	300 MCM	350 MCM	400 MCM	500 MCM	600 MCM	800 MCM	1000 MCM	1250 MCM	1500 MCM	2000 MCM
Copper lugs				■	■	■	■	■	■	■	■	■	■	■	■	■	■				
Copper splices				■	■	■	■	■	■	■	■	■	■	■							
"C" sleeve Connectors				■	■	■	■	■	■	■	■	■	■								

These tools are supplied without dies. For die selection, please refer to chart on pages 286 to 300

Hydraulic presshead complete with quick automatic coupler for connection to a hydraulic pump with a working pressure of 10,000 psi max, (see pages 272-278). This new design with improved mechanical features, is suitable for installing the same range of connectors as HT131-C.

TECHNICAL FEATURES

Crimping force tons	*12*
Max operating pressure psi	*10,000*
Dimensions in.	
Length	*9.13*
Width	*4.88*
Jaw opening	*1.0*
Weight lbs.	*8.4*

STORAGE

Type	*VAL-P26**
Dimensions in. L x W x H	*17.52 x 11.42 x 4.53*
Weight lbs.	*2.6*
Purchase separately	✓

**Suitable for storage of the head and 14 sets of dies*

RHC131-KV version also available for electrical utilities

RHM132

HYDRAULIC PRESSHEAD

12 tons | 10,000 psi | DURABLE | HEXAGONAL | OVAL | INDENT | RADIAL

general features

MAIN APPLICATIONS - max section AWG

Section AWG	22÷16	16÷14	12÷10	8	6	4	2	1/0	2/0	3/0	250 MCM	300 MCM	350 MCM	400 MCM	500 MCM	600 MCM	800 MCM	1000 MCM	1250 MCM	1500 MCM	2000 MCM
Copper lugs				■	■	■	■	■	■	■	■	■	■	■	■	■	■				

These tools are supplied without dies. For die selection, please refer to chart on pages 286 to 300

Particularly suitable for high volume bench crimping.

Hydraulic presshead complete with quick automatic coupler for connection to a hydraulic pump with a working pressure of 10,000 psi max, (see pages 272-278).

TECHNICAL FEATURES

Crimping force tons	*12*
Max operating pressure psi	*10,000*
Dimensions in.	
Length	*8.50*
Width	*3.15*
Weight lbs.	*6.8*

STORAGE

Type	*VAL-P26**
Dimensions in. L x W x H	*17.52 x 11.42 x 4.53*
Weight lbs.	*2.6*
Purchase separately	✓

**Suitable for storage of the head and 14 sets of dies*

HYDRAULIC CRIMPING TOOL

HT131LN-C

general features

MAIN APPLICATIONS - max section AWG

Section AWG	22÷16	16÷14	12÷10	8	6	4	2	1/0	2/0	3/0	250 MCM	300 MCM	350 MCM	400 MCM	500 MCM	600 MCM	750 MCM	800 MCM	1000 MCM	1250 MCM	1500 MCM	2000 MCM
Copper lugs and splices				■	■	■	■	■	■	■	■	■	■	■	■	■	■	■				
Aluminum lugs and splices				■	■	■	■	■	■	■	■	■	■	■	■	■	■					
"C" sleeve Connectors				■	■	■	■	■	■	■	■	■	■									

These tools are supplied without dies. For die selection, please refer to chart on pages 286 to 300

STORAGE

Type	*VAL-P3**
Dimensions in. L x W x H	*24.41 x 14.96 x 5.31*
Weight lbs.	*5.5*
Supplied with the tool	✓

**Suitable for storage of the tool and 14 sets of dies*

TECHNICAL FEATURES

Crimping force tons	*12*
Dimensions in.	
Length	*21.1*
Width	*5.7*
Jaw opening	*1.7*
Weight lbs.	*15.4*

Hydraulic "C" head tool with a large 1.65 in. jaw opening, for easier introduction/removal of large size compression terminations and joints.
The HT131LN-C will accept all semi-circular slotted dies, common to most 12 tons tools (U dies).

The tool features a double speed action: a fast advancing speed for rapid approach of the dies to the connector and a slower more powerful speed for crimping. For ease of operation and comfort of the operator the tool head can be fully rotated through 180 degrees. The built-in safety valve will by-pass the oil supply when the maximum pressure is reached, and the pressure release system can easily be operated at any stage of compression.

HYDRAULIC PRESSHEAD

RHC131LN

general features

MAIN APPLICATIONS - max section AWG

Section AWG	22÷16	16÷14	12÷10	8	6	4	2	1/0	2/0	3/0	250 MCM	300 MCM	350 MCM	400 MCM	500 MCM	600 MCM	750 MCM	800 MCM	1000 MCM	1250 MCM	1500 MCM	2000 MCM
Copper lugs and splices				■	■	■	■	■	■	■	■	■	■	■	■	■	■	■				
Aluminum lugs and splices				■	■	■	■	■	■	■	■	■	■	■	■	■	■					
"C" sleeve Connectors				■	■	■	■	■	■	■	■	■	■									

These tools are supplied without dies. For die selection, please refer to chart on pages 286 to 300

STORAGE

Type	*VAL-P26**
Dimensions in. L x W x H	*17.52 x 11.42 x 4.53*
Weight lbs.	*2.6*
Purchase separately	✓

**Suitable for storage of the head and 14 sets of dies*

TECHNICAL FEATURES

Crimping force tons	*12*
Max operating pressure psi	*10,000*
Dimensions in.	
Length	*11.7*
Width	*4.8*
Jaw opening	*1.7*
Weight lbs.	*11.9*

Hydraulic head featuring a large 1.65 in. jaw opening; complete with quick automatic coupler for connection to a hydraulic pump with a working pressure of 10,000 psi max, (see pages 272-278). Is suitable for installing the same range of connectors as HT-131LN-C.

CEMBRE

HT131-UC

HYDRAULIC CRIMPING TOOL

general features

12 tons · 2 SPEED · 180° · MAX PRESSURE · MANUAL RELEASE · ERGONOMIC · BALANCED · DURABLE · HEXAGONAL · OVAL · RADIAL · INDENT · DEEP INDENT

MAIN APPLICATIONS - max section AWG

Section AWG	22÷16	16÷14	12÷10	8	6	4	2	1/0	2/0	3/0	250 MCM	300 MCM	350 MCM	400 MCM	500 MCM	600 MCM	800 MCM	1000 MCM	1250 MCM	1500 MCM	2000 MCM
Copper lugs and splices				■	■	■	■	■	■	■	■	■	■	■	■	■					
Aluminum lugs and splices				■	■	■	■	■	■	■	■	■	■	■	■	■					
"C" sleeve Connectors				■	■	■	■	■	■	■	■	■	■								

These tools are supplied without dies. For die selection, please refer to chart on pages 286 to 300

This robust and self contained tool will accept the accessories for performing the "Deep Stepped Indent" system of crimping on Aluminum cables.
This tool will also accept the semi-circular slotted dies, common to most 12 tons tools (U dies).
HT131-UC performance features are the same as those of HT131-C.

TECHNICAL FEATURES

Crimping force tons	*12*
Dimensions in.	
Length	*19.2*
Width	*5.8*
Weight lbs.	*11.9*

STORAGE

Type	*VAL-P3**
Dimensions in. L x W x H	*24.41 x 14.96 x 5.31*
Weight lbs.	*5.5*
Supplied with the tool	✓

*Suitable for storage of the tool and 14 sets of dies

STORAGE

Type	*VAL-130**
Purchase separately	✓

*Suitable for the storage of accessories for crimping Aluminum connectors

RHU131-C

HYDRAULIC PRESSHEAD

general features

12 tons · 10,000 psi · DURABLE · CE · UKCA · HEXAGONAL · OVAL · RADIAL · INDENT · DEEP INDENT

MAIN APPLICATIONS - max section AWG

Section AWG	22÷16	16÷14	12÷10	8	6	4	2	1/0	2/0	3/0	250 MCM	300 MCM	350 MCM	400 MCM	500 MCM	600 MCM	800 MCM	1000 MCM	1250 MCM	1500 MCM	2000 MCM
Copper lugs and splices				■	■	■	■	■	■	■	■	■	■	■	■	■					
Aluminum lugs and splices				■	■	■	■	■	■	■	■	■	■	■	■	■					
"C" sleeve Connectors				■	■	■	■	■	■	■	■	■	■								

These tools are supplied without dies. For die selection, please refer to chart on pages 286 to 300

Hydraulic presshead complete with quick automatic coupler for connection to a hydraulic pump with a working pressure of 10,000 psi max, (see pages 272-278).
RHU131-C is suitable for installing the same range of connectors as HT131-UC.

TECHNICAL FEATURES

Crimping force tons	*12*
Max operating pressure psi	*10,000*
Dimensions in.	
Length	*9.6*
Width	*3.5*
Weight lbs.	*8.1*

STORAGE

Type	*VAL-P26**
Dimensions in. L x W x H	*17.52 x 11.42 x 4.53*
Weight lbs.	*2.6*
Purchase separately	✓

*Suitable for storage of the head and 14 sets of dies

STORAGE

Type	*VAL-130**
Dimensions in. L x W x H	*14.17 x 11 x 1.89*
Weight lbs.	*6.6*
Purchase separately	✓

*Suitable for the storage of accessories for crimping Aluminum connectors

STORAGE

Type	*VAL-130-U**
Dimensions in. L x W x H	*17.72 x 12 x 3.15*
Weight lbs.	*11.0*
Purchase separately	✓

*Suitable for storage of the head, semi-circular slotted dies and dies for crimping Aluminum connectors

VAL-130

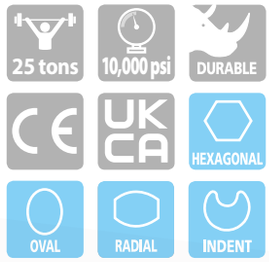
VAL-130-U

VAL-P26

HYDRAULIC PRESSHEAD

ECW-H3D

general features



MAIN APPLICATIONS - max section AWG

Section AWG	22÷16	16÷14	12÷10	8	6	4	2	1/0	2/0	3/0	250 MCM	300 MCM	350 MCM	400 MCM	500 MCM	600 MCM	800 MCM	1000 MCM	1250 MCM	1500 MCM	2000 MCM
L.V. lugs and splices				■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■		
Insulated terminals				■	■	■	■	■	■	■	■	■	■	■	■	■					
"C" sleeve Connectors				■	■	■	■	■	■	■	■	■	■	■	■						
H.V. lugs and splices						■	■	■	■	■	■	■	■	■	■	■	■	■	■		

These tools are supplied without dies. For die selection, please refer to chart on pages 286 to 300

STORAGE

Type	*VAL-ECW-H3D**
Dimensions in. L x W x H	*13.6 x 12 x 3.5*
Weight lbs.	*9.2*
Purchase separately	✓

** Suitable for storage of the head and 10 sets of dies*

TECHNICAL FEATURES

Crimping force tons	*25*
Max operating pressure psi	*10,000*
Dimensions in.	
Length	*12.4*
Width	*4.7*
Weight lbs.	*12.1*

Hydraulic presshead complete with quick automatic coupler for connection to a hydraulic pump with a working pressure of 10,000 psi max, (see pages 272-278)
Adaptor type AU230-130D is available as an optional extra enabling the head to utilise the semi-circular slotted dies which are common to most 12 tons tools (U dies).
Also available is a series of dies for the compression of DIN electrical connectors, and a die for cutting Copper, Aluminum, Aldrey, Aluminum-Steel and Steel conductors.

ECW-H3D ACCESSORIES FOR CUTTING CONDUCTORS

Die Type	Cutting Capacity	Conductor Type
	Ø 0.79 in.	Cu, Alu, Aldrey and Alu-Steel
	Ø 0.79 in.	Extra flexible Steel with ≥ 200 strands
WT2-3D	This die is suitable to cut Steel conductors (R ≤ 232,000 lbs./sq.in.) having the most common strandings, i.e.: 19 x 0.047 = Ø est. 0.236 in. 7 x 0.118 = Ø est. 0.354 in. 19 x 0.083 = Ø est. 0.413 in. 19 x 0.091 = Ø est. 0.453 in.	

CEMBRE

RHU450

HYDRAULIC PRESSHEAD

50 tons | 10,000 psi | DURABLE | CE | UKCA | HEXAGONAL | OVAL | RADIAL | INDENT

general features

MAIN APPLICATIONS - max section AWG

Section AWG	22÷16	16÷14	12÷10	8	6	4	2	1/0	2/0	3/0	250 MCM	300 MCM	350 MCM	400 MCM	500 MCM	600 MCM	800 MCM	1000 MCM	1250 MCM	1500 MCM	2000 MCM
Cu				■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Al				■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■

These tools are supplied without dies.

Hydraulic presshead complete with quick automatic coupler for connection to a hydraulic pump with a working pressure of 700 bar max, (see pages 272-278).
Adaptor type AU450-130D is available as an optional extra enabling the head to utilise the semi-circular slotted dies which are common to most 12 tons tools (U dies).

TECHNICAL FEATURES

Crimping force tons	*50*
Max operating pressure psi	*10,000*
Dimensions in.	
Length	*10.2*
Width	*4.7*
Weight lbs.	*22.7*

STORAGE

Type	*VAL-450**
Dimensions in. L x W x H	*11.2 x 8.3 x 4.9*
Weight lbs.	*6.2*
Supplied with the tool	✓

** Suitable for storage of the head*

HYDRAULIC PRESSHEAD

RHU520

general features

MAIN APPLICATIONS - max section AWG

Section AWG	22÷16	16÷14	12÷10	8	6	4	2	1/0	2/0	3/0	250 MCM	300 MCM	350 MCM	400 MCM	500 MCM	600 MCM	800 MCM	1000 MCM	1250 MCM	1500 MCM	2000 MCM
L.V. Lugs and splices																					
H.V. overhead lines																					

50 tons · 10,000 psi · DURABLE · HEXAGONAL · OVAL · RADIAL · INDENT

These tools are supplied without dies. For die selection, please refer to chart on pages 286 to 300

STORAGE

Type	*VAL-520**
Dimensions in. L x W x H	*15.1 x 9.1 x 5.7*
Weight lbs.	*7.0*
Purchase separately	✓

**Suitable for storage of the head*

TECHNICAL FEATURES

Crimping force tons	*50*
Max operating pressure psi	*10,000*
Dimensions in.	
Length	*12.0*
Width	*7.9*
Weight lbs.	*39.6*

STORAGE

Type	*VAL-MAT 520**
Dimensions in. L x W x H	*19.7 x 12.2 x 2.68*
Weight lbs.	*11.2*
Purchase separately	✓

**Suitable for storage of 10 sets of dies*

VAL-520

VAL-MAT 520

Hydraulic presshead complete with quick automatic coupler for connection to a hydraulic pump with a working pressure of 10,000 psi max, (see pages 272-278).
Adaptor type AU520-130C is available as an optional extra enabling the head to utilise the semi-circular slotted dies which are common to most 12 tons tools (U dies).

RHU520 DIES

Cembre Dies	Index
M10SH-520	10 SH
M14SH-520	14 SH
M16SH-520	16 SH
M30AH-520	30 AH
M38AH-520	38 AH

CEMBRE

HT-TC051

HYDRAULIC CUTTING TOOL

industrial application

Ø 2 in. | 2 SPEED | 90° | HEAD OPENING | SPECIAL | ONE HAND | MAX PRESSURE | MANUAL RELEASE | ERGONOMIC | BALANCED | DURABLE

MAIN APPLICATIONS

specifically designed to cut Copper, Aluminum and Telecommunications cable having Ø max 2 in.

Hand operated hydraulic tool specifically designed to cut Copper, Aluminum and telecommunications cables having a max overall diameter up to 2 inches.
The tool features a double speed action.
The blades are manufactured from high strength special Steel, heat treated to ensure a long service life.

TECHNICAL FEATURES	
Max cutting Ø in.	up to 2
Dimensions in.	
Length	19.5
Width	5.1
Weight lbs.	9.6

STORAGE	
Type	CVB-010
Dimensions in. L x W	21.4 x 6.3
Weight lbs.	0,3
Supplied with the tool	✓

Not suitable for cutting
Steel reinforced conductors

The head can be easily opened to allow the cutting of running cables.
The head can rotate by 90 degrees, to enable the operator to work in the most comfortable position.
HT-TC051 features an automatic safety valve to bypass oil when reaching maximum pressure; a pressure release device can also be operated at any stage of operation.

TC050

HYDRAULIC CUTTING HEAD

industrial application

Ø 2 in. | 10,000 psi | HEAD OPENING | SPECIAL | DURABLE | CE | UKCA

MAIN APPLICATIONS

specifically designed to cut Copper, Aluminum and Telecommunications cable having Ø max 2 in.

Hydraulic cutting head complete with quick automatic coupler for connection to a hydraulic pump with a working pressure of 10,000 psi max, (see pages 272-278).
TC050 features the same cutting capability as HT-TC051.

TECHNICAL FEATURES	
Max cutting Ø in.	up to 2
Max operating pressure psi	10,000
Dimensions in.	
Length	12.8
Width	4.4
Weight lbs.	7.0

STORAGE	
Type	CVB-011
Dimensions in. L x W	14.2 x 5.4
Weight lbs.	0.3
Supplied with the tool	✓

Not suitable for cutting
Steel reinforced conductors

HYDRAULIC CUTTING TOOL

HT-TC065

industrial application

MAIN APPLICATIONS

specifically designed to cut Copper, Aluminum and Telecommunications cable having Ø max 2-9/16 in.

STORAGE

Type	*CVB-010*
Dimensions in. L x W	*21.4 x 6.3*
Weight lbs.	*0,3*
Supplied with the tool	✓

TECHNICAL FEATURES

Max cutting Ø in.	*up to 2-9/16*
Dimensions in.	
Length	*20.6*
Width	*5.1*
Weight lbs.	*11.0*

Hand operated hydraulic tool specifically designed to cut Copper, Aluminum and telecommunications cables having a max overall diameter up to 2-9/16" inches. The tool features a double speed action.
The blades are manufactured from high strength special Steel, heat treated to ensure a long service life.
The head can be easily opened to allow the cutting of running cables.
The head can rotate by 320 degrees, to enable the operator to work in the most comfortable position.
HT-TC065 features an automatic safety valve to bypass oil when reaching maximum pressure; a pressure release device can also be operated at any stage of operation.

Not suitable for cutting
Steel reinforced conductors

HYDRAULIC CUTTING HEAD

TC065-SC

industrial application

MAIN APPLICATIONS

specifically designed to cut Copper, Aluminum and Telecommunications cable having Ø 2-9/16 in.

STORAGE

Type	*VAL-TC065-SC**
Dimensions in. L x W x H	*18 x 9.1 x 4.8*
Weight lbs.	*7.9*
Supplied with the tool	✓

**Suitable for storage of the head*

TECHNICAL FEATURES

Max cutting Ø in.	*up to 2-9/16*
Max operating pressure psi	*10,000*
Dimensions in.	
Length	*16.8*
Width	*7.3*
Weight lbs.	*13.8*

Hydraulic cutting head complete with quick automatic coupler for connection to a hydraulic pump with a working pressure of 10,000 psi max, (see pages 272-278).
TC065-SC features the same cutting capability as HT-TC065.

The open head and the "scissor" movement of the blades facilitate the cutting of running cables.

Not suitable for cutting
Steel reinforced conductors

CEMBRE

HT-TC0851

HYDRAULIC CUTTING TOOL

industrial application

Ø 3-3/8 in. | 2 SPEED | 90° | HEAD OPENING | SPECIAL | MAX PRESSURE | MANUAL RELEASE | ERGONOMIC | BALANCED | DURABLE

MAIN APPLICATIONS

specifically designed to cut Copper, Aluminum and Telecommunications cable having Ø max 3-3/8 in.

Hand operated hydraulic tool specifically designed to cut Copper, Aluminum and telecommunications cables having a max overall diameter up to 3-3/8 in.
This model is self contained, robust and sturdy.
The tool features a double speed action: a fast advancing speed for rapid approach of the blades to the cable and a slower more powerful speed for cutting.

TECHNICAL FEATURES	
Max cutting Ø in.	*up to 3-3/8*
Dimensions in.	
Length	*25.7*
Width	*5.6*
Weight lbs.	*14.5*

STORAGE	
Type	*VAL-P7*
Dimensions in. L x W x H	*28.6 x 8 x 4.5*
Weight lbs.	*2.9*
Supplied with the tool	✓

The blades are manufactured from high strength special Steel, heat treated to ensure a long service life.
The head can easily be opened to allow the cutting of running cables, and can rotate by 180 degrees, to enable the operator to work in the most comfortable position.

HT-TC0851 features an automatic safety valve to bypass oil when reaching maximum pressure; a pressure release device can also be operated at any stage of operation.

Not suitable for cutting
Steel reinforced conductors

TC085

HYDRAULIC CUTTING HEAD

industrial application

Ø 3-3/8 in. | 10,000 psi | HEAD OPENING | SPECIAL | DURABLE | CE | UKCA

MAIN APPLICATIONS

specifically designed to cut Copper, Aluminum and Telecommunications cable having Ø max 3-3/8 in.

Hydraulic cutting head complete with quick automatic coupler for connection to a hydraulic pump with a working pressure of 10,000 psi max, (see pages 272-278).
TC085 features the same cutting capability as HT-TC0851.

TECHNICAL FEATURES	
Max cutting Ø in.	*up to 3-3/8*
Max operating pressure psi	*10,000*
Dimensions in.	
Length	*16.1*
Width	*5.3*
Weight lbs.	*10.8*

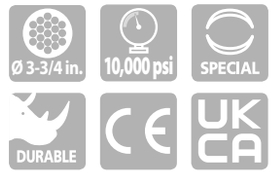
STORAGE	
Type	*VAL-TC085*
Dimensions in. L x W x H	*18.3 x 6.1 x 2.6*
Weight lbs.	*5.3*
Supplied with the tool	✓

Not suitable for cutting
Steel reinforced conductors

HYDRAULIC CUTTING HEAD

TC096

industrial application



MAIN APPLICATIONS

specifically designed to cut Copper and Aluminum cable having Ø max 3-3/4 in.

STORAGE

Type	*VAL-096*
Dimensions in. L x W x H	*17.7 x 10.4 x 5.7*
Weight lbs.	*15.0*
Supplied with the tool	✓

TECHNICAL FEATURES

Max cutting Ø in.	*up to 3-3/4*
Max operating pressure psi	*10,000*
Dimensions in.	
Length	*15.6*
Width	*9.8*
Weight lbs.	*17.4*

Handle designed for ease of operation

Not suitable for cutting
Steel reinforced conductors

TC096 is a hydraulic cutting head specifically designed for cutting Copper and Aluminum cables having overall diameter up to 3-3/4".

The blades are manufactured from high strength special Steel, heat treated to ensure a long service life, and the shape of the blades provides a "clean" cutting of the cable.

This head is fitted with a male automatic coupler to be connected to a hydraulic pump developing a maximum pressure of 10,000 psi (see pages 272-278).

TC120

HYDRAULIC CUTTING HEAD

industrial application

Ø 4-3/4 in. | 10,000 psi | HEAD OPENING | SPECIAL | DURABLE | CE | UKCA

MAIN APPLICATIONS

specifically designed to cut Copper, Aluminum and Telecommunications cable having Ø max 4-3/4 in.

TECHNICAL FEATURES

Max cutting Ø in.	*up to 4-3/4*
Max operating pressure psi	*10,000*
Dimensions in.	
Length	*21.1*
Width	*6.9*
Weight lbs.	*20.1*

STORAGE

Type	*VAL-TC120*
Dimensions in. L x W x H	*23.2 x 8.2 x 3.3*
Weight lbs.	*20.1*
Supplied with the tool	✓

TC120 is a hydraulic cutting head specifically designed for cutting Copper, Aluminum and telephone cables having overall diameter up to 4-3/4".
The blades are manufactured from high strength special Steel, heat treated to ensure a long service life. The shape of the blades provides a "clean" cut and the head can be easily opened to allow cutting of running cables.
This head is fitted with a male automatic coupler to be connected to a hydraulic pump developing a maximum pressure of 10,000 psi (see pages 272-278).

Handle designed for ease of operation

Opening head, to allow cutting of running cables

Not suitable for cutting
Steel reinforced conductors

TC 120 cutting capacity - a few examples:

	Section	Conductor Type
Cable Type	3x300 MCM	Steel armoured Ø 3.2 in.
	2000 MCM	Cu - EPR rubber insulated; Ø 3.35 in.
	2000 MCM	Cu - EPR rubber insulated + lead sheath; Ø 3.62 in.
	2000 MCM	Cu - EPR rubber insulated + lead sheath + PE sheath; Ø 3.94 in.
	350-400 MCM	EPR rubber insulated

HYDRAULIC CUTTING TOOL

HT-TC026Y

overhead line application

MAIN APPLICATIONS

specifically designed to cut Copper, Aldrey, Aluminum, Aluminum-Steel cables, Steel ropes having a max overall diameter of 1", guy wire up to 7/8" and Steel ground rod up to 5/8"

STORAGE

Type	*CVB-001*
Dimensions in. L x W	*16.9 x 6.1*
Weight lbs.	*0.33*
Supplied with the tool	✓

TECHNICAL FEATURES

Max cutting Ø in.	*up to 1*
Dimensions in.	
Length	*15.5*
Width	*5.1*
Weight lbs.	*7.4*

Hand operated hydraulic tool specifically designed to cut Copper, Aldrey, Aluminum, Aluminum-Steel cables, Steel ropes having a max overall diameter of 1", guy wire up to 7/8" and Steel ground rod up to 5/8".
The tool features a double speed action.
The blades are manufactured from high strength special Steel, heat treated to ensure a long service life.

The head can rotate by 180 degrees, to enable the operator to work in the most comfortable position, and can easily be opened to allow the cutting of running cables.
HT-TC026Y features an automatic safety valve to bypass oil when reaching maximum pressure; a pressure release device can also be operated at any stage of operation.

CUTTING CAPACITY

	MATERIAL	TENSILE STRENGTH (lbs./sq.in.)	MAX CUTTING DIAMETER (in.) HT-TC026Y TC 025
ROPES & CONDUCTORS	Copper	≤ 59,450	1
	Aluminum	≤ 29,000	1
	Almelec	≤ 49,300	1
	Steel	≤ 261,000	INDICATIVE EXAMPLES: 7 x 0.118 = Ø out. 0.354 19 x 0.083 = Ø out. 0.413 19 x 0.091 = Ø out. 0.453
	MULTI STRANDS Steel (STRANDS Qty ≥ 200)	≤ 261,000	0.709
	ACSR	≤ 261,000	1 INDICATIVE EXAMPLES: 26 x 0.098 + 7 x 0.077 : Ø out. = 0.624 26 x 0.120 + 7 x 0.094 : Ø out. = 0.763 26 x 0.142 + 7 x 0.110 : Ø out. = 0.897
RODS	Steel	≤ 87,000	0.511
		≤ 60,900	0.629
	Copper	≤ 43,000	0.787
		≤ 36,250	0.905
	Aluminum	≤ 23,200	1

Ideal for EHS guy wire up to 7/8" and ground rod up to 5/8"

HYDRAULIC CUTTING HEAD

TC025

overhead line application

MAIN APPLICATIONS

specifically designed to cut Copper, Aldrey, Aluminum and Aluminum-Steel cables having a max overall diameter of 1 in.

STORAGE

Type	*CVB-007*
Dimensions in. L x W	*13.78 x 4.13*
Weight lbs.	*0.29*
Supplied with the tool	✓

TECHNICAL FEATURES

Max cutting Ø in.	*up to 1*
Max operating pressure psi	*10,000*
Dimensions in.	
Length	*8.4*
Width	*3.4*
Weight lbs.	*4.4*

TC025 hydraulic cutting head is specifically designed to cut Copper, Aldrey, Aluminum and Aluminum-Steel cables having a max overall diameter of 1".
This head is fitted with a male automatic coupler to be connected to a hydraulic pump developing a maximum pressure of 10,000 psi (see pages 272-278)

CEMBRE

HT-TC041N

HYDRAULIC CUTTING TOOL

overhead line application

Ø 1-3/4 in. | 2 SPEED | 180° | HEAD OPENING | SPECIAL | ONE HAND | MAX PRESSURE | MANUAL RELEASE | ERGONOMIC | BALANCED | DURABLE

MAIN APPLICATIONS

specifically designed to cut Copper, Aldrey, Aluminum, Aluminum-Steel cables and Steel ropes, Aluminum and Steel rods having Ø max 1.75 in.

This model is self contained, robust and sturdy. The tool features a double speed action.
The blades are manufactured from high strength special steel, heat treated to ensure a long service life. The head can rotate by 180 degrees, to enable the operator to work in the most comfortable position, and can easily be opened to allow cutting of running cables.

Ideal for EHS guy wire

Hand operated hydraulic tool specifically designed to cut Copper, Aldrey, Aluminum, Aluminum-Steel cables and Steel ropes, Auminum and Steel rods having a max overall diameter of 1.75 in.

TECHNICAL FEATURES

Max cutting Ø in.	*up to 1-3/4*
Dimensions in.	
Length	*21.6*
Width	*5.6*
Weight lbs.	*12.8*

STORAGE

Type	*VAL-P7*
Dimensions in. L x W x H	*28.6 x 8 x 4.5*
Weight lbs.	*2.9*
Supplied with the tool	✓

HT-TC041N features an automatic safety valve to bypass oil when reaching maximum pressure; a pressure release device can also be operated at any stage of operation.

CUTTING CAPACITY

	MATERIAL	TENSILE STRENGTH (lbs./sq.in.)	MAX CUTTING DIAMETER (in.) HT-TC041N TC04N
ROPES & CONDUCTORS	Copper	≤ 59,450	1-3/4"
	Aluminum	≤ 29,000	1-3/4"
	Almelec	≤ 49,300	1-3/4"
	Steel	≤ 261,000	INDICATIVE EXAMPLES: 7 x 0.118 = Ø out. 0.354 19 x 0.083 = Ø out. 0.413 19 x 0.091 = Ø out. 0.453
	MULTI STRANDS Steel (STRANDS Qty ≥ 200)	≤ 261,000	0.709
	ACSR	≤ 261,000	1-3/4" INDICATIVE EXAMPLES: 26 x 0.098 + 7 x 0.077 : Ø out. = 0.624 26 x 0.120 + 7 x 0.094 : Ø out. = 0.763 26 x 0.142 + 7 x 0.110 : Ø out. = 0.897 54 x 0.138 + 19 x 0.082 : Ø out. = 1.240 54 x 0.172 + 19 x 0.103 : Ø out. = 1.543
RODS	Steel	≤ 87,000	0.709
		≤ 60,900	0.787
	Copper	≤ 43,000	1.181
		≤ 36,250	1.260
	Aluminum	≤ 23,200	1-3/4"

TC04N

HYDRAULIC CUTTING HEAD

overhead line application

Ø 1-3/4 in. | 10,000 psi | HEAD OPENING | SPECIAL | DURABLE | CE | UK CA

MAIN APPLICATIONS

specifically designed to cut Copper, Aldrey, Aluminum, Aluminum-Steel cables and Steel ropes, Aluminum and Steel rods having Ø max 1.75 in.

Hydraulic cutting head complete with quick automatic coupler for connection to a hydraulic pump with a working pressure of 10,000 psi max, (see pages 272-278)
TC04N has the same cutting capability as HT-TC041N.

Ideal for EHS guy wire

TECHNICAL FEATURES

Max cutting Ø in.	*up to 1-3/4*
Max operating pressure psi	*10,000*
Dimensions in.	
Length	*12.2*
Width	*3.9*
Weight lbs.	*8.8*

STORAGE

Type	*VAL-04*
Dimensions in. L x W x H	*13.8 x 4.9 x 2.7*
Weight lbs.	*4.4*
Supplied with the tool	✓

HYDRAULIC CUTTING TOOL

HT-TC051Y

overhead line application

MAIN APPLICATIONS

specifically designed to cut Copper, Aluminum, Aluminum-Steel cables (ACSR) having Ø max 2 in.

STORAGE

Type	*CVB-010*
Dimensions in. L x W	*21.4 x 6.3*
Weight lbs.	*0.33*
Supplied with the tool	✓

TECHNICAL FEATURES

Max cutting Ø in.	*up to 2*
Dimensions in.	
Length	*23.7*
Width	*5.1*
Weight lbs.	*10.3*

Hand operated hydraulic tool specifically designed to cut copper, aluminum, aluminum-steel cables (ACSR) having a max overall diameter of 2".
The HT-TC051Y is provided with a two stage hydraulic system, which advances the blades quickly to the cable. This proven system saves operator time and effort.

For ACSR only, not suitable for cutting guy wire and ground rod.

The HT-TC051Y is provided with an automatic safety valve to bypass oil when reaching max pressure.
This means safety to the operator and protection to the blades.
The blades are manufactured from high strength special steel, heat treated to ensure a long service life. The shape of the blades provides a "clean" cut. The head can be opened to allow cutting of running cables and ropes. The head rotates 90 degrees allowing the operator to perform the cut in the most comfortable position.
The tool is supplied complete with CVB-010 for protection and storage when not in use.

HYDRAULIC CUTTING HEAD

TC050Y

overhead line application

MAIN APPLICATIONS

specifically designed to cut Copper, Aluminum, Aluminum-Steel cables (ACSR) having Ø max 2 in.

STORAGE

Type	*CVB-011*
Dimensions in. L x W x H	*14.2 x 5.4*
Weight lbs.	*0.3*
Supplied with the tool	✓

TECHNICAL FEATURES

Max cutting Ø in.	*up to 2*
Max operating pressure psi	*10,000*
Dimensions in.	
Length	*13.0*
Width	*4.4*
Weight lbs.	*7.3*

Hydraulic cutting head complete with quick automatic coupler for connection to a hydraulic pump with a working pressure of 10,000 psi max, (see pages 272-278)

For ACSR only,
not suitable for cutting guy wire and ground rod.

TC050Y features the same cutting capability as HT-TC051Y.

CEMBRE

RH-FC48N

FRAME-TYPE HOLE PUNCHING HEAD

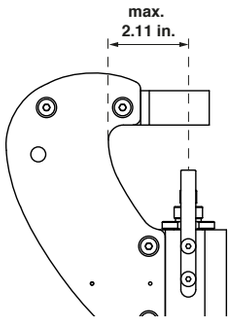
general features

Ø 1.858 in. | 10,000 psi | DURABLE

MAIN APPLICATIONS

designed for punching holes from 0.61 up to Ø 1.858 in.

Hydraulic piercing head complete with automatic quick coupler, designed for punching holes from 0.61 up to 1.858 in. diameter in the side wall of trunking without the need for pre drilling.
For operation the head must be joined to a hydraulic pump developing a pressure of 10,000 psi (see pages 272-278).



TECHNICAL FEATURES

Max piercing Ø in.	*1.858*
Max centre of hole to edge of trunking in.	*2.11*
Max operating pressure psi	*10,000*
Dimensions in.	
Length	*10.2*
Width	*5.8*
Weight lbs.	*8.16*

STORAGE

Type	*VAL-P30*
Dimensions in. L x W x H	*12.4 x 11.8 x 3.7*
Weight lbs.	*2.0*
Supplied with the tool	✓

Table denotes the punch/die set reference, for each hole size.
Suitable for punching holes in mild Steel, fibreglass or plastic material, up to 0.08 in. thick.

Hole Dimensions					Maximum thickness of mild Steel (in.)	Type
Nominal		Pg	ISO	Inch		
Ø (mm)	Ø (inch)					
15,5	.610	Pg9	-	-		RD15.5SS-FC
16,2	.638	-	ISO-16	-		RD16.2SS-FC
17,5	.689	-	-	-		RD17.5SS-FC
18,8	.740	Pg11	-	-		RD18.8SS-FC
19,1	.752	-	-	-		RD19.1SS
20,5	.807	Pg 13,5	ISO-20	-		RD20.5SS
22,6	.890	Pg16	-	-		RD22.6SS
23,8	.937	-	-	5/8"		RD23.8SS
25,4	1.000	-	ISO-25	-		RD25.4SS
27,0	1.063	-	-	3/4"		RD27SS
28,5	1.122	Pg21	-	-		RD28.5SS
30,5	1.201	-	-	7/8"	0.08	RD30.5SS
31,8	1.252	-	-	-		RD31.8SS
32,5	1.279	-	ISO-32	-		RD32.5SS
34,6	1.362	-	-	-		RD34.6SS
37,2	1.464	Pg29	-	-		RD37.2SS
38,1	1.500	-	-	-		RD38.1SS
40,5	1.594	-	ISO-40	-		RD40.5SS-FC
41,3	1.626	-	-	-		RD41.3SS-FC
42,5	1.673	-	-	1"1/4"		RD42.5SS-FC
43,2	1.701	-	-	-		RD43.2SS-FC
44,5	1.752	-	-	-		RD44.5SS-FC
47,2	1.858	Pg36	-	-		RD47.2SS-FC

PIERCING HEADS

general features

RHT160
RHT160-60N

Ø 0.83 in. | 10,000 psi | DURABLE

RHT160

Max piercing Ø in.	0.83
Max hole distance from bar edge in.	1.2
Max operating pressure psi	10,000
Dimensions in.	
Length	9.4
Width	6.0
Weight lbs.	14.3

RHT160-60N

Max piercing Ø in.	0.83
Max hole distance from bar edge in.	2.3
Max operating pressure psi	10,000
Dimensions in.	
Length	9.4
Width	7.1
Weight lbs.	20.3

STORAGE

Type	VAL-160*
Dimensions in. L x W x H	11.1 x 7.09 x 3.94
Weight lbs.	5.1
Supplied with the tool	✓

*Suitable for storage of the head

Hydraulic piercing head complete with automatic quick coupler, for piercing holes of various diameters in copper, aluminum and steel bars with max. thickness of 0.39 inches (see Tab.)
This compact and handy tool is widely used for transformer room connections, control switch boards and power plants.
For operation the head must be joined to a hydraulic pump developing a pressure of 10,000 psi (see pages 272-278).

Available accessories (to be ordered separately):

Piercing Ø in.	0.25	0.33	0.35	0.41	0.43	0.51	0.53	0.55	0.59	0.67	0.75	0.83
Type (Kit Punch+Die)	RT6,5	RT8,5	RT9	RT10,5	RT11	RT13	RT13,5	RT14	RT15	RT17	RT19	RT21

Max. thickness

Hole diameter (in.)	0.25	0.33	0.35	0.41	0.43	0.51	0.53	0.55	0.59	0.67	0.75	0.83
Max thickness strep in Copper	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.31
Max thickness strep in Steel	0.39	0.39	0.39	0.39	0.39	0.35	0.35	0.35	0.31	0.27	0.24	0.16
Punch die/set	RT6,5	RT8,5	RT9	RT10,5	RT11	RT13	RT13,5	RT14	RT15	RT17	RT19	RT21

HT-FL74

PULLER-TYPE HOLE PUNCHING TOOLS

general features

Ø 5.5 in. | SPEED | MAX PRESSURE | MANUAL RELEASE | ERGONOMIC | BALANCED | DURABLE

MAIN APPLICATIONS

specifically designed for hole punching stainless Steel, mild Steel, fibreglass and plastic sheet materials up to 5.5 in. thickness

Hand operated hydraulic tool specifically designed for hole punching stainless Steel, mild Steel, fibreglass and plastic sheet materials up to 0.14 in. thickness.
Compact, lightweight and easy to handle.
The tool is supplied complete with plastic case VAL-P28 for protection and storage when not in use.

Supplied with Pullers TD-11, TD-19 and spiral bit Ø 0.45 in.
For the punch-die selection chart see page 235.

TECHNICAL FEATURES	
Max Punching Ø in.	5.5
Dimensions in.	
Length	15.0
Width	5.4
Weight lbs.	7.28

STORAGE	
Type	VAL-P28
Dimensions in. L x W x H	24.4 x 14.2 x 5.4
Weight lbs.	5.3
Supplied with the tool	✓

HT-FL75

Ø 5.5 in. | SPEED | MAX PRESSURE | MANUAL RELEASE | ERGONOMIC | BALANCED | DURABLE

Hand operated hydraulic tool specifically designed for hole punching stainless Steel, mild Steel, fibreglass and plastic sheet materials up to 0.14 in. thickness.
Compact, lightweight and easy to handle.
The balanced punching head pivots 180deg through a full 360deg rotation for ease of use in confined spaces.
The tool is supplied complete with plastic case VAL-P28 for protection and storage when not in use.
Supplied with Pullers TD-11, TD-19 and spiral bit Ø 0.45 in.
For the punch-die selection chart see page 235.

TECHNICAL FEATURES	
Max Punching Ø in.	5.5
Dimensions in.	
Length	17.8
Width	5.1
Weight lbs.	8.1

STORAGE	
Type	VAL-P28
Dimensions in. L x W x H	24.4 x 14.2 x 5.4
Weight lbs.	5.3
Supplied with the tool	✓

Universal joint allows punching head to pivot 180deg over a full 360deg rotation.

PULLER-TYPE HOLE PUNCHING HEAD

RH-FL75

general features

Ø 5.5 in. | 10,000 psi | DURABLE

MAIN APPLICATIONS

specifically designed for hole punching stainless Steel, mild Steel, fibreglass and plastic sheet materials up to 5.5 in. thickness

STORAGE

Type	*VAL-P29*
Dimensions in. L x W x H	*17.6 x 11.3 x 4.1*
Weight lbs.	*3.1*
Supplied with the tool	✓

TECHNICAL FEATURES

Max Punching Ø in.	*5.5*
Max operating pressure psi	*10,000*
Dimensions in.	
Length	*6.4*
Width	*4.2*
Weight lbs.	*4.2*

Hydraulic head, for hole punching stainless steel, soft steel, fibreglass and plastic sheet materials up to 0.14 in. thickness.
Compact and lightweight, easy to handle in confined spaces due to a rotating 90deg quick automatic coupler for connection to a hydraulic pump with a working pressure of 10,000 psi max
(see pages 272-278).
Supplied with Pullers TD-11, TD-19 and spiral bit Ø 0.45 in.
For the punch-die selection chart see table below.

HT-FL74, HT-FL75 and RH-FL75 Punching accessories available

Round punch

Hole diameter Nominal Ø (mm)	Ø (inch)	Pg	ISO	GAS	Material max thickness (in.) Stainless Steel	Mild Steel	Pilot hole Ø (in.)	Type KIT (Punch + Die)	Puller
15,5	.610	Pg9	-	-	0.1 in. (2,5 mm) Rm= 700 N/mm²	0.14 in. (3,5 mm) Rm= 510 N/mm²	0.45	RD15.5SS	TD-11
16,2	.638	-	ISO-16	-				RD16.2SS	
17,0	.669	-	-	G3/8"				RD17SS	
17,5	.689	-	-	-				RD17.5SS	
18,8	.740	Pg11	-	-				RD18.8SS	
19,1	.752	-	-	-				RD19.1SS	
20,5	.807	Pg 13,5	ISO-20	-				RD20.5SS	
21,5	.846	-	-	G1/2"				RD21.5SS	
22,6	.890	Pg16	-	-				RD22.6SS	
23,8	.937	-	-	G5/8"				RD23.8SS	
25,4	1.000	-	ISO-25	-				RD25.4SS	
27,0	1.063	-	-	G3/4"				RD27SS	
28,5	1.122	Pg21	-	-				RD28.5SS	
30,5	1.201	-	-	G7/8"				RD30.5SS	
28,5	1.122	Pg 21	-	-			0.79	RD28.5SS-19	TD-19
30,5	1.201	-	-	G7/8"				RD30.5SS-19	
31,8	1.252	-	-	-				RD31.8SS	
32,5	1.279	-	ISO-32	-				RD32.5SS	
34,0	1.338	-	-	G1"				RD34SS	
34,6	1.362	-	-	-				RD34.6SS	
37,2	1.464	Pg29	-	-				RD37.2SS	
38,1	1.500	-	-	-				RD38.1SS	
38,5	1.515	-	-	G1"1/8"				RD38.5SS	
40,5	1.594	-	ISO-40	-				RD40.5SS	
41,3	1.626	-	-	-				RD41.3SS	
42,5	1.673	-	-	G1"1/4"				RD42.5SS	
43,2	1.701	-	-	-				RD43.2SS	
44,5	1.752	-	-	-				RD44.5SS	
47,2	1.858	Pg36	-	-				RD47.2SS	
48,5	1.909	-	-	G1"1/2"				RD48.5SS	
50,5	1.988	-	ISO-50	-				RD50.5SS	
51,4	2.023	-	-	-				RD51.4SS	
52,4	2.063	-	-	-				RD52.4SS	
54,2	2.134	Pg42	-	G1"3/4"				RD54.2SS	
60,0	2.362	Pg48	-	G2"				RD60SS	
60,5	2.381	-	-	-				RD60.5SS	
64,0	2.520	-	ISO-63	-				RD64SS	
65,0	2.559	-	-	-				RD65SS	
76,0	2.992	-	-	G2"1/2"		0.12		RD76SS	
76,5	3.011	-	-	-		0.14		RD76.5SS	
80,5	3.169	-	-	-		0.12		RD80.5SS	
89,0	3.503	-	-	G3"		0.14		RD89SS	
90,0	3.543	-	-	-	0.08	0.12		RD90SS	
100,0	3.937	-	-	-	0.08	0.12	1.14	RD100SS	TD-28.5*
102,0	4.015	-	-	-	0.08	0.12		RD102SS	
114,0	4.488	-	-	-	0.08	0.10		RD114SS	
120,0	4.724	-	-	-	0.06	0.08		RD120SS	
140,0	5.512	-	-	-	0.06	0.08		RD140SS	

** Puller included in the kit*

"D" punch

Hole diameter Nominal (mm)	(inch)	Material max thickness (in.) Stainless Steel	Mild Steel	Pilot hole Ø (in.)	Type KIT (Punch+die + Puller)
(a)38,3 x (b)36,6	(a)1.507 x (b)1.442	0.10	0.14	0.73	RD 18D
(a)43,1 x (b)41,5	(a)1.696 x (b)1.632				RD 24D

Stainless Steel = Rm= 700 N/mm² - Mild Steel = Rm= 500 N/mm²

Square punch

Hole diameter Nominal (mm)	(inch)	Material max thickness (in.) Stainless Steel	Mild Steel	Pilot hole Ø (in.)	Type KIT (Punch+die + Puller)
21,0 x 21,0	.827 x .827	0.10	0.14	0.47	RD21X21
46,0 x 46,0	1.811 x 1.811	0.06	0.08	1.04	RD46X46
68,0 x 68,0	2.677 x 2.677			1.12	RD68X68
92,0 x 92,0	3.622 x 3.622				RD92X92
126,0 x 126,0	4.960 x 4.960				RD126X126
138,0 x 138,0	5.433 x 5.433	0.04	0.06		RD138X138
220,0 x 220,0	8.661 x 8.661				RD220X220
224,0 x 224,0	8.818 x 8.818				RD224X224

Rectangular punch

Hole diameter Nominal (mm)	(inch)	Material max thickness (in.) Stainless Steel	Mild Steel	Pilot hole Ø (in.)	Type KIT (Punch+die + Puller)
18,0 x 46,0	.709 x 1.811	0.08	0.08	0.65	RD18X46
22,0 x 30,0	.866 x 1.181				RD22X30
22,0 x 46,0	.866 x 1.811				RD22X46
29,0 x 71,0	1.141 x 2.795				RD29X71
35,0 x 65,0	1.377 x 2.559			1.04	RD35X65
35,0 x 86,0	1.377 x 3.385				RD35X86
35,0 x 112,0	1.377 x 4.409				RD35X112
36,0 x 46,0	1.417 x 1.811				RD36X46
37,0 x 54,0	1.456 x 2.125	0.06			RD37X54
37,0 x 67,0	1.456 x 2.637				RD37X67
37,0 x 88,0	1.456 x 3.464				RD37X88
37,0 x 104,0	1.456 x 4.094				RD37X104
37,0 x 115,0	1.456 x 4.527				RD37X115
46,0 x 54,0	1.811 x 2.126				RD46X54
46,0 x 72,0	1.811 x 2.835				RD46X72
46,0 x 92,0	1.811 x 3.622				RD46X92
46,0 x 107,0	1.811 x 4.212				RD46X107
50,0 x 98,0	1.968 x 3.858				RD50X98
67,0 x 126,0	2.637 x 4.960			1.12	RD67X126
72,0 x 136,0	2.834 x 5.354				RD72X136

Stainless Steel = Rm= 700 N/mm² - Mild Steel = Rm= 500 N/mm²

USE OF NON-CEMBRE PUNCHING ACCESSORIES

Type	Punch & Die	Pilot hole Ø in.
TRD-9.4C (*)	GREENLEE 3/8" - 24 UNF	Ø 0.40
TRD-M11C (*)	BM, COSMEC (M11x1.5), IMB 9602	Ø 0.45
TD-M16C	BM, COSMEC (M16x1.5)	Ø 0.65
TD-27	BM, COSMEC (Ø105÷Ø140)	Ø 1.10
TD-14X14-M14	BM, COSMEC 46x46	Ø 0.74
TD-120X20-M20	BM, COSMEC 92x92	Ø 1.10
TD-20X20-M20 (with plug)	BM, COSMEC 42x95	Ø 1.10
TGD-13.5X13.5-M13	BM, COSMEC 40x40; 45x45; 46x46 (M13)	Ø 0.74
TGD-10X10-M9	BM, COSMEC 006505	Ø 0.54
TD-9	IMB 9601	Ø 0.37
TD-16	IMB 9603	Ø 0.65
TD-10X10-M10 (with plug)	IMB 9623	Ø 0.57
TD-14X14-M14/1"	IMB 9625	Ø 0.77
TD-20 (without plug)	IMB 9626	Ø 1.10
TD-20X20-M20-C (with plug)	IMB 9626	Ø 1.10

(*) The washer supplied with the KIT must be threaded onto the draw stud and positioned between the head and the die to allow the die to rest correctly

CEMBRE

RHTD

NUT SPLITTING HEADS

general features

Hydraulic nut splitting head complete with automatic quick coupler. For operating the head must be joined to a hydraulic pump developing a pressure of 10,000 psi (see pages 272-278).

RHTD270

For splitting nuts in.	*5/8" to 1-1/16"*
Max operating pressure psi	*10,000*
Weight lbs.	*3.9*

RHTD3241

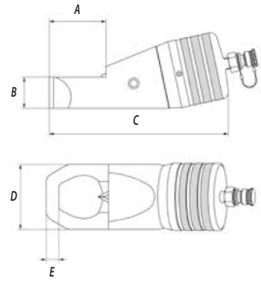
For splitting nuts in.	*1-1/16" to 1-5/8"*
Max operating pressure psi	*10,000*
Weight lbs.	*10.1*

RHTD410T

For splitting nuts in.	*1-1/16" to 1-5/8"*
Max operating pressure psi	*10,000*
Weight lbs.	*10.8*

Dimensions in.

	RHTD270	RHTD3241	RHTD410T
A	2.6	1.59	3.03
B	1.42	0.98	1.61
C	8.19	5.93	8.74
D	2.97	2.13	2.97
E	0.63	0.3	0.85



STORAGE

Type	*VAL-P4*
Dimensions in. L x W x H	*12.4 x 11.8 x 3.74*
Weight lbs.	*2.05*
Supplied with the tool	✓

Application range

Type	HEXAGONAL NUTS in.	HEXAGONAL NUTS Ø	SQUARE NUTS in.	SQUARE NUTS Ø
RHTD270	0.63	M 10	0.67	M 10
	0.67	M 10	0.75	M 12
	0.71	M 12	0.87	M 14
	0.75	M 12	0.94	M 16
	0.83	M 14	1.06	M 18
	0.87	M 14		
	0.94	M 16		
	1.06	M 18	1.06	M 18
RHTD 3241 RHTD 410T	1.06	M 18	1.06	M 18
	1.18	M 20	1.18	M 20
	1.26	M 22	1.26	M 22
	1.34	M 22	1.34	M 24
	1.42	M 24	1.42	M 27
	1.61	M 27		

CORDLESS HYDRAULIC TOOLS

SYMBOL DESCRIPTION

cordless hydraulic tools

Crimping force tons

18.0 V Li-Ion high power batteries

Double speed action: a rapid approach speed and a slower more powerful speed for crimping or cutting

Openable compression head, ideal for derivations from running conductors

Openable cutting head, ideal for cutting running cables

Tool with a large 1.7 in. jaw opening, for easier introduction/removal of large size compression terminations and joints

blades manufactured from high strength special Steel, heat treated to ensure a long service life

Max cutting diameter

Max hole punching diameter

The head can rotate to enable the operator to work in the most comfortable position

OLED display with multi-function capacitive touch button: Crimping force being generated, Battery power availability, Tool identification, LED state, Reset, No. of operational and service crimping cycles, Tool service required

Battery condition displayed to show the residual battery power

Switch protected against accidental operation

Can be operated with one hand

Equipped with safety valve as a additional safety element for the operator

Provided with a maximum pressure sensor that allows to check the correct execution of the compressions or the limit switch control of the blades

Pressure release button

Extremely quiet in operation

Very little vibration

Ergonomically designed with a sculptured body for operator comfort

Lightweight and balanced tool for greater control

LED lighting of the working area

Dual-compound plastic body
Greater safety and comfort in handling, thanks to the rubber inserts

SYMBOL DESCRIPTION

cordless hydraulic tools

Ensures optimal use of energy available

Durable moulded body offering high resistance to wear and damage in all operating conditions

Crimping cycle data (up to 200,000 events) is automatically stored on a memory card for transfer to PC by USB interface

Operating temperature range between -15 and +50°C

Hexagonal crimp

Radial crimp

Indent crimp

Deep indent crimp

Oval crimp

Trapezium crimp

Circular crimp

Max operating pressure

Manual pressure release button

Fitted with an integral socket, for connection to a 12 V dc external power supply

Contains isolated oil

Hydraulic units provide protection against short circuit when accidentally cutting live L.V. / M.V. cables with nominal voltage up to 60 kV

CE marking

UKCA marking

"Bilinear" configuration
Cembre bilinear tools have their mechanical centre of gravity nearest to the operator's wrist to optimise the overall ergonomics of the tool and provide a wider support for the hand

"Pistol" configuration
The new design and mass distribution favour the easy handling during use

"Standard" configuration
The design allows the maximum stability and comfort in handling and ergonomics

Smart Release Technology
Automatic retraction of the ram only occurs when the operator releases the start button, this allows visual verification of the die to ensure that they have fully met prior to releasing

Electronic Pressure Sensor
The EPS guarantees the precision of the crimping operation, checking the actual value of pressure and informing the operator of possible errors

Data recording and intelligent control allow complete verification of operational parameters. SMARTOOL technology enables the user to to store data from up to 200,000 cycles on the integrated memory card for transfer to a computer via a USB cable

18.0 V - 5.2 AH CORDLESS TOOL FEATURES

general features

1. Head rotates through 180°
2. Switch protected against accidental operation
3. Pressure release button
4. Slot-in battery with release button
5. LED lighting of the working area
6. Motor ventilation
7. Bi-component body for increased impact resistance
8. Multifunction OLED display with touch button
9. Improved balance for better handling
10. Anatomically shaped grip for greater comfort
11. 18.0 V - 5.2 Ah Li-Ion high power batteries
12. SMARTOOL technology for viewing and downloading operational data

SUPPLIED WITH

1. CB1852L, 18.0 V - 5.2 Ah Li-Ion high power battery (2 pcs.)
2. ASC30-36-USA/CA, AC charger (115V)
   (INPUT 220-240 V / 50-60 Hz; OUTPUT 12-42 V DC / 3.0 A max.)
3. USB cable
4. Shoulder strap

- Plastic or Metal carrying case

OPTIONAL ACCESSORIES

5. CINV12-110IC, 12V car power inverter.

Technical Specifications:

• Rated Power:	300 W
• Max. Power:	350 W
• Peack Power:	700 W
• Input Voltage:	11-15 VDC
• Output Voltage:	110 V
• Output Frequency:	50Hz or 60 Hz
• USB Output:	5 VDC 1 A cont.
• Converter Efficiency:	> 90 %
• Protections:	Short circuit, overload, over temperature, low battery voltage, over battery voltage
• Indicator:	Dual color LED (Green,operation, Red,shutdown)
• Over Voltage Shutdown:	DC 16 V
• Low Voltage Shotdown:	DC 10 V

Multifunction OLED display:

General operating information

Tool service required to maintain optimum condition

Battery power availability

Pressure level check

Crimping force check

18.0 V - 2.0 AH CORDLESS TOOL FEATURES

general features

1. Bilinear mechanical design
2. Smart Release system to automatically retract the ram at the end of the crimping cycle
3. OLED multifunctional display with touch button
4. Electronic Pressure Sensor (EPS)
5. SMARTOOL technology for viewing and downloading operational data
6. Illumination of working area via 4 x LED lights
7. Bi-component plastic body
8. Head rotates for ease of operation in confined spaces
9. Switch protected against accidental operation
10. Pressure release button
11. Slot-in battery with release button
12. Battery condition displayed to show the residual battery power
13. Motor ventilation
14. The tools are fitted with a maximum pressure valve to indicate a correct crimping operation or the full extent of the ram travel
15. Can be operated with one hand
16. Extremely quiet in operation with very little vibration
17. Anatomically shaped grip for greater comfort
18. 18.0 V - 2.0 Ah Li-Ion high power batteries

OPTIONAL ACCESSORIES

4. CINV12-110IC, 12V car power inverter.

New Range nd

SUPPLIED WITH

1. **CB1820L, 18.0 V - 2.0 Ah Li-Ion high power battery (2 pcs.)**
2. **ASC30-36-USA/CA, AC charger (115V)**
   (INPUT 220-240 V / 50-60 Hz; OUTPUT 12-42 V DC / 3.0 A max.)
3. **USB cable** (not for B15MA)

- **Wrist strap**
- **Plastic carrying case**

CEMBRE

B15MA

18.0 V CORDLESS HYDRAULIC CRIMPING TOOL

1.7 tons | Li-Ion 18.0V | 340° | BATTERY DISPLAY | PROTECTED | ONE HAND | SAFETY | MAX PRESSURE | RELEASE | SILENT | SMOOTH | ERGONOMIC | BALANCED | ENERGY SAVE | DURABLE | +5°F +122°F | HEXAGONAL | INDENT | OVAL | RADIAL | TRAPEZIUM | INDENT | CE | UKCA

general features

MAIN APPLICATIONS - max section AWG

Section AWG	22÷16	16÷14	12÷10	8	6	4	2	1/0	2/0	3/0	250 MCM	300 MCM	350 MCM	500 MCM	600 MCM	800 MCM	1000 MCM	1250 MCM	1500 MCM	2000 MCM
Copper lugs and splices	■	■	■	■	■															
Insulated terminals	■	■	■	■	■	■														
End sleeves	■	■	■	■	■	■	■													

These tools are supplied without dies. For die selection, please refer to chart on pages 286 to 300

TECHNICAL FEATURES

Crimping force tons	*1.7*
Dimensions in.	
Length	*13.2*
Height	*4.9*
Width	*3.1*
Battery	*18.0V 2.0Ah*
Weight lbs. (with Battery)	*3.8*

The tool is supplied as:

- Basic tool with battery and wrist strap
- Spare battery
- AC charger (110-115V)
- Plastic carrying case suitable for storing the tool and accessories

STORAGE

Type	*VAL-P22*
Dimensions in. L x W x H	*18.3 x 12.4 x 4.6*
Weight lbs.	*3.3*
Supplied with the tool	✓

Can be operated with one hand.
Balanced for greater control.
Head rotates by 340° for ease of operation in confined spaces.
The tool is fitted with a maximum pressure valve.
Extremely quiet, minimal vibration.
Durable moulded body offering high resistance to wear and damage in all operating conditions.
New Li-Ion 18V 2Ah High Power battery.

The battery is equipped with led indicators that indicate the remaining battery life at any time by pressing the adjacent button.
Supplied in a robust plastic case to accommodate the tool and all the accessories.
Two batteries and AC charger (110-115V) included.
Many different interchangeable crimping dies available.
Operating temperature:
+5 to +122°F

Many different interchangeable crimping dies available

Conductor Size AWG	Connector Type	Die Set	
22 ÷ 6	A... ; L...-M ; L...-P ; S... ; RN... ; BN... ; GN...	**MA03/3-15**	
16 ÷ 8	A... ; L...-M ; L...-P	**ME03/2-15**	
8 ÷ 6	A...; 2A... ; L...-M ; L...-P	**ME2/3-15**	
12 ÷ 8	T... (NF C 20130 style) ; L...-T	**MS4/10-15**	
8 ÷ 6	T... (NF C 20130 style) ; L...-T	**MS10/16-15**	
8 ÷ 6	HR... ; HSV...	**MH10/16-15**	
10 ÷ 6	DR... (DIN 46235 style) ; DSV... (DIN 46267 T1 style)	**MK5/8-15**	
8 ÷ 6	ANE... ; AN... ; IN... ; EN...	**NN4-15**	
22 ÷ 10	R... ; B... ; G... ; PL... ; NL...	**RBG-15**	
22 ÷ 10	R... ; B... ; G... (not suffix P, RF/BF-BF)	**RBY-15 with positioner**	
22 ÷ 12	PKE ; PKC ; PKD ; PKT ; KE	**KE4-15**	
12 ÷ 6	PKE ; PKC ; PKD ; PKT ; KE	**KE16-15**	
6 ÷ 2	PKE ; PKC ; PKD ; PKT ; KE	**KE35-15**	
14 -12 -10	CS4 (for photovoltaic systems)	**MCS4-15**	

Battery condition display

Interchangeable die sets

Ergonomically designed operating switch

Automatic slot-in battery

18.0 V CORDLESS HYDRAULIC CRIMPING TOOL

B500NDA

general features

MAIN APPLICATIONS - max section AWG

Section AWG	22÷16	16÷14	12÷10	8	6	4	2	1/0	2/0	3/0	250 MCM	300 MCM	350 MCM	400 MCM	500 MCM	600 MCM	800 MCM	1000 MCM	1250 MCM	1500 MCM	2000 MCM
Copper lugs and splices			■	■	■	■	■	■	■	■	■	■	■	■	■	■					
Insulated terminals				■	■	■	■	■	■	■	■										
End sleeves					■	■	■	■	■	■	■										
"C" sleeve Connectors			■	■	■	■	■	■	■												

These tools are supplied without dies. For die selection, please refer to chart on pages 286 to 300

TECHNICAL FEATURES

Crimping force tons	*6*
Dimensions in.	
Length	*15.6*
Height	*5.3*
Width	*3.2*
Battery	*18.0V 2.0Ah*
Weight lbs. (with Battery)	*6.9*

The tool is supplied as:

- Basic tool with battery and wrist strap
- Spare battery
- AC charger (110-115V)
- USB cable
- Plastic carrying case suitable for storing the tool and accessories

B500NDA is the first of a new generation of hand-held cordless tools, characterised by a "Bilinear" mechanical design. Equipped with a Smart Release system which automatically retracts the ram at the end of the operating cycle.
B500NDA is suitable for crimping electrical connectors onto conductor cross sections up to 600 MCM and uses the die sets common to all Cembre 6 tons tools and heads.
Equipped with Li-Ion 18V 2Ah rechargeable high capacity batteries. Fitted with a maximum pressure sensor for enhanced precision and repeatability of the maximum pressure cycle, and a pressure relief valve providing additional safety for the operator. The Electronic Pressure Sensor (EPS) guarantees the precision of the crimping operation, checking the actual value of pressure and informing the operator about possible errors.

STORAGE

Type	*VAL-P22*
Dimensions in. L x W x H	*18.3 x 12.4 x 4.6*
Weight lbs.	*3.3*
Supplied with the tool	✓

BILINEAR

SMART TECHNOLOGY RELEASE

EPS.

SMARTOOL TECHNOLOGY

The OLED display provides essential real time operating data, including:

- generated crimping force thus verifying accordance with best practice
- battery charge status
- general operating information
- the number of work cycles completed and remaining before recommended maintenance.

Weight and balance have been reconfigured to yield improvements in handling and convenience.
The more rigid structure of the bi-component plastic body provides greater mechanical protection while its rubber inserts boost operator safety and comfort.

Quieter operation, illumination of the working area via LED lights and a minimum of vibration enhance the tool's practicality. The integrated memory card enables the user to store data from up to 200,000 compression cycles for transfer to a computer via a USB cable (SMARTOOL technology).
Two batteries and AC charger (110-115V) included. Same charger of all our tools.
Operating temperature:
+5 to +122°F

"Bilinear" mechanical design

4 LED lighting of the working area

Manual pressure release button

OLED multifunctional display with touch button

Battery connection system with release button

CEMBRE

B500A

18.0 V CORDLESS HYDRAULIC CRIMPING TOOL

general features

6 tons | Li-Ion 18.0V | SPEED | HEAD OPENING | 180° | OLED | BATTERY DISPLAY | PROTECTED | ONE HAND | SAFETY | MAX PRESSURE | RELEASE | SILENT | SMOOTH | ERGONOMIC | BALANCED | LED LIGHTING | BI-COMPONENT | ENERGY SAVE | DURABLE | 200k | +5°F +122°F | HEXAGONAL | RADIAL | INDENT | OVAL | CIRCULAR | CE | UKCA

MAIN APPLICATIONS - max section AWG

Section AWG	22÷16	16÷14	12÷10	8	6	4	2	1/0	2/0	3/0	250 MCM	300 MCM	350 MCM	400 MCM	500 MCM	600 MCM	800 MCM	1000 MCM	1250 MCM	1500 MCM	2000 MCM
Copper lugs and splices			■	■	■	■	■	■	■	■	■	■	■	■	■	■					
Insulated terminals				■	■	■	■	■	■	■	■										
End sleeves					■	■	■	■	■	■	■										
"C" sleeve Connectors			■	■	■	■	■	■	■												

These tools are supplied without dies. For die selection, please refer to chart on pages 286 to 300

PISTOL

EPS.

SMARTOOL TECHNOLOGY

A maximum pressure sensor and pressure relief valve assure greater precision and repeatability of the pressure cycle and double the provision for operator safety.
The OLED display provides essential real time tool operating information data including:

- Crimping pressure and force being generated, for confirmation of adherence to norms and best practice
- Battery power availability
- Tool identification, LED work light state, reset, no. of operational and service crimping cycles
- Tool service required to maintain optimum condition.

Designed with improved balance, B500A is easily manageable during the crimping process and, by the use of bi-component plastics, has a shell with high resistance to wear and damage.

Rubber grip inserts, low noise and minimal vibration aid operator comfort while additional convenience and safety are provided by LED lighting of the working area.
Crimping cycle data (up to 200,000 events) is automatically stored on a memory card for transfer to PC by USB interface.
Operating temperature: +5 to +122°F

TECHNICAL FEATURES

Crimping force tons	*6*
Dimensions in.	
Length	*11.8*
Height	*13.5*
Width	*3.3*
Battery	*18.0V 5.2Ah*
Weight lbs. (with Battery)	*9,2*

STORAGE

Type	*VAL-P38*
Dimensions in. L x W x H	*20.5 x 17.0 x 5.0*
Weight lbs.	*5.7*
Supplied with the tool	✓

The tool is supplied as:

- Basic tool with battery and shoulder strap
- Spare battery
- AC charger (110-115V)
- USB cable
- Plastic carrying case suitable for storing the tool and 14 die sets

B500A-KV version also available for Power Supply Companies

The 6 tons B500A is suitable for a wide range of connectors up to 600 MCM using die sets common to the Cembre 6 tons tooling range.
New Li-Ion 18V - 5.2Ah batteries offer a higher capacity, while greater crimping speed and crimping force result from a revitalised hydraulic system with double speed action: a rapid approach of the dies to the connector then a slower, more powerful speed for crimping.

Crimps for charge

Terminal	Conductor (AWG)	Die Set		Approx. No of crimps
Cembre Copper tube crimping lugs	3	ME5-50	⬡	614
	250 MCM	ME24-50	⬡	328
	500 MCM	ME48-50	⬡	252

LED lighting of the working area

Multifunction OLED display with touch button

Anatomically shaped grip for improved comfort

Slot-in battery with release button

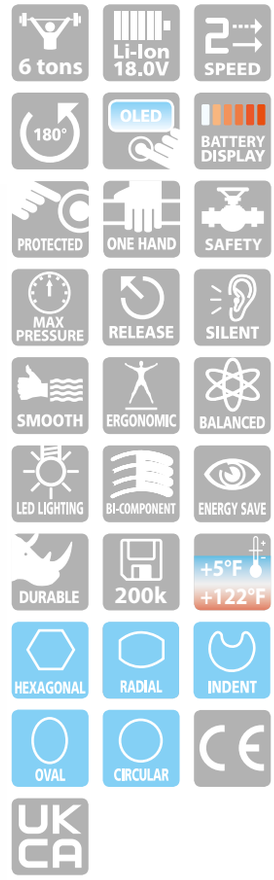
18.0 V CORDLESS HYDRAULIC CRIMPING TOOL

B550CA

general features

MAIN APPLICATIONS - max section AWG

- Copper lugs and splices 500 MCM
- Aluminium lugs and splices up to 300 MCM
- H taps up to 4/0 - 4/0
"C" sleeve connectors 2/0



TECHNICAL FEATURES

Crimping force tons	*6*
Dimensions in.	
Length	*14.1*
Height	*14.0*
Width	*3.3*
Battery	*18.0V 5.2Ah*
Weight lbs. (with Battery)	*11.7*

STORAGE

Type	*VAL-P40*
Dimensions in. L x W x H	*20.5 x 17.0 x 5.0*
Weight lbs.	*5.7*
Supplied with the tool	✓

PISTOL

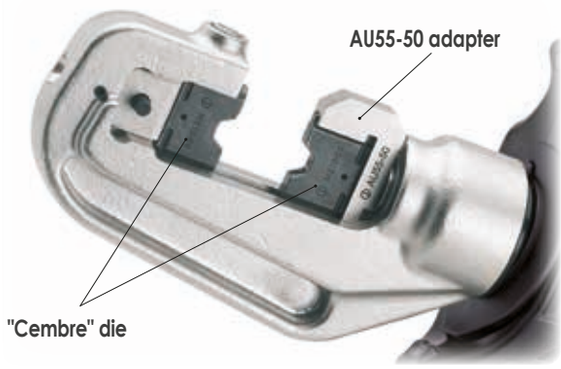
EPS

SMARTOOL TECHNOLOGY

The tool is supplied as:

- Basic tool with battery and shoulder strap
- Spare battery
- AC charger (110-115V)
- USB cable
- Plastic carrying case suitable for storing the tool and accessories

With adapter AU55-50 for accepting "Cembre 6 ton" dies.



The B550CA, with adapter AU55-50, will accept "Cembre 6 ton" dies.

New Li-Ion 18V - 5.2Ah batteries offer a higher capacity, while greater crimping speed and crimping force result from a revitalised hydraulic system with double speed action: a rapid approach of the dies to the connector then a slower, more powerful speed for crimping.

A maximum pressure sensor and pressure relief valve assure greater precision and repeatability of the pressure cycle and double the provision for operator safety.

B550BA-KV version also available for Electrical Utilities

The OLED display provides essential real time tool operating information data including:

- Crimping pressure and force being generated, for confirmation of adherence to norms and best practice
- Battery power availability
- Tool identification, LED work light state, reset, no. of operational and service crimping cycles
- Tool service required to maintain optimum condition.

Designed with improved balance, B550BA is easily manageable during the crimping process and, by the use of bi-component plastics, has a shell with high resistance to wear and damage.

Rubber grip inserts, low noise and minimal vibration aid operator comfort while additional convenience and safety are provided by LED lighting of the working area.

Crimping cycle data (up to 200,000 events) is automatically stored on a memory card for transfer to PC by USB interface.

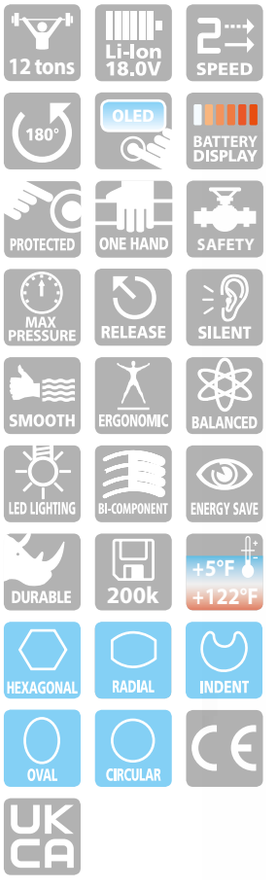
Operating temperature:
+5 to +122°F

CEMBRE

B1350-CA

18.0 V CORDLESS HYDRAULIC CRIMPING TOOL

general features



MAIN APPLICATIONS - max section AWG

Section AWG	22÷16	16÷14	12÷10	8	6	4	2	1/0	2/0	3/0	250 MCM	300 MCM	350 MCM	400 MCM	500 MCM	600 MCM	800 MCM	1000 MCM	1250 MCM	1500 MCM	2000 MCM
Copper lugs				■	■	■	■	■	■	■	■	■	■	■							
Copper splices				■	■	■	■	■	■	■	■	■	■	■							
"C" sleeve Connectors				■	■	■	■	■	■	■	■	■	■								

These tools are supplied without dies. For die selection, please refer to chart on pages 286 to 300

PISTOL

EPS.

SMARTOOL TECHNOLOGY

The tool is supplied as:

- Basic tool with battery and shoulder strap
- Spare battery
- AC charger (110-115V)
- USB cable
- Plastic carrying case suitable for storing the tool and 8 die sets

TECHNICAL FEATURES

Crimping force tons	*12*
Dimensions in.	
Length	*13.3*
Height	*13.5*
Width	*3.3*
Jaw Opening mm	*1.0*
Battery	*18.0V 5.2Ah*
Weight lbs. (with Battery)	*14.3*

STORAGE

Type	*VAL-P39*
Dimensions in. L x W x H	*20.5 x 17.0 x 5.0*
Weight lbs.	*5.7*
Supplied with the tool	✓

B1350-CA is suitable for a wide range of connectors up to 800 MCM using all semi-circular slotted dies common to the Cembre 12 tons tooling range.
New Li-Ion 18V - 5.2Ah batteries offer a higher capacity, while greater crimping speed and crimping force result from a revitalised hydraulic system with double speed action: a rapid approach of the dies to the connector then a slower, more powerful speed for crimping.
A maximum pressure sensor and pressure relief valve assure greater precision and repeatability of the pressure cycle and double the provision for operator safety.

The OLED display provides essential real time tool operating information data including:

- Crimping pressure and force being generated, for confirmation of adherence to norms and best practice
- Battery power availability
- Tool identification, LED work light state, reset, no. of operational and service crimping cycles
- Tool service required to maintain optimum condition.

Designed with improved balance, B1350-CA is easily manageable during the crimping process and, by the use of bi-component plastics, has a shell with high resistance to wear and damage.

Rubber grip inserts, low noise and minimal vibration aid operator comfort while additional convenience and safety are provided by LED lighting of the working area.
Crimping cycle data (up to 200,000 events) is automatically stored on a memory card for transfer to PC by USB interface.

Operating temperature:
+5 to +122°F

B1350-CA-KV version also available for Power Supply Companies

LED lighting of the working area

Multifunction OLED display with touch button

Anatomically shaped grip for improved comfort

Slot-in battery with release button

18.0 V CORDLESS HYDRAULIC CRIMPING TOOL

B1350L-CA

general features

MAIN APPLICATIONS - max section AWG

Section AWG	22÷16	16÷14	12÷10	8	6	4	2	1/0	2/0	3/0	250 MCM	300 MCM	350 MCM	400 MCM	500 MCM	600 MCM	750 MCM	800 MCM	1000 MCM	1250 MCM	1500 MCM	2000 MCM
Copper lugs and splices				■	■	■	■	■	■	■	■	■	■	■	■	■	■	■				
Aluminum lugs and splices				■	■	■	■	■	■	■	■	■	■	■	■	■	■					
"C" sleeve Connectors				■	■	■	■	■	■	■	■	■	■									

These tools are supplied without dies. For die selection, please refer to chart on pages 286 to 300

TECHNICAL FEATURES

Crimping force tons	*12*
Dimensions in.	
Length	*15.5*
Height	*14.6*
Width	*3.3*
Jaw Opening mm	*1.7*
Battery	*18.0V 5.2Ah*
Weight lbs. (with Battery)	*17.8*

STORAGE

Type	*VAL-P39*
Dimensions in. L x W x H	*20.5 x 17.0 x 5.0*
Weight lbs.	*5.7*
Supplied with the tool	✓

B1350L-CA-KV version also available for Power Supply Companies

PISTOL

EPS.

SMARTOOL TECHNOLOGY

The tool is supplied as:

- Basic tool with battery and shoulder strap
- Spare battery
- AC charger (110-115V)
- USB cable
- Plastic carrying case suitable for storing the tool and 8 die sets

B1350L-C version, Featuring a large 1.7 in. jaw opening, for an easier introduction/removal of large size compression terminations and joints.

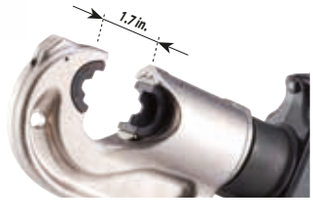
B1350L-CA is suitable for a wide range of connectors up to 800 MCM using all semi-circular slotted dies common to the Cembre 12 tons tooling range.
New Li-Ion 18V - 5.2Ah batteries offer a higher capacity, while greater crimping speed and crimping force result from a revitalised hydraulic system with double speed action: a rapid approach of the dies to the connector then a slower, more powerful speed for crimping.
A maximum pressure sensor and pressure relief valve assure greater precision and repeatability of the pressure cycle and double the provision for operator safety.
The OLED display provides essential real time tool operating information data including:

- Crimping pressure and force being generated, for confirmation of adherence to norms and best practice
- Battery power availability
- Tool identification, LED work light state, reset, no. of operational and service crimping cycles
- Tool service required to maintain optimum condition.

Crimps for charge

Terminal	Conductor (AWG)	Die Set		Approx. No of crimps
Cembre Copper tube crimping lugs	3	ME5-C	⬡	150
	250 MCM	ME24-C	⬡	116
	500 MCM	ME48-C	⬡	95

12 tons · Li-Ion 18.0V · SPEED · 180° · 1.7 in. HEAD OPENING · OLED · BATTERY DISPLAY · PROTECTED · ONE HAND · SAFETY · MAX PRESSURE · RELEASE · SILENT · SMOOTH · ERGONOMIC · BALANCED · LED LIGHTING · BI-COMPONENT · ENERGY SAVE · DURABLE · 200k · +5°F +122°F · HEXAGONAL · RADIAL · INDENT · OVAL · CIRCULAR · CE · UKCA



Designed with improved balance, B1350L-CA is easily manageable during the crimping process and, by the use of bi-component plastics, has a shell with high resistance to wear and damage.
Rubber grip inserts, low noise and minimal vibration aid operator comfort while additional convenience and safety are provided by LED lighting of the working area.
Crimping cycle data (up to 200,000 events) is automatically stored on a memory card for transfer to PC by USB interface.

Operating temperature:
+5 to +122°F

CEMBRE

B1300-CA

18.0 V CORDLESS HYDRAULIC CRIMPING TOOL

general features

12 tons · Li-Ion 18.0V · SPEED · 180° · OLED · BATTERY DISPLAY · PROTECTED · ONE HAND · SAFETY · MAX PRESSURE · RELEASE · SILENT · SMOOTH · ERGONOMIC · BALANCED · LED LIGHTING · BI-COMPONENT · ENERGY SAVE · DURABLE · 200k · +5°F +122°F · HEXAGONAL · RADIAL · INDENT · OVAL · CIRCULAR · CE · UKCA

MAIN APPLICATIONS - max section AWG

Section AWG	22÷16	16÷14	12÷10	8	6	4	2	1/0	2/0	3/0	250 MCM	300 MCM	350 MCM	400 MCM	500 MCM	600 MCM	800 MCM	1000 MCM	1250 MCM	1500 MCM	2000 MCM
Copper lugs				■	■	■	■	■	■	■	■	■	■	■	■	■	■				
Copper splices				■	■	■	■	■	■	■	■	■	■	■							
"C" sleeve Connectors				■	■	■	■	■	■	■	■	■	■								

These tools are supplied without dies. For die selection, please refer to chart on pages 286 to 300

B1300-CA is suitable for a wide range of connectors up to 800 MCM using all semi-circular slotted dies common to the Cembre 12 tons tooling range. New Li-Ion 18V - 5.2Ah batteries offer a higher capacity, while greater crimping speed and crimping force result from a revitalised hydraulic system with double speed action: a rapid approach of the dies to the connector then a slower, more powerful speed for crimping.

A maximum pressure sensor and pressure relief valve assure greater precision and repeatability of the pressure cycle and double the provision for operator safety.
The OLED display provides essential real time tool operating information data including:

- Crimping pressure and force being generated, for confirmation of adherence to norms and best practice
- Battery power availability
- Tool identification, LED work light state, reset, no. of operational and service crimping cycles
- Tool service required to maintain optimum condition.

Crimps for charge

Terminal	Conductor (AWG)	Die Set		Approx. No of crimps
Cembre Copper tube crimping lugs	3	ME5-C	⬡	228
	250 MCM	ME24-C	⬡	141
	500 MCM	ME48-C	⬡	116

Designed with improved balance, B1300-CA is easily manageable during the crimping process and, by the use of bi-component plastics, has a shell with high resistance to wear and damage. Rubber grip inserts, low noise and minimal vibration aid operator comfort while additional convenience and safety are provided by LED lighting of the working area.
Crimping cycle data (up to 200,000 events) is automatically stored on a memory card for transfer to PC by USB interface.

TECHNICAL FEATURES

Crimping force tons	*12*
Dimensions in.	
Length	*16.0*
Height	*9.4*
Width	*4.0*
Jaw Opening mm	*1.0*
Battery	*18.0V 5.2Ah*
Weight lbs. (with Battery)	*14.3*

STORAGE

Type	*VAL-P44*
Dimensions in. L x W x H	*26.8 x 18.6 x 5.9*
Weight lbs.	*8.2*
Supplied with the tool	✓

The tool is supplied as:

- Basic tool with battery and shoulder strap
- Spare battery
- AC charger (110-115V)
- USB cable
- Plastic carrying case suitable for storing the tool and 12 die sets

Operating temperature:
+5 to +122°F

B1300-CA-KV
version also available for Power Supply Companies

LED lighting of the working area

Anatomically shaped grip for improved comfort

Slot-in battery with release button

Multifunction OLED display with touch button

18.0 V CORDLESS HYDRAULIC CRIMPING TOOL

B1300L-CA

general features

MAIN APPLICATIONS - max section AWG

Section AWG	22÷16	16÷14	12÷10	8	6	4	2	1/0	2/0	3/0	250 MCM	300 MCM	350 MCM	400 MCM	500 MCM	600 MCM	750 MCM	800 MCM	1000 MCM	1250 MCM	1500 MCM	2000 MCM
Copper lugs and splices				■	■	■	■	■	■	■	■	■	■	■	■	■	■	■				
Aluminum lugs and splices				■	■	■	■	■	■	■	■	■	■	■	■	■	■					
"C" sleeve Connectors				■	■	■	■	■	■	■	■	■	■									

These tools are supplied without dies. For die selection, please refer to chart on pages 286 to 300

TECHNICAL FEATURES

Crimping force tons	*12*
Dimensions in.	
Length	*18.5*
Height	*9.4*
Width	*4.0*
Jaw Opening mm	*1.7*
Battery	*18.0V 5.2Ah*
Weight lbs. (with Battery)	*17.6*

STANDARD

EPS.

SMARTOOL TECHNOLOGY

STORAGE

Type	*VAL-P44*
Dimensions in. L x W x H	*26.8 x 18.6 x 5.9*
Weight lbs.	*8.2*
Supplied with the tool	✓

The tool is supplied as:

- Basic tool with battery and shoulder strap
- Spare battery
- AC charger (110-115V)
- USB cable
- Plastic carrying case suitable for storing the tool and 12 die sets

The B1300L-CA version, Featuring a large 1.7 in. jaw opening, for an easier introduction/removal of large size compression terminations and joints.

B1300L-CA is suitable for a wide range of connectors up to 800 MCM using all semi-circular slotted dies common to the Cembre 12 tons tooling range.
New Li-Ion 18V - 5.2Ah batteries offer a higher capacity, while greater crimping speed and crimping force result from a revitalised hydraulic system with double speed action: a rapid approach of the dies to the connector then a slower, more powerful speed for crimping.
A maximum pressure sensor and pressure relief valve assure greater precision and repeatability of the pressure cycle and double the provision for operator safety.

The OLED display provides essential real time tool operating information data including:

- Crimping pressure and force being generated, for confirmation of adherence to norms and best practice
- Battery power availability
- Tool identification, LED work light state, reset, no. of operational and service crimping cycles
- Tool service required to maintain optimum condition.

Designed with improved balance, B1300L-CA is easily manageable during the crimping process and, by the use of bi-component plastics, has a shell with high resistance to wear and damage.
Rubber grip inserts, low noise and minimal vibration aid operator comfort while additional convenience and safety are provided by LED lighting of the working area.

Crimping cycle data (up to 200,000 events) is automatically stored on a memory card for transfer to PC by USB interface.
Operating temperature:
+5 to +122°F

B1300L-CA-KV version also available for Power Supply Companies

"KV" version of B1300L-CA tool is provided with additional coatings to protect the operator and tool against accidental brush contact with energised conductors.

CEMBRE

B1500A

18.0 V CORDLESS HYDRAULIC CRIMPING TOOL

15 tons · Li-Ion 18.0V · 2 SPEED · 180° · OLED · BATTERY DISPLAY · PROTECTED · ONE HAND · SAFETY · MAX PRESSURE · RELEASE · SILENT · SMOOTH · ERGONOMIC · BALANCED · LED LIGHTING · BI-COMPONENT · ENERGY SAVE · DURABLE · 200k · +5°F +122°F · HEXAGONAL · RADIAL · INDENT · OVAL · CIRCULAR · CE · UKCA

general features

MAIN APPLICATIONS - max section AWG

- Copper #8 AWG - 1500 MCM
- Aluminium #8 AWG - 1250 MCM

STANDARD · EPS · SMARTOOL TECHNOLOGY

B1500A will accept directly all "P" dies commonly used in industry and, with the AU150-C adapter, all the semi-circular slotted dies, common to most 12 tons tools (U dies).
B1500A is able to crimp splices and lugs to 1250 MCM aluminum and 1500 MCM copper. New Li-Ion 18V - 5.2Ah batteries offer a higher capacity, while greater crimping speed and crimping force result from a revitalised hydraulic system with double speed action: a rapid approach of the dies to the connector then a slower, more powerful speed for crimping.
A maximum pressure sensor and pressure relief valve assure greater precision and repeatability of the pressure cycle and double the provision for operator safety.

The OLED display provides essential real time tool operating information data including:
- Crimping pressure and force being generated, for confirmation of adherence to norms and best practice
- Battery power availability
- Tool identification, LED work light state, reset, no. of operational and service crimping cycles
- Tool service required to maintain optimum condition.

Designed with improved balance, B1500A is easily manageable during the crimping process and, by the use of bi-component plastics, has a shell with high resistance to wear and damage.

Rubber grip inserts, low noise and minimal vibration aid operator comfort while additional convenience and safety are provided by LED lighting of the working area.
Crimping cycle data (up to 200,000 events) is automatically stored on a memory card for transfer to PC by USB interface.
Operating temperature: +5 to +122°F

The tool is supplied as:
- Basic tool with battery and shoulder strap
- Spare battery
- AC charger (110-115V)
- USB cable
- Metal carrying case suitable for storing the tool and 12 die sets

TECHNICAL FEATURES

Crimping force tons	*15*
Dimensions in.	
Length	*20.7*
Height	*9.9*
Width	*4.0*
Battery	*18.0V 5.2Ah*
Weight lbs. (with Battery)	*21.4*

STORAGE

Type	*VAL-B1500*
Dimensions in. L x W x H	*22.2 x 16.1 x 5.2*
Weight lbs.	*14.7*
Supplied with the tool	✓

DIE SELECTOR CHART

Copper Conductor (MCM)		Die Set	
low stranded	multi stranded		
1000	-	ME100-P	⬡
1250	1000	ME120-P	⬡
-	-	MUT9930-P index 301	⬡
-	-	MUT9931-P index 302	⬡

Openable head

Multifunction OLED display with touch button

Anatomically shaped grip for improved comfort

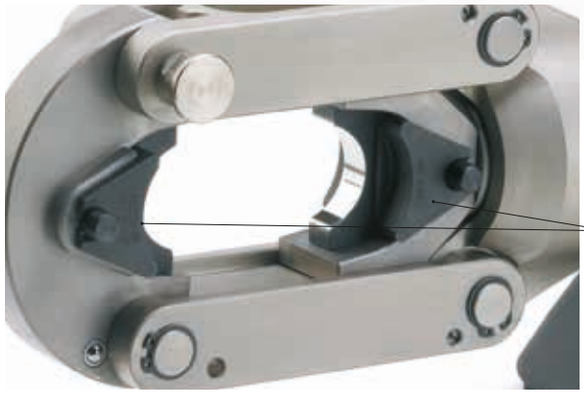
Slot-in battery with release button

18.0 V CORDLESS HYDRAULIC CRIMPING TOOL

B1500A

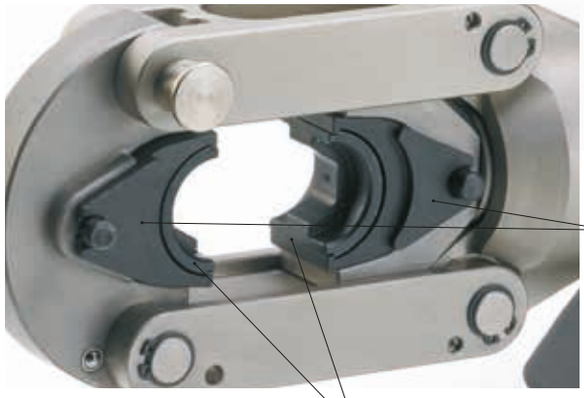
general features

The B1500A with “P” dies.



15 tons
Li-Ion 18.0V
2 SPEED
180°
OLED
BATTERY DISPLAY
PROTECTED
ONE HAND
SAFETY
MAX PRESSURE
RELEASE
SILENT
SMOOTH
ERGONOMIC
BALANCED
LED LIGHTING
BI-COMPONENT
ENERGY SAVE
DURABLE
200k
+5°F +122°F
HEXAGONAL
RADIAL
INDENT
OVAL
CIRCULAR
CE
UK CA

The B1500A with adapter AU150-C for accepting “U” dies.



CEMBRE

B-TC250YNDA

18.0 V CORDLESS HYDRAULIC CUTTING TOOL

overhead line application

Ø 1 in. | Li-Ion 18.0V | SPEED | HEAD OPENING | SPECIAL | 180° | BATTERY DISPLAY | PROTECTED | ONE HAND | SAFETY | RELEASE | SILENT | SMOOTH | ERGONOMIC | BALANCED | LED LIGHTING | BI-COMPONENT | ENERGY SAVE | DURABLE | 200k | +5°F +122°F | CE | UK CA

MAIN APPLICATIONS

specifically designed to cut Copper, Aldrey, Aluminum, Aluminum-Steel cables, Steel ropes having a max overall diameter of 1", guy wire up to 7/8" and steel ground rod up to 5/8"

BILINEAR

SMARTOOL TECHNOLOGY

Ideal for EHS guy wire

TECHNICAL FEATURES

Max cutting Ø in.	*up to 1*
Dimensions in.	
Length	*16.3*
Height	*5.4*
Width	*3.2*
Battery	*18.0V 2.0Ah*
Weight lbs. (with Battery)	*8.2*

STORAGE

Type	*VAL-P22*
Dimensions in. L x W x H	*18.3 x 12.4 x 4.6*
Weight lbs.	*3.3*
Supplied with the tool	✓

The tool is supplied as:

- Basic tool with battery and wrist strap
- Spare battery
- AC charger (110-115V)
- USB cable
- Plastic carrying case suitable for storing the tool and accessories

B-TC250YNDA is a new generation of hand-held cordless tools, characterised by a "Bilinear" mechanical design.
B-TC250YNDA is specifically designed cut Copper, Aldrey, Aluminum, Aluminum-Steel cables, Steel ropes having a max overall diameter of 1", guy wire up to 7/8" and steel ground rod up to 5/8".
The blades are manufactured from high strength special Steel, heat treated to ensure a long service life. New Li-Ion 18 V 2 Ah batteries offer a higher capacity, while greater cutting speed and cutting force result from a revitalised hydraulic system with double speed action.
The battery is equipped with led indicators that indicate the remaining battery life at any time by pressing the adjacent button.

The head can rotate through 180 degrees, to enable the operator to work in the most comfortable position, and can easily be opened to allow cutting of running cables.
Fitted with a maximum hydraulic pressure valve.
Weight and balance have been reconfigured to yield improvements in handling and convenience.
The more rigid structure of the bi-component plastic body provides greater mechanical protection while its rubber inserts boost operator safety and comfort.
Quieter operation, illumination of the working area via LED lights and a minimum of vibration enhance the tool's practicality.
Two batteries and AC charger (110-115V) included. Same charger of all our tools.
Operating temperature:
+5 to +122°F

CUTTING CAPACITY

	MATERIAL	TENSILE STRENGTH (lbs./sq.in.)	MAX CUTTING DIAMETER (in.) B-TC250YNDA
ROPES & CONDUCTORS	Copper	≤ 59,450	1
	Aluminum	≤ 29,000	1
	Almelec	≤ 49,300	1
	Steel	≤ 261,000	INDICATIVE EXAMPLES: 7 x 0.118 = Ø out. 0.354 19 x 0.083 = Ø out. 0.413 19 x 0.091 = Ø out. 0.453
	MULTI STRANDS Steel (STRANDS Qty ≥ 200)	≤ 261,000	0.709
	ACSR	≤ 261,000	1 INDICATIVE EXAMPLES: 26 x 0.098 + 7 x 0.077 : Ø out. = 0.624 26 x 0.120 + 7 x 0.094 : Ø out. = 0.763 26 x 0.142 + 7 x 0.110 : Ø out. = 0.897
RODS	Steel	≤ 87,000	0.511
		≤ 60,900	0.629
	Copper	≤ 43,000	0.787
		≤ 36,250	0.905
	Aluminum	≤ 23,200	1

18.0 V CORDLESS HYDRAULIC CUTTING TOOL

B-TC320NDA

overhead line application

MAIN APPLICATIONS

specifically designed to cut Copper, aldrey, Aluminium, Aluminium-Steel cables and Steel ropes, Aluminium and Steel rods having Ø max 1.26"

STORAGE

Type	*VAL-P48*
Dimensions in. L x W x H	*24.4 x 14.2 x 5.4*
Weight lbs.	*5.3*
Supplied with the tool	✓

TECHNICAL FEATURES

Max cutting Ø in.	*1.26*
Dimensions in.	
Length	*17.4*
Height	*5.0*
Width	*3.1*
Battery	*18.0V 2.0Ah*
Weight lbs. (with Battery)	*8.7*

BILINEAR

SMARTOOL TECHNOLOGY

The tool is supplied as:

- Basic tool with battery and wrist strap
- Spare battery
- AC charger (110-115V)
- USB cable
- Plastic carrying case suitable for storing the tool and accessories

Ø 1.26 in. · Li-Ion 18.0V · SPEED · SPECIAL · 180° · BATTERY DISPLAY · PROTECTED · ONE HAND · SAFETY · RELEASE · SILENT · SMOOTH · ERGONOMIC · BALANCED · LED LIGHTING · BI-COMPONENT · ENERGY SAVE · DURABLE · 200k · +5°F +122°F · CE · UK CA

B-TC320NDA is a new generation of hand-held cordless tools, characterised by a "Bilinear" mechanical design. B-TC320NDA is specifically designed to cut Copper, aldrey, Aluminum, Aluminium-Steel cables and Steel ropes, Aluminium and Steel rods having a max overall diameter of 1.26".
The blades are manufactured from high strength special Steel, heat treated to ensure a long service life.
New Li-Ion 18.0V - 2.0Ah batteries offer a higher capacity, while greater cutting speed and cutting force result from a revitalised hydraulic system with double speed action.
The battery is equipped with led indicators that indicate the remaining battery life at any time by pressing the adjacent button.
The head can rotate through 180 degrees, to enable the operator to work in the most comfortable position, and can easily be opened to allow cutting of running cables.
Fitted with a maximum hydraulic pressure valve. Weight and balance have been reconfigured to yield improvements in handling and convenience.
The more rigid structure of the bi-component plastic body provides greater mechanical protection while its rubber inserts boost operator safety and comfort. Quieter operation, illumination of the working area via LED lights and a minimum of vibration enhance the tool's practicality.
Two batteries and AC charger (110-115V) included. Same charger of all our tools. Operating temperature: +5 to +122°F

CUTTING CAPACITY - a few examples

Section AWG/MCM	Section in².	Ø in.	Stranding # x in.	Conductor Type
200		0.524	-	*RIM120*
1/0		0.350	7/0.0208	*Bronze*
2/0		0.405	19/0.0811	*Bronze*
4/0		0.492	19/0.0984	*Bronze*
2/0		0.421	19/0.0843	*Aluminium*
4/0		0.492	19/0.0984	*Aluminium*
300		0.620	37/0.0886	*Aluminium*
	0.500 (BUTTERFLY)	0.915	19/0.183	*Aluminium*
	0.6244 (ARBUTUS)	1.026	37/0.1466	*Aluminium*
	0.0542/0.0093	0.319	6/0.1063 + 1/0.1063	*Aluminium-steel*
	0.0775/0.0124	0.378	6/0.1260 + 1/0.1260	*Aluminium-steel*
	0.0775/0.0465	0.461	12/0.0917 + 7/0.0917	*Aluminium-steel*
	0.1085/0.0186	0.461	26/0.0788 + 7/0.0567	*Aluminium-steel*
	0.1473/0.0233	0.535	26/0.0846 + 7/0.0657	*Aluminium-steel*
	0.2325/0.0388	0.673	26/0.1063 + 7/0.0827	*Aluminium-steel*
	0.2635/0.0620	0.744	30/0.1063 + 7/0.1063	*Aluminium-steel*
	0.2868/0.0465	0.748	26/0.1181 + 7/0.0717	*Aluminium-steel*
	0.3565/0.0465	0.827	24/0.1378 + 7/0.0917	*Aluminium-steel*
	0.3720/0.0620	0.862	26/0.1358 + 7/0.1055	*Aluminium-steel*
	0.7493/0.0542	1.165	45/0.1472 + 7/0.098	*Aluminium-steel*
	0.4371/0.0243 (OSPREY)	0.878	18/0.1758 + 1/0.1758	*Aluminium-steel*
	0.4371/0.0662 (DOVE)	0.927	26/0.1463 + 7/0.1138	*Aluminium-steel*
	0.3711 (POPLAR)	0.791	37/0.113	*Rope Aluminum Alloy*
1/0		0.433	Class 5	*Aluminium flex*
4/0		0.728	-	*Insulated Steel flex*
300		0.630	19/0.126	*Cu*
2/0		0.472	2214/0.0079	*Cu extra flex*
5		0.232	126/0.0157	*Cu flex*
250		0.649	608/0.0197	*Cu flex*
500		0.906	1221/0.0197	*Cu flex*

CEMBRE

B-TC250YA

18.0 V CORDLESS HYDRAULIC CUTTING TOOL

overhead line application

Ø 1 in. | Li-Ion 18.0V | SPEED | HEAD OPENING | SPECIAL | 180° | BATTERY DISPLAY | PROTECTED | ONE HAND | SAFETY | RELEASE | SILENT | SMOOTH | ERGONOMIC | BALANCED | LED LIGHTING | BI-COMPONENT | ENERGY SAVE | DURABLE | 200k | +5°F +122°F | CE | UK CA

MAIN APPLICATIONS

specifically designed to cut Copper, Aldrey, Aluminum, Aluminum-Steel cables, Steel ropes having a max overall diameter of 1", guy wire up to 7/8" and steel ground rod up to 5/8"

PISTOL

SMARTOOL TECHNOLOGY

TECHNICAL FEATURES

Max cutting Ø in.	*up to 1*
Dimensions in.	
Length	*12.2*
Height	*13.5*
Width	*3.3*
Battery	*18.0V 5.2Ah*
Weight lbs. (with Battery)	*10.5*

STORAGE

Type	*VAL-P40*
Dimensions in. L x W x H	*20.5 x 17.0 x 5.0*
Weight lbs.	*5.7*
Supplied with the tool	✓

Ideal for EHS guy wire

The tool is supplied as:

- Basic tool with battery and shoulder strap
- Spare battery
- AC charger (110-115V)
- USB cable
- Plastic carrying case suitable for storing the tool and accessories

Next generation of 18.0 V cordless hydraulic cutting tool specifically designed cut Copper, Aldrey, Aluminum, Aluminum-Steel cables, Steel ropes having a max overall diameter of 1", guy wire up to 7/8" and steel ground rod up to 5/8".
The blades are manufactured from high strength special Steel, heat treated to ensure a long service life. New Li-Ion 18V - 5.2Ah batteries offer a higher capacity, while greater cutting speed and cutting force result from a revitalised hydraulic system with double speed action.
The battery is equipped with led indicators that indicate the remaining battery life at any time by pressing the adjacent button.

The head can rotate through 180 degrees, to enable the operator to work in the most comfortable position, and can easily be opened to allow cutting of running cables.
Fitted with a maximum hydraulic pressure valve.
Designed with improved balance, B-TC250YA is easily manageable during the cutting process and, by the use of bi-component plastics, has a shell with high resistance to wear and damage.
Rubber grip inserts, low noise and minimal vibration aid operator comfort while additional convenience and safety are provided by LED lighting of the working area.
Two batteries and AC charger (110-115V) included. Same charger of all our tools.
Operating temperature:
+5 to +122°F.

CUTTING CAPACITY

	MATERIAL	TENSILE STRENGTH (lbs./sq.in.)	MAX CUTTING DIAMETER (in.) B-TC250YA
ROPES & CONDUCTORS	Copper	≤ 59,450	1
	Aluminum	≤ 29,000	1
	Almelec	≤ 49,300	1
	Steel	≤ 261,000	INDICATIVE EXAMPLES: 7 x 0.118 = Ø out. 0.354 19 x 0.083 = Ø out. 0.413 19 x 0.091 = Ø out. 0.453
	MULTI STRANDS Steel (STRANDS Qty ≥ 200)	≤ 261,000	0.709
	ACSR	≤ 261,000	1 INDICATIVE EXAMPLES: 26 x 0.098 + 7 x 0.077 : Ø out. = 0.624 26 x 0.120 + 7 x 0.094 : Ø out. = 0.763 26 x 0.142 + 7 x 0.110 : Ø out. = 0.897
RODS	Steel	≤ 87,000	0.511
		≤ 60,900	0.629
	Copper	≤ 43,000	0.787
		≤ 36,250	0.905
	Aluminum	≤ 23,200	1

18.0 V CORDLESS HYDRAULIC CUTTING TOOL

B-TC450A

overhead line application

MAIN APPLICATIONS

specifically designed to cut Copper, Aldrey, Aluminium, Aluminium-Steel cables and Steel ropes, Aluminium and Steel rods having Ø max 1-3/4"

PISTOL

SMARTOOL TECHNOLOGY

TECHNICAL FEATURES

Max cutting Ø in.	*up to 1-3/4*
Dimensions in.	
Length	*16.0*
Height	*15.8*
Width	*3.5*
Battery	*18.0V 5.2Ah*
Weight lbs. (with Battery)	*14.7*

Ideal for EHS guy wire

STORAGE

Type	*VAL-P40*
Dimensions in. L x W x H	*20.5 x 17.0 x 5.0*
Weight lbs.	*5.7*
Supplied with the tool	✓

Ø 1-3/4 in. | Li-Ion 18.0V | 2 SPEED | HEAD OPENING | SPECIAL | 180° | BATTERY DISPLAY | PROTECTED | ONE HAND | SAFETY | RELEASE | SILENT | SMOOTH | ERGONOMIC | BALANCED | LED LIGHTING | BI-COMPONENT | ENERGY SAVE | DURABLE | 200k | +5°F +122°F | CE | UKCA

The tool is supplied as:

- Basic tool with battery and shoulder strap
- Spare battery
- AC charger (110-115V)
- USB cable
- Plastic carrying case suitable for storing the tool and accessories

CUTTING CAPACITY

	MATERIAL	TENSILE STRENGTH (lbs./sq.in.)	MAX CUTTING DIAMETER (in.) B-TC450A
ROPES & CONDUCTORS	Copper	≤ 59,450	1-3/4"
	Aluminum	≤ 29,000	1-3/4"
	Almelec	≤ 49,300	1-3/4"
	Steel	≤ 261,000	INDICATIVE EXAMPLES: 7 x 0.118 = Ø out. 0.354 19 x 0.083 = Ø out. 0.413 19 x 0.091 = Ø out. 0.453
	MULTI STRANDS Steel (STRANDS Qty ≥ 200)	≤ 261,000	0.709
	ACSR	≤ 261,000	1-3/4" INDICATIVE EXAMPLES: 26 x 0.098 + 7 x 0.077 : Ø out. = 0.624 26 x 0.120 + 7 x 0.094 : Ø out. = 0.763 26 x 0.142 + 7 x 0.110 : Ø out. = 0.897 54 x 0.138 + 19 x 0.082 : Ø out. = 1.240 54 x 0.172 + 19 x 0.103 : Ø out. = 1.543
RODS	Steel	≤ 87,000	0.709
		≤ 60,900	0.787
	Copper	≤ 43,000	1.181
		≤ 36,250	1.260
	Aluminum	≤ 23,200	1-3/4"

Next generation of 18.0 V cordless hydraulic cutting tool specifically designed to cut Copper, Aldrey, Aluminum, Aluminum-Steel cables and Steel ropes, Aluminium and Steel rods having a max overall diameter of 1-3/4".
The blades are manufactured from high strength special Steel, heat treated to ensure a long service life.
New Li-Ion 18V - 5.2Ah batteries offer a higher capacity than 14.4 V 3 Ah, while greater cutting speed and cutting force result from a revitalised hydraulic system with double speed action.
The battery is equipped with LED indicators to show the remaining battery life at any time by pressing the adjacent button.

The head can rotate through 180 degrees, to enable the operator to work in the most comfortable position, and can easily be opened to allow cutting of running cables.
Fitted with a maximum hydraulic pressure valve.
Designed with improved balance, B-TC450A is easily manageable during the cutting process and, by the use of bi-component plastics, has a shell with high resistance to wear and damage.
Rubber grip inserts, low noise and minimal vibration aid operator comfort while additional convenience and safety are provided by LED lighting of the working area.
Two batteries and AC charger (110-115V) included. Same charger of all our tools.
Operating temperature:
+5 to +122°F.

CEMBRE

B-TC500YA

18.0 V CORDLESS HYDRAULIC CUTTING TOOL

overhead line application

Ø 2 in. | Li-Ion 18.0V | SPEED | HEAD OPENING | SPECIAL | 90° | BATTERY DISPLAY | PROTECTED | ONE HAND | SAFETY | RELEASE | SILENT | SMOOTH | ERGONOMIC | BALANCED | LED LIGHTING | BI-COMPONENT | ENERGY SAVE | DURABLE | 200k | +5°F +122°F | CE | UK CA

MAIN APPLICATIONS

specifically designed to cut Copper, Aluminum, Aluminum-Steel cables (ACSR) having a max overall diameter of 2"

not suitable for cutting guy wire and ground rod

PISTOL

SMARTOOL TECHNOLOGY

For ACSR only, not suitable for cutting guy wire and ground rod

TECHNICAL FEATURES

Max cutting Ø in.	*up to 2*
Dimensions in.	
Length	*15.9*
Height	*15.6*
Width	*3.3*
Battery	*18.0V 5.2Ah*
Weight lbs. (with Battery)	*12.7*

STORAGE

Type	*VAL-P40*
Dimensions in. L x W x H	*20.5 x 17.0 x 5.0*
Weight lbs.	*5.7*
Supplied with the tool	✓

Next generation of 18.0 V cordless hydraulic cutting tool specifically designed to cut copper, aluminum, aluminum-steel cables (ACSR) having a max overall diameter of 2".
The blades are manufactured from high strength special Steel, heat treated to ensure a long service life.
New Li-Ion 18V - 5.2Ah batteries offer a higher capacity, while greater cutting speed and cutting force result from a revitalised hydraulic system with double speed action.
The battery is equipped with led indicators that indicate the remaining battery life at any time by pressing the adjacent button.
The head can rotate through 90 degrees, to enable the operator to work in the most comfortable position, and can easily be opened to allow cutting of running cables.
Fitted with a maximum hydraulic pressure valve.
Designed with improved balance, B-TC500YA is easily manageable during the cutting process and, by the use of bi-component plastics, has a shell with high resistance to wear and damage.
Rubber grip inserts, low noise and minimal vibration aid operator comfort while additional convenience and safety are provided by LED lighting of the working area.
Two batteries and AC charger (110-115V) included. Same charger of all our tools.
Operating temperature:
+5 to +122°F

The tool is supplied as:

- Basic tool with battery and shoulder strap
- Spare battery
- AC charger (110-115V)
- USB cable
- Plastic carrying case suitable for storing the tool and accessories

18.0 V CORDLESS HYDRAULIC CUTTING TOOL

B-TC550A

overhead line application

MAIN APPLICATIONS

Specifically designed to cut Copper, Aluminum, Aluminum-Steel cables (ACSR) Steel ropes and rods having a max overall diameter of 2-3/16"

PISTOL

SMARTOOL TECHNOLOGY

Ø 2-3/16 in. | Li-Ion 18.0V | 2 SPEED | HEAD OPENING | SPECIAL | 330° | BATTERY DISPLAY | PROTECTED | ONE HAND | SAFETY | RELEASE | SILENT | SMOOTH | ERGONOMIC | BALANCED | LED LIGHTING | BI-COMPONENT | ENERGY SAVE | DURABLE | 200k | +5°F +122°F | CE | UKCA

TECHNICAL FEATURES

Max cutting Ø in.	*2-3/16*
Dimensions in.	
Length	*17.4*
Height	*16.7*
Width	*3.4*
Battery	*18.0V 5.2Ah*
Weight lbs. (with Battery)	*19.6*

STORAGE

Type	*VAL-P40*
Dimensions in. L x W x H	*20.5 x 17.0 x 5.0*
Weight lbs.	*5.7*
Supplied with the tool	✓

Ideal for 795 MCM ACSR Drake and EHS guy wire

The tool is supplied as:

- Basic tool with battery and shoulder strap
- Spare battery
- AC charger (110-115V)
- USB cable
- Plastic carrying case suitable for storing the tool and accessories

Next generation of 18.0 V cordless hydraulic cutting tool Specifically designed to cut copper, aluminum, aluminum-steel cables (ACSR) steel ropes and rods having a max overall diameter of 2-3/16".
The blades are manufactured from high strength special Steel, heat treated to ensure a long service life. New Li-Ion 18V - 5.2Ah batteries offer a higher capacity, while greater cutting speed and cutting force result from a revitalised hydraulic system with double speed action.
The battery is equipped with led indicators that indicate the remaining battery life at any time by pressing the adjacent button.
The head can rotate through 330 degrees, to enable the operator to work in the most comfortable position, and can easily be opened to allow cutting of running cables.

Fitted with a maximum hydraulic pressure valve.
Designed with improved balance, B-TC550A is easily manageable during the cutting process and, by the use of bi-component plastics, has a shell with high resistance to wear and damage.
Rubber grip inserts, low noise and minimal vibration aid operator comfort while additional convenience and safety are provided by LED lighting of the working area.
Two batteries and AC charger (110-115V) included. Same charger of all our tools.
Operating temperature:
+5 to +122°F

CUTTING CAPACITY

	MATERIAL	TENSILE STRENGTH (lbs./sq.in.)	MAX CUTTING DIAMETER (mm) B-TC550A
ROPES & CONDUCTORS	Copper	≤ 59,450	2-3/16"
	Aluminum	≤ 29,000	2-3/16"
	Almelec	≤ 49,300	2-3/16"
	Steel	≤ 261,000	INDICATIVE EXAMPLES: 7 x 0.118 = Ø out. 0.354 19 x 0.083 = Ø out. 0.413 19 x 0.091 = Ø out. 0.453
	MULTI STRANDS Steel (STRANDS Qty ≥ 200)	≤ 261,000	22
	ACSR	≤ 261,000	50 INDICATIVE EXAMPLES: 26 x 0.098 + 7 x 0.077 : Ø out. = 0.624 26 x 0.120 + 7 x 0.094 : Ø out. = 0.763 26 x 0.142 + 7 x 0.110 : Ø out. = 0.897 26 x 0.175 + 7 x 0.136 : Ø out. = 1.108 54 x 0.138 + 19 x 0.082 : Ø out. = 1.240 54 x 0.172 + 19 x 0.103 : Ø out. = 1.543 83 x 0.181 + 16 x 0.110 : Ø est. = 1.968
	GUY WIRE (GW15-9/16-188)	Extra high strenght grade	7 x 0.188 : Ø est. = 0.562 in.
RODS	Steel	≤ 87,000	0.787
		≤ 60,900	0.866
	Copper	≤ 43,000	1.338
		≤ 36,250	1.515
	Aluminum	≤ 23,200	1.968

CEMBRE

B-TC320NDFA

18.0 V CORDLESS HYDRAULIC CUTTING TOOL

industrial application

Ø 1.26 in. | Li-Ion 18.0V | 2 SPEED | SPECIAL | 180° | BATTERY DISPLAY | PROTECTED | ONE HAND | SAFETY | RELEASE | SILENT | SMOOTH | ERGONOMIC | BALANCED | LED LIGHTING | BI-COMPONENT | ENERGY SAVE | DURABLE | 200k | +5°F +122°F | CE | UKCA

MAIN APPLICATIONS

specifically designed to cut Copper, Aluminum and Telecommunications cable having Ø max 1.26 in.

BILINEAR

SMARTOOL TECHNOLOGY

TECHNICAL FEATURES

Max cutting Ø in.	*1.26*
Dimensions in.	
Length	*17.5*
Height	*5.4*
Width	*3.2*
Battery	*18.0V 2.0Ah*
Weight lbs. (with Battery)	*8.8*

STORAGE

Type	*VAL-P48*
Dimensions in. L x W x H	*24.4 x 14.2 x 5.4*
Weight lbs.	*5.3*
Supplied with the tool	✓

B-TC320NDFA is a new generation of hand-held cordless tools, characterised by a "Bilinear" mechanical design.
B-TC320NDFA is specifically designed to cut Copper, Aluminum and telecommunication cable having a max overall diameter of 1.26".
The blades are manufactured from high strength special Steel, heat treated to ensure a long service life. New Li-Ion 18.0V - 2.0Ah batteries offer a higher capacity, while greater cutting speed and cutting force result from a revitalised hydraulic system with double speed action.
The battery is equipped with led indicators that indicate the remaining battery life at any time by pressing the adjacent button.

The head can rotate through 180 degrees, to enable the operator to work in the most comfortable position, and can easily be opened to allow cutting of running cables.
Fitted with a maximum hydraulic pressure valve.
Weight and balance have been reconfigured to yield improvements in handling and convenience.
The more rigid structure of the bi-component plastic body provides greater mechanical protection while its rubber inserts boost operator safety and comfort. Quieter operation, illumination of the working area via LED lights and a minimum of vibration enhance the tool's practicality.
Two batteries and charger included.
Same charger of all our tools.
Operating temperature:
+5 to +122°F

The tool is supplied as:

- Basic tool with battery and wrist strap
- Spare battery
- AC charger (110-115V)
- USB cable
- Plastic carrying case suitable for storing the tool and accessories

18.0 V CORDLESS HYDRAULIC CUTTING TOOL

B-TC500ND-SCA

industrial application

MAIN APPLICATIONS

specifically designed to cut Copper, Aluminum and Telecommunications cable having Ø max 2.1 in.

TECHNICAL FEATURES

Max cutting Ø in.	*2.1*
Dimensions in.	
Length	*20.7*
Height	*6.0*
Width	*3.2*
Battery	*18.0V 2.0Ah*
Weight lbs (with Battery)	*8.6*

BILINEAR

SMARTOOL TECHNOLOGY

STORAGE

Type	*VAL-P59*
Dimensions in. L x W x H	*24.4 x 14.2 x 5.4*
Weight lbs.	*5.3*
Supplied with the tool	✓

The tool is supplied as:

- Basic tool with battery and wrist strap
- Spare battery
- AC charger (110-115V)
- USB cable
- Plastic carrying case suitable for storing the tool and accessories

Ø 2.1 in. · Li-Ion 18.0V · 2 SPEED · SPECIAL · 180° · BATTERY DISPLAY · PROTECTED · ONE HAND · SAFETY · RELEASE · SILENT · SMOOTH · ERGONOMIC · BALANCED · LED LIGHTING · BI-COMPONENT · ENERGY SAVE · DURABLE · 200k · +5°F +122°F · CE · UK CA

B-TC500ND-SCA is a new generation of hand-held cordless tools, characterised by a "Bilinear" mechanical design.
B-TC500ND-SCA is specifically designed to cut Copper, Aluminum and telecommunication cable having a max overall diameter of 2.1".
The blades are manufactured from high strength special Steel, heat treated to ensure a long service life. New Li-Ion 18.0V - 2.0Ah batteries offer a higher capacity, while greater cutting speed and cutting force result from a revitalised hydraulic system with double speed action.
The battery is equipped with led indicators that indicate the remaining battery life at any time by pressing the adjacent button.

The head can rotate through 180 degrees, to enable the operator to work in the most comfortable position, and can easily be opened to allow cutting of running cables.
Fitted with a maximum hydraulic pressure valve.
Weight and balance have been reconfigured to yield improvements in handling and convenience.
The more rigid structure of the bi-component plastic body provides greater mechanical protection while its rubber inserts boost operator safety and comfort.
Quieter operation, illumination of the working area via LED lights and a minimum of vibration enhance the tool's practicality.
Two batteries and charger included.
Same charger of all our tools.
Operating temperature:
+5 to +122°F

CEMBRE

B-TC500A

18.0 V CORDLESS HYDRAULIC CUTTING TOOL

industrial application

Ø 2 in. | Li-Ion 18.0V | SPEED | HEAD OPENING | SPECIAL | 90° | BATTERY DISPLAY | PROTECTED | ONE HAND | SAFETY | RELEASE | SILENT | SMOOTH | ERGONOMIC | BALANCED | LED LIGHTING | BI-COMPONENT | ENERGY SAVE | DURABLE | 200k | +5°F +122°F | CE | UK CA

MAIN APPLICATIONS

specifically designed to cut Copper, Aluminum and Telecommunications cable having max overall diameter of 2"

PISTOL

SMARTOOL TECHNOLOGY

Not suitable for cutting steel reinforced conductors

TECHNICAL FEATURES

Max cutting Ø in.	*up to 2*
Dimensions in.	
Length	*15.9*
Height	*15.6*
Width	*3.3*
Battery	*18.0V 5.2Ah*
Weight lbs. (with Battery)	*12.7*

STORAGE

Type	*VAL-P40*
Dimensions in. L x W x H	*20.5 x 17.0 x 5.0*
Weight lbs.	*5.7*
Supplied with the tool	✓

Next generation of 18.0 V cordless hydraulic cutting tool specifically designed to cut copper, aluminum and telecommunication cables having a max overall diameter of 2".
The blades are manufactured from high strength special Steel, heat treated to ensure a long service life.
New Li-Ion 18V - 5.2Ah batteries offer a higher capacity, while greater cutting speed and cutting force result from a revitalised hydraulic system with double speed action.
The battery is equipped with led indicators that indicate the remaining battery life at any time by pressing the adjacent button.
The head can rotate through 90 degrees, to enable the operator to work in the most comfortable position, and can easily be opened to allow cutting of running cables.
Fitted with a maximum hydraulic pressure valve.
Designed with improved balance, B-TC500A is easily manageable during the cutting process and, by the use of bi-component plastics, has a shell with high resistance to wear and damage.
Rubber grip inserts, low noise and minimal vibration aid operator comfort while additional convenience and safety are provided by LED lighting of the working area.
Two batteries and AC charger (110-115V) included. Same charger of all our tools.
Operating temperature:
+5 to +122°F

The tool is supplied as:

- Basic tool with battery and shoulder strap
- Spare battery
- AC charger (110-115V)
- USB cable
- Plastic carrying case suitable for storing the tool and accessories

18.0 V CORDLESS HYDRAULIC CUTTING TOOL

B-TC650A

industrial application

MAIN APPLICATIONS

specifically designed to cut Copper, Aluminum and telecommunication cables having a max overall diameter of 2-9/16"

Ø 2-9/16 in. | Li-Ion 18.0V | SPEED | HEAD OPENING | SPECIAL | 335° | BATTERY DISPLAY | PROTECTED | ONE HAND | SAFETY | RELEASE | SILENT | SMOOTH | ERGONOMIC | BALANCED | LED LIGHTING | BI-COMPONENT | ENERGY SAVE | DURABLE | 200k | +5°F +122°F | CE | UKCA

PISTOL

SMARTOOL TECHNOLOGY

TECHNICAL FEATURES

Max cutting Ø in.	*up to 2-9/16*
Dimensions in.	
Length	*16.9*
Height	*16.3*
Width	*3.3*
Battery	*18.0V 5.2Ah*
Weight lbs. (with Battery)	*14.1*

STORAGE

Type	*VAL-P40*
Dimensions in. L x W x H	*20.5 x 17.0 x 5.0*
Weight lbs.	*5.7*
Supplied with the tool	✓

Not suitable for cutting steel reinforced conductors

The tool is supplied as:

- Basic tool with battery and shoulder strap
- Spare battery
- AC charger (110-115V)
- USB cable
- Plastic carrying case suitable for storing the tool and accessories

Next generation of 18.0 V cordless hydraulic cutting tool Specifically designed to cut copper, aluminum and telecommunication cables having a max overall diameter of 2-9/16".
The blades are manufactured from high strength special Steel, heat treated to ensure a long service life.
New Li-Ion 18V - 5.2Ah batteries offer a higher capacity, while greater cutting speed and cutting force result from a revitalised hydraulic system with double speed action.
The battery is equipped with led indicators that indicate the remaining battery life at any time by pressing the adjacent button.
The head can rotate through 335 degrees, to enable the operator to work in the most comfortable position, and can easily be opened to allow cutting of running cables.
Fitted with a maximum hydraulic pressure valve.

Designed with improved balance, B-TC650A is easily manageable during the cutting process and, by the use of bi-component plastics, has a shell with high resistance to wear and damage. Rubber grip inserts, low noise and minimal vibration aid operator comfort while additional convenience and safety are provided by LED lighting of the working area.
Two batteries and AC charger (110-115V) included. Same charger of all our tools.
Operating temperature:
+5 to +122°F

CEMBRE

B-TC650-SCA

18.0 V CORDLESS HYDRAULIC CUTTING TOOL

industrial application

Ø 2-9/16 in. | Li-Ion 18.0V | SPEED | SPECIAL | 180° | BATTERY DISPLAY | PROTECTED | ONE HAND | SAFETY | RELEASE | SILENT | SMOOTH | ERGONOMIC | BALANCED | LED LIGHTING | BI-COMPONENT | ENERGY SAVE | DURABLE | 200k | +5°F +122°F | CE | UKCA

MAIN APPLICATIONS

specifically designed to cut Copper, Aluminum and Telecommunications cable having a max overall diameter of 2-9/16"

Not suitable for cutting steel reinforced conductors

Next generation of 18.0 V cordless hydraulic cutting tool specifically designed to cut Copper, Aluminum and telecommunication cables having a max overall diameter of 2-9/16".
The blades are manufactured from high strength special Steel, heat treated to ensure a long service life.
The open head and the "scissor" movement of the blades facilitate the cutting of running cables.
New Li-Ion 18V - 5.2Ah batteries offer a higher capacity, while greater cutting speed and cutting force result from a revitalised hydraulic system with double speed action.
The battery is equipped with led indicators that indicate the remaining battery life at any time by pressing the adjacent button.

The head can rotate through 180 degrees, to enable the operator to work in the most comfortable position, and can easily be opened to allow cutting of running cables.
Fitted with a maximum hydraulic pressure valve.
Designed with improved balance, B-TC650-SCA is easily manageable during the cutting process and, by the use of bi-component plastics, has a shell with high resistance to wear and damage.
Rubber grip inserts, low noise and minimal vibration aid operator comfort while additional convenience and safety are provided by LED lighting of the working area.
Two batteries and AC charger (110-115V) included. Same charger of all our tools.
Operating temperature:
+5 to +122°F

TECHNICAL FEATURES

Max cutting Ø in.	*up to 2-9/16*
Dimensions in.	
Length	*19.8*
Height	*18.3*
Width	*4.1*
Battery	*18.0V 5.2Ah*
Weight lbs. (with Battery)	*16.9*

STORAGE

Type	*VAL-B-TC950*
Dimensions in. L x W x H	*22.2 x 16.1 x 5.2*
Weight lbs.	*14.7*
Supplied with the tool	✓

The tool is supplied as:
- Basic tool with battery and shoulder strap
- Spare battery
- AC charger (110-115V)
- USB cable
- Metal carrying case suitable for storing the tool and accessories

18.0 V CORDLESS HYDRAULIC CUTTING TOOL

B-TC950A

industrial application

MAIN APPLICATIONS

specifically designed to cut Copper, Aluminum and Telecommunications cable having a max overall diameter of 3-3/4"

Ø 3-3/4 in. | Li-Ion 18.0V | 2 SPEED | HEAD OPENING | SPECIAL | 335° | BATTERY DISPLAY | PROTECTED | ONE HAND | SAFETY | RELEASE | SILENT | SMOOTH | ERGONOMIC | BALANCED | LED LIGHTING | BI-COMPONENT | ENERGY SAVE | DURABLE | 200k | +5°F +122°F | CE | UKCA

PISTOL

SMARTOOL TECHNOLOGY

Not suitable for cutting steel reinforced conductors

TECHNICAL FEATURES

Max cutting Ø in.	*up to 3-3/4*
Dimensions in.	
Length	*20.4*
Height	*18.4*
Width	*3.3*
Battery	*18.0V 5.2Ah*
Weight lbs. (with Battery)	*17.1*

Next generation of 18.0 V cordless hydraulic cutting tool specifically designed to cut Copper, Aluminum and telecommunication cables having a max overall diameter of 3-3/4".
The blades are manufactured from high strength special Steel, heat treated to ensure a long service life.
New Li-Ion 18V - 5.2Ah batteries offer a higher capacity, while greater cutting speed and cutting force result from a revitalised hydraulic system with double speed action.
The battery is equipped with led indicators that indicate the remaining battery life at any time by pressing the adjacent button.
The head can rotate through 335 degrees, to enable the operator to work in the most comfortable position, and can easily be opened to allow cutting of running cables.
Fitted with a maximum hydraulic pressure valve.

Designed with improved balance, B-TC950A is easily manageable during the cutting process and, by the use of bi-component plastics, has a shell with high resistance to wear and damage.
Rubber grip inserts, low noise and minimal vibration aid operator comfort while additional convenience and safety are provided by LED lighting of the working area.
Two batteries and AC charger (110-115V) included. Same charger of all our tools.
Operating temperature:
+5 to +122°F

STORAGE

Type	*VAL-B-TC950*
Dimensions in. L x W x H	*22.2 x 16.1 x 5.2*
Weight lbs.	*14.7*
Supplied with the tool	✓

The tool is supplied as:

- Basic tool with battery and shoulder strap
- Spare battery
- AC charger (110-115V)
- USB cable
- Metal carrying case suitable for storing the tool and accessories

B-TC4500A

18.0 V CORDLESS HYDRAULIC CUTTING TOOL

overhead line application

Ø 1-3/4 in. | Li-Ion 18.0V | SPEED | HEAD OPENING | SPECIAL | 180° | BATTERY DISPLAY | PROTECTED | ONE HAND | SAFETY | RELEASE | SILENT | SMOOTH | ERGONOMIC | BALANCED | LED LIGHTING | BI-COMPONENT | ENERGY SAVE | DURABLE | 200k | +5°F +122°F | CE | UKCA

MAIN APPLICATIONS

specifically designed to cut Copper, Aldrey, Aluminum, Aluminum-Steel cables and Steel ropes, Aluminum and Steel rods having Ø max 1-3/4"

TECHNICAL FEATURES

Max cutting Ø in.	*1-3/4*
Dimensions in.	
Length	*19.1*
Height	*9.4*
Width	*4.0*
Battery	*18.0V 5.2Ah*
Weight lbs. (with Battery)	*14.1*

STORAGE

Type	*VAL-P54*
Dimensions in. L x W x H	*27.2 x 17.5 x 7.0*
Weight lbs.	*12.1*
Supplied with the tool	✓

STANDARD

SMARTOOL TECHNOLOGY

The tool is supplied as:

- Basic tool with battery and shoulder strap
- Spare battery
- AC charger (110-115V)
- USB cable
- Plastic carrying case suitable for storing the tool and accessories

Next generation of 18.0 V cordless hydraulic cutting tool specifically designed cut copper, aldrey, aluminium, aluminium-steel cables and steel ropes, aluminium and steel rods having a max overall diameter of 1-3/4".
The blades are manufactured from high strength special Steel, heat treated to ensure a long service life.
New Li-Ion 18V - 5.2Ah batteries offer a higher capacity, while greater cutting speed and cutting force result from a revitalised hydraulic system with double speed action.
The battery is equipped with led indicators that indicate the remaining battery life at any time by pressing the adjacent button.
The head can rotate through 180 degrees, to enable the operator to work in the most comfortable position, and can easily be opened to allow cutting of running cables.

Fitted with a maximum hydraulic pressure valve.
Designed with improved balance, B-TC4500A is easily manageable during the cutting process and, by the use of bi-component plastics, has a shell with high resistance to wear and damage.
Rubber grip inserts, low noise and minimal vibration aid operator comfort while additional convenience and safety are provided by LED lighting of the working area.
Two batteries and AC charger (110-115V) included. Same charger of all our tools.
Operating temperature: +5 to +122°F

CUTTING CAPACITY

	MATERIAL	TENSILE STRENGTH (lbs./sq.in.)	MAX CUTTING DIAMETER (in.) B-TC4500A
ROPES & CONDUCTORS	Copper	≤ 59,450	1-3/4"
	Aluminum	≤ 29,000	1-3/4"
	Almelec	≤ 49,300	1-3/4"
	Steel	≤ 261,000	INDICATIVE EXAMPLES: 7 x 0.118 = Ø out. 0.354 19 x 0.083 = Ø out. 0.413 19 x 0.091 = Ø out. 0.453
	MULTI STRANDS Steel (STRANDS Qty ≥ 200)	≤ 261,000	0.709
	ACSR	≤ 261,000	1-3/4" INDICATIVE EXAMPLES: 26 x 0.098 + 7 x 0.077 : Ø out. = 0.624 26 x 0.120 + 7 x 0.094 : Ø out. = 0.763 26 x 0.142 + 7 x 0.110 : Ø out. = 0.897 54 x 0.138 + 19 x 0.082 : Ø out. = 1.240 54 x 0.172 + 19 x 0.103 : Ø out. = 1.543
RODS	Steel	≤ 87,000	0.709
		≤ 60,900	0.787
	Copper	≤ 43,000	1.181
		≤ 36,250	1.260
	Aluminum	≤ 23,200	1-3/4"

18.0 V CORDLESS HYDRAULIC FRAME-TYPE HOLE PUNCHING TOOL

B-FC470A

general features

MAIN APPLICATIONS

specifically designed to punching holes from 0.61 up to 1.858 in. diameter

TECHNICAL FEATURES

Max hole punch Ø in.	*1.858*
Max centre of hole to edge of trunking in.	*2.11*
Dimensions in.	
Length	*14.9*
Height	*13.6*
Width	*3.3*
Battery	*18.0V 5.2Ah*
Weight lbs. (with Battery)	*13.6*

STORAGE

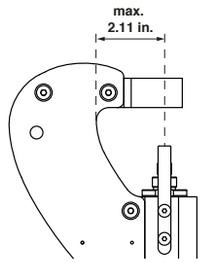
Type	*VAL-FC470*
Dimensions in. L x P	*22.0 x 18.1 x 5.2*
Weight lbs.	*14.7*
Supplied with the tool	✓

PISTOL

SMARTOOL TECHNOLOGY

The tool is supplied as:

- Basic tool with battery and shoulder strap
- Spare battery
- AC charger (110-115V)
- USB cable
- Metal carrying case suitable for storing the tool and accessories



Max centre of hole to edge of trunking: 2.11 in.

Next generation of 18.0 V cordless hydraulic cutting tool specifically designed to punching holes from 0.61 up to 1.858 in. diameter in the side wall of trunking without the need for pre drilling.
New Li-Ion 18V - 5.2Ah batteries offer a higher capacity, while greater punch speed and punching force result from a revitalised hydraulic system with double speed action.
The battery is equipped with led indicators that indicate the remaining battery life at any time by pressing the adjacent button.
The head can rotate through 180 degrees, to enable the operator to work in the most comfortable position, and can easily be opened to allow cutting of running cables.
Fitted with a maximum hydraulic pressure valve.

Designed with improved balance, B-FC470A is easily manageable during the punching process and, by the use of bi-component plastics, has a shell with high resistance to wear and damage.
Rubber grip inserts, low noise and minimal vibration aid operator comfort while additional convenience and safety are provided by LED lighting of the working area.
Two batteries and AC charger (110-115V) included. Same charger of all our tools.
Operating temperature: +5 to +122°F.
Also available in the hand operated mechanical version MT-FC48N (see page 132).

Table denoting the punch/die set reference, for each hole size. Suitable for punching holes in mild steel, fiberglass or plastic material, up to 0.08 in thick.

Hole Dimensions					Maximum thickness of mild Steel (in.)	Type
Nominal Ø (mm)	Nominal Ø (inch)	Pg	ISO	Inch		
15,5	.610	Pg9	-	-		RD15.5SS-FC
16,2	.638	-	ISO-16	-		RD16.2SS-FC
17,5	.689	-	-	-		RD17.5SS-FC
18,8	.740	Pg11	-	-		RD18.8SS-FC
19,1	.752	-	-	-		RD19.1SS
20,5	.807	Pg 13,5	ISO-20	-		RD20.5SS
22,6	.890	Pg16	-	-		RD22.6SS
23,8	.937	-	-	5/8"		RD23.8SS
25,4	1.000	-	ISO-25	-		RD25.4SS
27,0	1.063	-	-	3/4"		RD27SS
28,5	1.122	Pg21	-	-		RD28.5SS
30,5	1.201	-	-	7/8"	0.08	RD30.5SS
31,8	1.252	-	-	-		RD31.8SS
32,5	1.279	-	ISO-32	-		RD32.5SS
34,6	1.362	-	-	-		RD34.6SS
37,2	1.464	Pg29	-	-		RD37.2SS
38,1	1.500	-	-	-		RD38.1SS
40,5	1.594	-	ISO-40	-		RD40.5SS-FC
41,3	1.626	-	-	-		RD41.3SS-FC
42,5	1.673	-	-	1"1/4"		RD42.5SS-FC
43,2	1.701	-	-	-		RD43.2SS-FC
44,5	1.752	-	-	-		RD44.5SS-FC
47,2	1.858	Pg36	-	-		RD47.2SS-FC

CEMBRE

B-FL750NDA

18.0 V CORDLESS HYDRAULIC PULLER-TYPE HOLE PUNCHING TOOL

general features

MAIN APPLICATIONS

specifically designed for hole punching stainless Steel, mild Steel, fibreglass and plastic sheet materials up to 0.14 in. thickness

BILINEAR

SMARTOOL TECHNOLOGY

TECHNICAL FEATURES

Max Punching Ø in.	*5.5*
Dimensions in.	
Length	*18.7*
Height	*5.3*
Width	*3.2*
Battery	*18.0V 2.0Ah*
Weight lbs. (with Battery)	*9.0*

STORAGE

Type	*VAL-P57*
Dimensions in. L x W x H	*24.4 x 14.2 x 5.4*
Weight lbs.	*5.3*
Supplied with the tool	✓

B-FL750NDA is a new generation of hand-held cordless tools, characterised by a "Bilinear" mechanical design. B-FL750NDA is specifically designed for hole punching stainless Steel, mild Steel, fibreglass and plastic sheet materials up to 0.14 in. thickness.
New Li-Ion 18 V 2 Ah batteries offer a higher capacity, while greater punch speed and punching force result from a revitalised hydraulic system with double speed action.
The battery is equipped with LED indicators that indicate the remaining battery life at any time by pressing the adjacent button. The balanced punching head pivots 180deg through a full 360deg rotation for ease of use in confined spaces. Fitted with a maximum hydraulic pressure valve.
Designed with improved balance, B-FL750NDA is easily manageable during the punching process and, by the use of bi-component plastics, has a shell with high resistance to wear and damage.
Rubber grip inserts, low noise and minimal vibration aid operator comfort while additional convenience and safety are provided by LED lighting of the working area.
Operating temperature:
+5 to +122°F

The tool is supplied as:

- Basic tool with battery, wrist strap and Spare battery
- AC charger (110-115V), USB cable
- Pullers TD-11 and TD-19
- Spiral bit Ø 0.45 in.
- Plastic carrying case suitable for storing the tool and accessories

18.0 V CORDLESS HYDRAULIC PULLER-TYPE HOLE PUNCHING TOOL

B-FL750A

general features

MAIN APPLICATIONS

specifically designed for hole punching stainless Steel, mild Steel, fibreglass and plastic sheet materials up to 0.14 in. thickness

TECHNICAL FEATURES

Max Punching Ø in.	*5.5*
Dimensions in.	
Length	*14.3*
Height	*14.4*
Width	*3.3*
Battery	*18.0V 5.2Ah*
Weight lbs. (with Battery)	*11.2*

STORAGE

Type	*VAL-P56*
Dimensions in. L x W x H	*27.1 x 17.5 x 7.0*
Weight lbs.	*12.1*
Supplied with the tool	✓

The tool is supplied as:

- Basic tool with battery and shoulder strap
- Spare battery
- AC charger (110-115V)
- USB cable
- Puller TD-11
- Puller TD-19
- Spiral bit Ø 0.45 in.
- Plastic carrying case suitable for storing the tool and accessories

Universal joint allows punching head to pivot 180deg over a full 360deg rotation.

Next generation of 18.0 V cordless hydraulic tool specifically designed for hole punching stainless Steel, mild Steel, fibreglass and plastic sheet materials up to 0.14 in. thickness.
New Li-Ion 18V - 5.2Ah batteries offer a higher capacity, while greater punch speed and punching force result from a revitalised hydraulic system with double speed action.
The battery is equipped with LED indicators that indicate the remaining battery life at any time by pressing the adjacent button.
The balanced punching head pivots 180deg through a full 360deg rotation for ease of use in confined spaces.
Fitted with a maximum hydraulic pressure valve.
Designed with improved balance, B-FL750A is easily manageable during the punching process and, by the use of bi-component plastics, has a shell with high resistance to wear and damage.
Rubber grip inserts, low noise and minimal vibration aid operator comfort while additional convenience and safety are provided by LED lighting of the working area.
Operating temperature:
+5 to +122°F

CEMBRE

PUNCHING ACCESSORIES AVAILABLE

for B-FL750NDA and B-FL750A

Round punch

Hole diameter					Material max thickness (in.)		Pilot hole Ø	Type	
Nominal		Pg	ISO	GAS	Stainless Steel	Mild Steel	Ø	KIT	Puller
Ø (mm)	Ø (inch)						(in.)	(Punch + Die)	
15,5	.610	Pg9	-	-	0.1 in. (2,5 mm) Rm= 700 N/mm²	0.14 in. (3,5 mm) Rm= 510 N/mm²	0.45	RD15.5SS	TD-11
16,2	.638	-	ISO-16	-				RD16.2SS	
17,0	.669	-	-	G3/8"				RD17SS	
17,5	.689	-	-	-				RD17.5SS	
18,8	.740	Pg11	-	-				RD18.8SS	
19,1	.752	-	-	-				RD19.1SS	
20,5	.807	Pg 13,5	ISO-20	-				RD20.5SS	
21,5	.846	-	-	G1/2"				RD21.5SS	
22,6	.890	Pg16	-	-				RD22.6SS	
23,8	.937	-	-	G5/8"				RD23.8SS	
25,4	1.000	-	ISO-25	-				RD25.4SS	
27,0	1.063	-	-	G3/4"				RD27SS	
28,5	1.122	Pg21	-	-				RD28.5SS	
30,5	1.201	-	-	G7/8"				RD30.5SS	
28,5	1.122	Pg 21	-	-			0.79	RD28.5SS-19	TD-19
30,5	1.201	-	-	G7/8"				RD30.5SS-19	
31,8	1.252	-	-	-				RD31.8SS	
32,5	1.279	-	ISO-32	-				RD32.5SS	
34,0	1.338	-	-	G1"				RD34SS	
34,6	1.362	-	-	-				RD34.6SS	
37,2	1.464	Pg29	-	-				RD37.2SS	
38,1	1.500	-	-	-				RD38.1SS	
38,5	1.515	-	-	G1"1/8"				RD38.5SS	
40,5	1.594	-	ISO-40	-				RD40.5SS	
41,3	1.626	-	-	-				RD41.3SS	
42,5	1.673	-	-	G1"1/4"				RD42.5SS	
43,2	1.701	-	-	-				RD43.2SS	
44,5	1.752	-	-	-				RD44.5SS	
47,2	1.858	Pg36	-	-				RD47.2SS	
48,5	1.909	-	-	G1"1/2"				RD48.5SS	
50,5	1.988	-	ISO-50	-				RD50.5SS	
51,4	2.023	-	-	-				RD51.4SS	
52,4	2.063	-	-	-				RD52.4SS	
54,2	2.134	Pg42	-	G1"3/4"				RD54.2SS	
60,0	2.362	Pg48	-	G2"				RD60SS	
60,5	2.381	-	-	-				RD60.5SS	
64,0	2.520	-	ISO-63	-				RD64SS	
65,0	2.559	-	-	-				RD65SS	
76,0	2.992	-	-	G2"1/2"		0.12		RD76SS	
76,5	3.011	-	-	-		0.14		RD76.5SS	
80,5	3.169	-	-	-		0.12		RD80.5SS	
89,0	3.503	-	-	G3"		0.14		RD89SS	
90,0	3.543	-	-	-	0.08	0.12		RD90SS	
100,0	3.937	-	-	-	0.08	0.12	1.14	RD100SS	TD-28.5*
102,0	4.015	-	-	-	0.08	0.12		RD102SS	
114,0	4.488	-	-	-	0.08	0.10		RD114SS	
120,0	4.724	-	-	-	0.06	0.08		RD120SS	
140,0	5.512	-	-	-	0.06	0.08		RD140SS	

Stainless Steel = Rm= 700 N/mm² - Mild Steel = Rm= 510 N/mm²

** Puller included in the kit*

Square punch

Hole dimensions		Material max thickness (in.)		Pilot hole Ø	Type
Nominal		Stainless Steel	Mild Steel	Ø	KIT (Punch+die + Puller)
(mm)	(inch)			(in.)	
21,0 x 21,0	.827 x .827	0.10	0.14	0.47	RD21X21
46,0 x 46,0	1.811 x 1.811	0.06	0.08	1.04	RD46X46
68,0 x 68,0	2.677 x 2.677			1.12	RD68X68
92,0 x 92,0	3.622 x 3.622				RD92X92
126,0 x 126,0	4.960 x 4.960				RD126X126
138,0 x 138,0	5.433 x 5.433	0.04	0.06		RD138X138
220,0 x 220,0	8.661 x 8.661				RD220X220
224,0 x 224,0	8.818 x 8.818				RD224X224

Rectangular punch

Hole dimensions		Material max thickness (in.)		Pilot hole Ø	Type
Nominal		Stainless Steel	Mild Steel	Ø	KIT (Punch+die + Puller)
(mm)	(inch)			(in.)	
18,0 x 46,0	.709 x 1.811	0.08	0.08	0.65	RD18X46
22,0 x 30,0	.866 x 1.181				RD22X30
22,0 x 46,0	.866 x 1.811				RD22X46
29,0 x 71,0	1.141 x 2.795				RD29X71
35,0 x 65,0	1.377 x 2.559			1.04	RD35X65
35,0 x 86,0	1.377 x 3.385				RD35X86
35,0 x 112,0	1.377 x 4.409				RD35X112
36,0 x 46,0	1.417 x 1.811				RD36X46
37,0 x 54,0	1.456 x 2.125	0.06			RD37X54
37,0 x 67,0	1.456 x 2.637				RD37X67
37,0 x 88,0	1.456 x 3.464				RD37X88
37,0 x 104,0	1.456 x 4.094				RD37X104
37,0 x 115,0	1.456 x 4.527				RD37X115
46,0 x 54,0	1.811 x 2.126				RD46X54
46,0 x 72,0	1.811 x 2.835				RD46X72
46,0 x 92,0	1.811 x 3.622				RD46X92
46,0 x 107,0	1.811 x 4.212				RD46X107
50,0 x 98,0	1.968 x 3.858				RD50X98
67,0 x 126,0	2.637 x 4.960			1.12	RD67X126
72,0 x 136,0	2.834 x 5.354				RD72X136

Stainless Steel = Rm= 700 N/mm² - Mild Steel = Rm= 510 N/mm²

"D" punch

Hole dimensions		Material max thickness (in.)		Pilot hole Ø	Type
Nominal		Stainless Steel	Mild Steel	Ø	KIT (Punch+die + Puller)
(mm)	(inch)			(in.)	
(a)38,3 x (b)36,6	(a)1.507 x (b)1.442	0.10	0.14	0.73	RD 18D
(a)43,1 x (b)41,5	(a)1.696 x (b)1.632				RD 24D

Stainless Steel = Rm= 700 N/mm² - Mild Steel = Rm= 510 N/mm²

Use of non-Cembre punching accessories

Type	Punch & Die	Pilot hole Ø in.
TRD-9.4C (*)	GREENLEE 3/8" - 24 UNF	Ø 0.40
TRD-M11C (*)	BM, COSMEC (M11x1.5), IMB 9602	Ø 0.45
TD-M16C	BM, COSMEC (M16x1.5)	Ø 0.65
TD-27	BM, COSMEC (Ø105÷Ø140)	Ø 1.10
TD-14X14-M14	BM, COSMEC 46x46	Ø 0.74
TD-120X20-M20	BM, COSMEC 92x92	Ø 1.10
TD-20X20-M20 (with plug)	BM, COSMEC 42x95	Ø 1.10
TGD-13.5X13.5-M13	BM, COSMEC 40x40; 45x45; 46x46 (M13)	Ø 0.74
TGD-10X10-M9	BM, COSMEC 006505	Ø 0.54
TD-9	IMB 9601	Ø 0.37
TD-16	IMB 9603	Ø 0.65
TD-10X10-M10 (with plug)	IMB 9623	Ø 0.57
TD-14X14-M14/1"	IMB 9625	Ø 0.77
TD-20 (without plug)	IMB 9626	Ø 1.10
TD-20X20-M20-C (with plug)	IMB 9626	Ø 1.10

(*) The washer supplied with the KIT must be threaded onto the draw stud and positioned between the head and the die to allow the die to rest correctly

18.0 V CORDLESS HYDRAULIC NUT SPLITTING TOOLS

B-TD270A

general features

11.2 tons · Li-Ion 18.0V · 2 SPEED · BATTERY DISPLAY · PROTECTED · ONE HAND · MAX PRESSURE · RELEASE · SILENT · SMOOTH · ERGONOMIC · BALANCED · BI-COMPONENT · LED LIGHTING · ENERGY SAVE · DURABLE · +5°F +122°F · CE · UKCA

B-TD270

Crimping force tons	*11.2*
Dimensions in.	
Length (with tube and head)	*50.9*
Height	*13.8*
Depth	*3.3*
Battery	*18.0V 5.2Ah*
Weight lbs. (with battery)	*12,1*

18.0 V battery operated hydraulic tool suitable for splitting fastening bushes, hexagonal and square nuts as per RHTD1724.

B-TD410TA

25.8 tons · Li-Ion 18.0V · 2 SPEED · BATTERY DISPLAY · PROTECTED · ONE HAND · MAX PRESSURE · RELEASE · SILENT · SMOOTH · ERGONOMIC · BALANCED · BI-COMPONENT · LED LIGHTING · ENERGY SAVE · DURABLE · +5°F +122°F · CE · UKCA

B-TD410T

Crimping force tons	*25.8*
Dimensions in.	
Length (with tube and head)	*53.5*
Height	*13.8*
Depth	*3.3*
Battery	*18.0V 5.2Ah*
Weight lbs. (with battery)	*19.4*

18.0 V battery operated hydraulic tool suitable for splitting fastening bushes, hexagonal and square nuts as per RHTD410T.

STORAGE

Type	*CVB-030*
Dimensions in. L x W x H	*19.5 x 10.5 x 17.9*
Weight lbs.	*3.0*
Supplied with the tool	✓

Application range

Type	HEXAGONAL NUTS in.	HEXAGONAL NUTS ø	SQUARE NUTS in.	SQUARE NUTS ø
B-TD270A	0.63	M 10	0.67	M 10
	0.67	M 10	0.75	M 12
	0.71	M 12	0.87	M 14
	0.75	M 12	0.94	M 16
	0.83	M 14	1.06	M 18
	0.87	M 14		
	0.94	M 16		
	1.06	M 18	1.06	M 18
B-TD410TA	1.06	M 18	1.06	M 18
	1.18	M 20	1.18	M 20
	1.26	M 22	1.26	M 22
	1.34	M 22	1.34	M 24
	1.42	M 24	1.42	M 27
	1.61	M 27		

CEMBRE

MPC1

PRESSURE TEST DEVICE

for hydraulic pumps and tools

MPC1 device

The MPC1 device, complete with test adapter set, is used to measure the maximum oil pressure on all Cembre tools.

MPC2

MPC2 device

The MPC2 device, complete with test die set, to measure the maximum force developed by Cembre tools:
HT131-C, HT131LN-C, HT120, HT120-KV, RHC131, RHC131-KV, RHC131LN, B131-CA, B131-CA-KV, B131LN-CA, B131LN-CA-KV, B135-CA, B135-CA-KV, B135LN-CA, B135LN-CA-KV.

MPC4

MPC4 device

The MPC4 device, complete with test die set, to measure the maximum force developed by Cembre tools:
ECW-H3D, RHU240-3D-850, RHU300-3D

MPC7

MPC7 device

The MPC7 device, complete with test die set, to measure the maximum force developed by Cembre tools:
HT45, HT51, HT51-KV, HT51L, HT51L-KV, RH50, HT61, RH61, B15Y (use adaptor available separately), B35-45A, B35-50A, B46, B51A, B51A-KV, B51LA, B51LA-KV, B54-Y.., B55-Y.., B55-Y..-KV, B62.

HYDRAULIC PUMPS AND UNITS

PO7000

HYDRAULIC PUMP

foot operated

TECHNICAL FEATURES

Operating pressure psi	*10,000*
Dimensions in.	
Length	*26.8*
width	*7.9*
Height	*6.4*
Weight lbs.	*21.6*

STORAGE

Type	*VAL-P21*
Dimensions in. L x W x H	*32.3 x 16.9 x 11.4*
Weight lbs.	*14.8*
Supplied with the pump	✓

Foot operated double speed pump, developing a maximum pressure of 10,000 psi.
The pump is supplied with 10FT long high pressure flexible hose complete with female self-lock quick coupler.
Pressure can be withdrawn at any time during operation by depressing the release lever.
A solid shaped stand gives the pump stability during operation.

CPP-0

HYDRAULIC PUMP

foot operated

TECHNICAL FEATURES

Operating pressure psi	*10,000*
Dimensions in.	
Length	*12.2*
width	*5.9*
Height	*7.9*
Weight lbs.	*15.0*

The CPP-0 air hydraulic power unit intensifies an air supply of 87-115 psi (6÷8 bar) to a power crimping or cutting force of up to 10,000 psi (700 bar) depending upon the input pressure.
The control pedal allows for advancing and pressure release at any stage of the operation.
The unit is provided with a 6.5 FT high pressure flexible hose, including a 3/8" NPT female self-lock quick coupler.

HYDRAULIC PUMP

powered by single-phase electric motor

CPE-1
CPE-1-110

TECHNICAL FEATURES

Operating pressure psi	*10,000*
Dimensions in.	
Length	*14.6*
width	*8.8*
Height	*18.8*
Weight lbs.	*46.2*

2 SPEED · 10,000 psi · MAX PRESSURE · MANUAL RELEASE · DURABLE · CE · UKCA

The pump is supplied with:
- high pressure flexible hose with male and female automatic quick coupler
- remote hand controller
- external supply connection cable

Technical details:
- Oil in the reservoir: 0.52 gallons
- Power of motor: 1,050 W
- Delivery of oil: 0.21 Gpm at no load

Electrically driven hydraulic pump, powered by a 110-115V / 50-60Hz single-phase electrical motor.
The remote hand controller allows advancement and pressure release on completion of the crimping operation.
The mechanically actuated emergency button located on the pump body, allows the pressure release at any time also in case of power shortage.
This model is IP 55 rated.

Available as optional accessories:
- Remote foot controller RCP-B70.
- Transportation trolley CS-CPE-1
- Control handle integrated with 3 m length flex hoses ERCH-WH

ERCH-WH

RCP-B70

CS-CPE-1

CEMBRE

B1300PLA

PORTABLE ELECTRO-HYDRAULIC PUMP

battery operated

TECHNICAL FEATURES

Operating pressure psi	*10,000*
Dimensions in.	
Length	*13.9*
width	*4.0*
Height	*9.4*
Battery	*18.0V 5.2Ah*
Weight lbs. (with Battery)	*8.8*

STORAGE

Type	*VAL-P51*
Dimensions in. L x W x H	*27.2 x 17.5 x 7.0*
Weight lbs.	*12.1*
Supplied with the pump	✓

The B1300PL pump is supplied with:

- 35.4 in. flexible hose complete with male + female 3/8" NPT self-lock quick couplers.
- 18.0 V - 5.2 Ah Li-Ion high power battery
- AC charger (110-115V)
- Shoulder strap
- Plastic carrying case suitable for storing the tool and accessories, type VALP51

New portable electro-hydraulic pump B1300PLA is battery operated for independent use.
Having the inherent strengths of the Cembre 18V tool range the B1300PLA is a compact, lightweight pump suitable for a wide range of applications.
New Li-Ion 18V - 5.2Ah batteries offer a high capacity, while improved operating speed results from a revitalised hydraulic system with double speed action.
A security valve assures operator safety.

Designed with improved handling characteristics, B1300PLA is easily manageable during the operating process and, by the use of bi-component plastics, has a shell with high resistance to wear and damage.
Rubber grip inserts, low noise and minimal vibration aid operator comfort while additional convenience and safety are provided by LED lighting of the working area.
Pressure can be released at any time using the appropriate button.

APPLICATION RANGE

Crimping	Cutting	Punching
up to 12 tons heads	up to TC050	RH-FL75 RH-FC48N

PORTABLE ELECTRO-HYDRAULIC PUMP

B68M-P18A

battery operated

TECHNICAL FEATURES

Operating pressure psi	*10,000*
Dimensions in.	
Length	*14.1*
width	*7.2*
Height	*9.2*
Battery	*18.0V 5.2Ah*
Weight lbs. (with Battery)	*12.0*

STORAGE

Type	*CVB-031*
Dimensions in. L x W x H	*24.4 x 11.8 x 12.6*
Weight lbs.	*5.3*
Supplied with the pump	✓

The B68M-P18A pump is supplied with:

- Remote control provides LED working lights and an OLED display
- 6.5 FT flexible hose complete with rotatable Q14-F quick coupler on the pump and female 3/8" NPT self-lock quick couplers
- 18.0 V - 5.2 Ah Li-Ion high power battery (2 pcs.)
- Canvas bag suitable for storing the tool and accessories
- AC charger (110-115V)
- Shoulder strap

New portable electro-hydraulic pump B68M-P18A is battery operated for independent use.
Having the inherent strengths of the Cembre 18V tool range, the B68M-P18A is a lightweight high capacity pump equipped with an innovative remote control suitable for a wide range of applications.
New Li-Ion 18V - 5.2Ah batteries offer a high capacity, while improved operating speed results from a revitalised hydraulic system with double speed action.
A maximum pressure sensor assures greater precision and repeatability of the pressure cycle, while a security valve doubles the provision for operator safety.
The unit has a manual pressure release button in case of emergency. Easy access to the oil reservoir is by means of an oil top-up inlet.

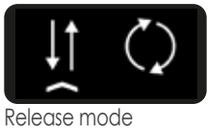
APPLICATION RANGE

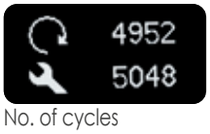
Crimping	Cutting	Punching
up to 25 tons heads	up to TC120	RH-FL75 RH-FC48N

Example of operating information on OLED display:

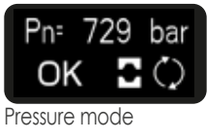
Operating mode

Battery level

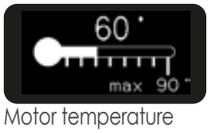

Release mode



No. of cycles



Pressure mode



Motor temperature

The innovative remote control provides LED working lights and an OLED display of essential real time tool operating information including:

- Operating mode selection
- Release mode selection: Smart release, manual release
- Minimum set pressure and momentary pressure reached expressed in bar allows verification of correct operation
- Battery charge level
- No. of cycles performed
- No. of cycles before scheduled recommended maintenance
- Motor temperature

Designed with improved handling characteristics, B68M-P18A is easily manageable during the operating process and has a fibreglass-plastic shell with high resistance to wear and damage.
The pump features a rubber pocket to store and protect the remote control.
Low noise levels aid operator comfort while additional convenience and safety are provided by LED lighting on the remote control.
Selecting the SMART release mode on the OLED display allows the operating pressure to be maintained until the operating button is released, thus allowing the operator to make a visual check of, say, the crimped connection.
Releasing the button then automatically releases the pressure.
Crimping cycle data (up to 200,000 events) is automatically stored on a memory card for transfer to PC by USB interface located under the battery.

CEMBRE

PORTABLE ELECTRO-HYDRAULIC PUMPS B70M-P36A RANGE

battery operated

Easily accessible oil top-up inlet

Toggle button for direct operation via the pump

EN 60529

Remote electrical hand or foot controller connection

High pressure hose connects to automatic self-lock quick coupling with protective cap

Automatic battery connection system

OLED multifunctional display

Smart Logo

Manual pressure release button

New generation pump B70M-P36A is powered by an all new 36.0V 6.2Ah Li-Ion high capacity rechargeable battery providing independence and portability.
Fitted with a electronic pressure sensor (EPS) for enhanced precision and repeatability of the maximum pressure cycle, and a pressure relief valve providing additional safety for the operator. These units feature the Smart Release system which automatically retracts the ram at the end of the operating cycle.
The manual toggle button can be used to operate and release the pressure directly from the pump (disabled when the remote control is used for safety reasons). Oil top-up inlet for easy access to the oil reservoir. Extremely compact and suitable for a wide range range of applications.
The Cembre logo acts as an indicator by changing color to provide the operator with instantaneous visual confirmation of the pumps status, such as; pump ready, pump in use, end of cycle, cycle error, anomaly, maintenance required.
The new ergonomic design allows the pump to be handled easily during use.

The rigid structure of the plastic body ensures adequate mechanical protection and sealing gaskets guarantees IP44M protection.
The ergonomically designed handle helps to increase operator comfort when moving the pump.
Quieter operation, and the absence of vibrations ensure maximum operator comfort. Equipped with a 10 ft. long high pressure hose complete with a male quick coupling on the pump and a self-locking female quick coupling. The pressure can be released at any time using the pressure release button. The unit features an OLED display to provide essential real time tool operating information including:

- Operating mode selection (cutting, crimping or piercing)
- Release mode selection (Smart release, manual release)
- Minimum set pressure and snapshot pressure reached in bar/psi to allow verification of correct operation
- Battery charge level
- No. of cycles performed
- No. of cycles before scheduled recommended maintenance
- Motor temperature
- Operational command (hand controller or manual on the pump)

Can be used in vertical or horizontal position

PORTABLE ELECTRO-HYDRAULIC PUMP

B70M-P36A

battery operated

B70M-P36A

1. Portable electro-hydraulic pump, 36V dc battery for independent use, developing 10,000 psi pressure
2. CB3662L Battery 36 V - 6.2 Ah Li-Ion
3. ASC145-USA/CA External battery charger
4. USB cable
5. Shoulder strap
6. CVB-037 Canvas rucksack for carrying accessories
7. 10 ft. flexible hose complete with male + female 3/8" NPT self-lock quick couplers
8. ERCH Remote control

TECHNICAL FEATURES

Operating pressure psi	*10,000*
Dimensions in.	
Length	*15.9*
width	*6.3*
Height	*12.9*
Battery	*36V 6.2Ah*
Weight lbs. (with Battery)	*22.0**

**without accessories*

PORTABLE ELECTRO-HYDRAULIC PUMP

B70M-P36A-CH

battery operated

B70M-P36A-CH

1. Portable electro-hydraulic pump, 36V dc battery for independent use, developing 10,000 psi pressure
2. CB3662L Battery 36 V - 6.2 Ah Li-Ion
3. ASC145-USA/CA External battery charger
4. USB cable
5. Shoulder strap
6. CVB-037 Canvas rucksack for carrying accessories
9. ERCH-WH Remote hand controller integrated with 10 ft. length flexible hose complete with male + female 3/8" NPT self-lock quick couplers

TECHNICAL FEATURES

Operating pressure psi	*10,000*
Dimensions in.	
Length	*15.9*
width	*6.3*
Height	*12.9*
Battery	*36V 6.2Ah*
Weight lbs. (with Battery)	*22.0**

**without accessories*

Variously supplied with different versions:

CEMBRE

ACCESSORIES FOR B70M-P36A

purchase separately

ERCH-WH
Remote hand controller integrated with 10 ft. length flexible hose

TRS-B70
Canvas rucksack (for carrying the pump)

SH-B70
Hook for hanging the pump from a ladder

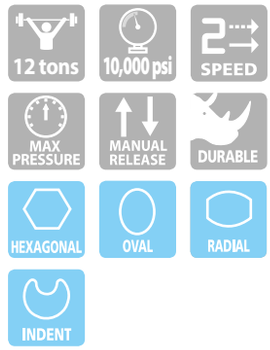
VAL-P18
Durable transport case for pump and accessories.

RCP-B70
Portable remote foot control

HYDRAULIC UNIT

CP1131

pump PO7000 + head RHC131



MAIN APPLICATIONS - max section AWG

Section AWG	22÷16	16÷14	12÷10	8	6	4	2	1/0	2/0	3/0	250 MCM	300 MCM	350 MCM	400 MCM	500 MCM	600 MCM	800 MCM	1000 MCM	1250 MCM	1500 MCM	2000 MCM
Copper lugs				■	■	■	■	■	■	■	■	■	■	■							
Copper splices				■	■	■	■	■	■	■	■	■	■	■							
"C" sleeve Connectors				■	■	■	■	■	■	■	■	■	■								

These tools are supplied without dies. For die selection, please refer to chart on pages 286 to 300

TECHNICAL FEATURES

Crimping force tons	*12*
Dimensions in.	
Dimensions pump L x W x H	*26.8 x 7.9 x 6.4*
Dimensions head L x H	*9.13 x 4.88*
Weight unit kg	*30.0*

STORAGE

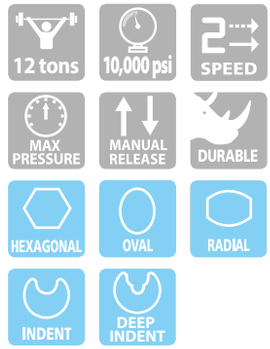
Type	*VAL-P21**
Dimensions in. L x W x H	*32.3 x 16.9 x 11.4*
Weight lbs.	*14.8*
Supplied with the unit	✓

**Supplied with the unit, suitable for storage of 24 semi-circular slotted dies*

HYDRAULIC UNIT

CPU1131-C

pump PO7000 + head RHU131-C



MAIN APPLICATIONS - max section AWG

Section AWG	22÷16	16÷14	12÷10	8	6	4	2	1/0	2/0	3/0	250 MCM	300 MCM	350 MCM	400 MCM	500 MCM	600 MCM	800 MCM	1000 MCM	1250 MCM	1500 MCM	2000 MCM
Copper lugs and splices				■	■	■	■	■	■	■	■	■	■	■	■	■					
Aluminum lugs and splices				■	■	■	■	■	■	■	■	■	■	■	■	■					
"C" sleeve Connectors				■	■	■	■	■	■	■	■	■	■								

These tools are supplied without dies. For die selection, please refer to chart on pages 286 to 300

TECHNICAL FEATURES

Crimping force tons	*12*
Dimensions in.	
Dimensions pump L x W x H	*26.8 x 7.9 x 6.4*
Dimensions head L x H	*9.65 x 3.5*
Weight unit kg	*29.7*

STORAGE

Type	*VAL-P21**
Dimensions in. L x W x H	*32.3 x 16.9 x 11.4*
Weight lbs.	*14.8*
Supplied with the unit	✓

**Supplied with the unit, suitable for storage of 24 semi-circular slotted dies and accessories for crimping Aluminium connectors*

CEMBRE

CPU1230-3D

HYDRAULIC UNIT

pump PO7000 + head ECW-H3D

25 tons | 10,000 psi | 2 SPEED | MAX PRESSURE | MANUAL RELEASE | DURABLE | HEXAGONAL | OVAL | RADIAL | INDENT

MAIN APPLICATIONS - max section AWG

Section AWG	22÷16	16÷14	12÷10	8	6	4	2	1/0	2/0	3/0	250 MCM	300 MCM	350 MCM	400 MCM	500 MCM	600 MCM	800 MCM	1000 MCM	1250 MCM	1500 MCM	2000 MCM
L.V. lugs and splices				■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■		
Insulated terminals				■	■	■	■	■	■	■	■	■	■	■	■	■					
"C" sleeve Connectors				■	■	■	■	■	■	■	■	■	■	■	■						
H.V. lugs and splices						■	■	■	■	■	■	■	■	■	■	■	■	■	■		

These tools are supplied without dies. For die selection, please refer to chart on pages 286 to 300

TECHNICAL FEATURES

Crimping force tons	*25*
Dimensions in.	
Dimensions pump L x W x H	*26.8 x 7.9 x 6.4*
Dimensions head L x H	*12.4 x 4.7*
Weight unit kg	*33.7*

STORAGE

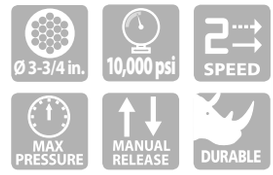
Type	*VAL-P21**
Dimensions in. L x W x H	*32.3 x 16.9 x 11.4*
Weight lbs.	*14.8*
Supplied with the unit	✓

**Supplied with the unit, suitable for storage of 24 semi-circular slotted dies and adaptors and dies specific for head ECW-H3D*

HYDRAULIC CUTTING UNIT

CP1096

pump PO7000 + head TC096



TECHNICAL FEATURES

Max cutting Ø in.	up to 3-3/4
Dimensions in.	
Dimensions pump L x W x H	26.8 x 7.9 x 6.4
Dimensions head L x H	15.6 x 9.8
Weight unit kg	39.0

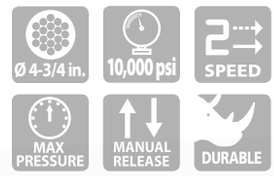
STORAGE

Type	VAL-CP096
Dimensions in. L x W x H	30.9 x 16.9 x 6.9
Weight lbs.	22.0
Supplied with the unit	✓

HYDRAULIC CUTTING UNIT

CP1120

pump PO7000 + head TC120



TECHNICAL FEATURES

Max cutting Ø in.	up to 4-3/4
Dimensions in.	
Dimensions pump L x W x H	26.8 x 7.9 x 6.4
Dimensions head L x H	21.1 x 6.9
Weight unit kg	42.5

STORAGE

Type	VAL-22-TC120
Dimensions in. L x W x H	30.1 x 12.0 x 7.5
Weight lbs.	18.3
Supplied with the unit	✓

CEMBRE

CB BH ASC CFC BPS

Accessories for cordless tools

CB1820L

CB1852L
CB1880L

CB3662L

CB1430L

CB1430H

CB9630H

BH2433

battery

	Type	Description	Technology	Ah	V
STANDARD	CB1820L	CB1820L 18V-2.0Ah battery	Li-Ion	2.0	18
	CB1852L	CB1852L 18V-5.2Ah battery	Li-Ion	5.2	18
	CB1880L	CB1880L 18V-8.0Ah battery	Li-Ion	8.0	18
	CB3662L	CB3662L 36V-6.2Ah battery	Li-Ion	6.2	36
ON REQUEST	CB1430L	CB1430L 14.4V-3.0Ah battery	Li-Ion	3.0	14.4
	CB9630H	CB9630H 9.6V-3.0Ah battery	Ni-MH	3.0	9.6
	CB1430H	CB1430H 14.4V-3.0Ah battery	Ni-MH	3.0	14.4
	BH2433	BH2433 24V-3.3Ah battery	Ni-MH	3.3	24

ASC30-36-USA/CA

ASC145-USA/CA

ASC145DUO-USA/CA

ASC55-MULTI8-US

battery charger

CFC230N

Type	Description	V
ASC30-36-USA/CA	ASC30-36-USA/CA battery charger 115V	18
ASC145-USA/CA	ASC145-USA/CA battery charger 110V	10.8 - 36
ASC145DUO-USA/CA	ASC145DUO-USA/CA battery charger 115V	12 - 36
ASC55-MULTI8-US	8-position multiple charger ASC55-MULTI8-US 110V	12 - 36
CFC230N	CFC230N 230V AC battery charger	14.4

BPS230-9.6

BPS230.14

power supplies

Type	Description	V
BPS230-9.6	BPS230.96 (230V -9.6V) power supplies	9.6
BPS230.14	BPS230.14 (230V -14.4V) power supplies	14.4

6000354

6006309

others

Type	Description
6000354	Shoulder strap for battery tools
6006309	USB2.0/MINI USB B M-M 1.8 m cable black

Accessories for storage of dies

VAL

carring case - bags

Type	Description
VALMAT	Metal carrying case suitable for the storage of semicircular dies
VALMAT-230-630	Metal carrying case suitable for the storage of accessories for crimping Aluminium connectors
VALMAT-520	Metal carrying case suitable for storage of 10 sets of hexagonal dies for the head RHU520
VAL-130	Metal carrying case suitable for the storage of accessories for crimping Aluminium connectors
VAL-75	Plastic case suitable for containing tool dies for HT81-U; RHU81; RH50; RHM50
CVB-013	Canvas bag

Transport accessories

CVB

canvas bag - trolley

Type	Description
CVB-030	Canvas bag for carrying tools and accessories
CVB-031	Canvas bag for the transport of pump and accessories
CVB-037	Canvas rucksack for transporting pump and accessories
VAL-P18	Wheeled transport case for pump and accessories

CEMBRE

TF

Accessories for non-insulated hydraulic pumps

TF..-..

ERCH-WH

non-insulated flexible hoses (extensions)

Type	Length ft	Quick Coupler	Description
TF300-Q38FM	9.8	F/M	High pressure flexible hose fitted with automatic quick couplers
TF600-Q38FM	19.7	F/M	High pressure flexible hose fitted with automatic quick couplers
TF200-Q14FM	6.6	F/M	High pressure flexible hose fitted with automatic quick couplers
TF500-Q38FM	16.4	F/M	High pressure flexible hose fitted with automatic quick couplers
TF1000-Q38FM	32.8	F/M	High pressure flexible hose fitted with automatic quick couplers
ERCH-WH	9.8	F/M	Remote hand controller integrated with high pressure flexible hose complete with automatic quick couplers for B70M-P36A; CPE-1

Q-M, Q-F

Quick couplers for non-insulated flexible hoses

Q14-MS

Q14-MS
Male automatic coupler for hydraulic heads (1/4" NPT).

Q38-F

Q38-F
Female automatic coupler with safety ring for hydraulic pumps and flexible hoses (3/8" NPT).

Q38-MS

Q38-MS
Male automatic coupler for flexible hoses (3/8" NPT).

TF-I

Accessories for insulated hydraulic pumps

TF..-I..

insulated flexible hoses (extensions)

Type	Length ft	Insulated Quick Coupler	Description
TF1000-I38FM-KVE	32.8	F/M	32.8 ft long high pressure flexible hose equipped with insulated oil with high dielectric power and with "insulated" type quick couplers with automatic locking, complete with case
TF500-I38FM-KV	16.4	F/M	16.4 ft long high pressure flexible hose equipped with insulated oil with high dielectric power and with "insulated" type quick couplers with automatic locking

RB-M
RB-F

Quick couplers for insulated flexible hoses

RB38-M

RB38-M
Screw type male (Ball Type) quick coupler 3/8"

RB38-F

RB38-F
Screw type female (Ball Type) quick coupler 3/8"

DIE SELECTOR CHART

COPPER CONDUCTORS

APPLICATION	CONDUCTOR		CONNECTOR			HYDRAULIC TOOLS								
						B15MA	HT51 RH50 B500A B500NDA B550CA		B1300L-CA and similar tools for U dies		B1500A	ECW-H3D	RHU520
	Conductor Size		TERMINAL		SPLICE	DIE SET		DIE SET		DIE SET	DIE SET	DIE SET	DIE SET
	AWG	Navy											
C..-..	8	23	C8-..	CL8-..	BSCL8	ME03/2-15 (1) ME2/3-15 (1) MA03/3-15		MY2-50 (1)		MY2-C (1)	Adaptador **AU150-C** con matriz **MY..-C**	Adaptador **AU230-130D** con matriz **MY..-C**	Adaptador **AU520-130C** con matriz **MY..-C**
	6		C6-..	CL6-..	BSCL6	ME2/3-15 (1) MA03/3-15		MY3-50 (1)		MY3-C (1)			
	4	40	C4-..	CL4-..	BSCL4			MY4-50 (1)		MY4-C (1)			
CL..-..	3	50	C3-..	CL3-..	BSCL3			MY5-50 (1)		MY5-C (1)			
	2	60	C2-..	CL2-..	BSCL2			MY6-50 (1)		MY6-C (1)			
	1	75	C1-..	CL1-..	BSCL1			MY7-50 (1)		MY7-C (1)			
	1/0	100	C1/0..	CL1/0..	BSCL1/0			MY10-50 (2)		MY10-C (1)			
CL..-..	2/0	125	C2/0..	CL2/0..	BSCL2/0			MY14-50 (2)		MY14-C (1)			
	3/0	150	C3/0..	CL3/0..	BSCL3/0			MY16-50 (2)		MY16-C (1)			
	4/0	200	C4/0..	CL4/0..	BSCL4/0			MY19-50 (2)		MY19-C (1)			
	250 MCM	250	C250-..	CL250-..	BSCL250			MY24-50 (2)		MY24-C (1)			
BSCL..	300 MCM	300	C300-..	CL300-..	BSCL300			MY30-50 (2)		MY30-C (1)			
	350 MCM	350	C350-..	CL350-..	BSCL350			MY36-50 (2)		MY36-C (1)			
	400 MCM	400	C400-..	CL400-..	BSCL400			MY37-50 (2)		MY37-C (1)			
	500 MCM		C500-..	CL500-..	BSCL500			MY48-50 (3)		MY48-C (2)			
	600 MCM		C600-..	CL600-..	BSCL600					MY60-C (2)			
	750 MCM		C750-..	CL750-..	BSCL750					MY76-C (2)			

◯ = Circular crimp ◡ = Indent crimp ⬡ = Hexagonal crimp

N.B.: Number inside symbol indicates the number of crimps for C short barrel lugs only.

TAP-OFF ON COPPER CONDUCTOR

APPLICATION	CONDUCTOR		CONNECTOR			HT45-E B450ND-BVA	HT51 RH50 B500A B500NDA B550CA	HT 81-U RHU 81	B1300L-CA and similar tools for U dies	B1500A	ECW-H3D	RHU520
	Conductor Size sqmm		CONNECTOR	CONNECTOR		DIE SET	DIE SET	DIE SET	DIE SET	DIE SET	DIE SET	DIE SET
	Run	Tap										
C..-C..ST	#9 ÷ #13	#9 ÷ #15	C6-C6ST	C6-C6		MC6 (1)	MC6-50 (1)	MC6.25-U (1)				
	#7	#7 ÷ #15	C10-C10ST	C10-C10		MC10 (1)	MC10-50 (1)	MC10-U (1)	MC10-C (1)	Adaptador AU150-C con matriz MC..-C	Adaptor AU230-130D with die set MC..-C	Adaptor AU520-130C with die set MC..-C
	#5	#5 ÷ #15	C16-C16ST	C16-C16		MC25 (2)	MC25-50 (2)	MC6.25-U MC25-U (1)	MC25-C (1)			
	#3 ÷ #5	#7 ÷ #15	C25-C10ST	C25-C10								
	#3	#3 ÷ #5	C25-C25ST	C25-C25								
	#1 ÷ #2	#5 ÷ #15	C35-C16ST	C35-C16		MC35 (2)	MC35-50 (2)	MC35-U (1)	MC35-C (1)			
	#1 ÷ #2	#1 ÷ #3	C35-C35ST	C35-C35								
	1/0	#3 ÷ #7										
	2/0	#3 ÷ #15	C70-C25NST	C70-C25N								
	1/0	#3 ÷ #11	C50-C25ST	C50-C25			*MC70-50 (3)	MC70-80-U (3)	MC70-C (3)		MC70-3D (1)	
	*1/0	1/0 ÷ #2	C50-C50ST	C50-C50								
	*2/0÷1/0	#1	C70-C35ST	C70-C35								
C..-C..	*2/0÷1/0	2/0 ÷ #11	C70-C70ST	C70-C70								
	4/0	#1	C95-C35ST	C95-C35				MC95-80-U (3)	MC95-C (3)		MC95-3D (1)	
	4/0	2/0	C95-C70ST	C95-C70								
	4/0	4/0	C95-C95ST	C95-C95								
	250 ÷ 4/0	250 ÷ #3	C120-C120ST	C120-C120					MC185-C (3)		MC185-3D (1)	
	300 MCM	250 ÷ #3	C150-C120ST	C150-C120								
	250 MCM	250 MCM										
	300 MCM	300 MCM	C150-C150ST	C150-C150								
	250 MCM	250 MCM										
	350 MCM	4/0 ÷ #5	C185-C95ST	C185-C95								
	350÷250 MCM	350÷250 MCM	C185-C185ST	C185-C185							MC240-3D (1)	
	500 ÷300	250 ÷ 2/0	C240-C120ST	C240-C120								

(1) = oval crimp

** When using die set type MC70-50, the conductors marked with a star must be annealed.*

DIE SELECTOR CHART

APPLICATION	CONDUCTOR	CONNECTOR					HYDRAULIC TOOLS			
							B15MA	HT45-E B450ND-BVA		
	Conductor Size AWG	TERMINAL				SPLICE	DIE SET	NEST	INDENTOR	DIE SET
COPPER CONDUCTORS										
A..-M..	22 ÷ 14	A03-M.. A06-M..				L03-M / L03-P L06-M / L06-P	ME03/2-15 ⬡1 MA03/3-15 ⌓			
	12 ÷ 10	A1-M.. A1-L..				L1-M L1-P	ME03/2-15 ⬡1 MA03/3-15 ⌓	MA1 ⌓	PA 1	ME1 ⬡1
A..-2M..	8	A2-M.. A2-L.. A2-P12 A2-U..	A2-2M..			L2-M L2-P	ME03/2-15 ⬡1 ME2/3-15 ⬡1 MA03/3-15 ⌓	MA2.3 ⌓	PA 5	ME2 ⬡1
A..-L..	6	A3-M.. A3-L.. A3-P14 A3-P22R A3-U..	A3-2M..	2A3-M..		L3-M L3-P	ME2/3-15 ⬡1 MA03/3-15 ⌓			ME3 ⬡1
A..-P..	4	A5-M.. A5-L.. A5-P16 A5-P22R	A5-2M..	2A5-M..		L5-M L5-P		MA5 ⌓		ME5 ⬡1
A..-PR..	2	A7-M.. A7-L.. A7-P20	A7-2M..	2A7-M..		L7-M L7-P		MA7 ⌓	PA 10	ME7 ⬡1
	2-1/0	A10-M.. A10-L.. A10-P25	A10-2M..	2A10-M..	2A10-2M..	L10-M L10-P		MA10 ⌓		ME10 ⬡2
A..-U..	1/0-2/0	A14-M.. A14-L..	A14-2M..	2A14-M..	2A14-2M..	L14-M L14-P				ME14 ⬡2
		A14-P30								ME17 ⬡2
2A..-M..	2/0-3/0	A19-M.. A19-L..	A19-2M..	2A19-M..	2A19-2M..	L19-M L19-P				ME19 ⬡2
	3/0-250	A24-M.. A24-L..	A24-2M..	2A24-M..	2A24-2M..	L24-M L24-P				ME24 ⬡2
2A..-2M..	250-300 MCM	A30-M.. A30-L..	A30-2M..	2A30-M..	2A30-2M..	L30-M L30-P				ME30 ⬡3
	300-350 MCM	A37-M.. A37-L.. A37-4ESI	A37-2M..	2A37-M..	2A37-2M..	L37-M L37-P				
L..-M..	350-500 MCM	A48-M.. A48-L.. A48-4ESI	A48-2M..	2A48-M..	2A48-2M..	L48-M ▲ L48-P ▲				
	500-600 MCM	A60-M.. A60-L.. A60-4ESI	A60-2M..	2A60-M..	2A60-2M..	L60-M ▲ L60-P ▲				
L..-P..	800 MCM	A80-M.. A80-4ESI	A80-2M..	2A80-M..	2A80-2M..	L80-M ▲				
	1000 MCM	A100-M.. A100-4ESI	A100-2M..	2A100-M..	2A100-2M..	L100-M				
A..-4ESI	1250 MCM	A120-M.. A120-4ESI	A120-2M..	2A120-M..	2A120-2M..	L120-M				
	1500 MCM	A160-M.. A160-4ESI	A160-2M..	2A160-M..	2A160-2M..	L160-M				
	2000 MCM	A200-M..		2A200-M..	2A200-2M..	L200-M				
EXTRA FLEXIBLE COPPER CONDUCTORS										
A..-M..	2	A9-M..						MA9 ⌓	PA10	ME9 ⬡1
	1/0	A12-M..								ME12 ⬡2
	2/0	A17-M..								ME17 ⬡2
	3/0	A20-M..								ME20 ⬡2
	250 MCM	A29-M..								ME29 ⬡3
	300 MCM	A35-M..								
	350 MCM	A40-M..								

⬡ = *Hexagonal crimp (use one size up with fine stranded conductors, E.G.: 3/0 fine stranded use A19-.. + ME 19 or A 20-.. + ME 20)*

⌓ = *Indent crimp* ▲ *To be crimped with RHC131L, HT131L-C, B131L-CA, RHU131-C, HT131-UC and B131-UCA only*

DIE SELECTOR CHART

HYDRAULIC TOOLS																	
HT51 RH50 B500A B500NDA B550CA			HT 81-U RHU 81		B1300L-CA and similar tools for U dies			B1500A	ECW-H3D			RHU 520		
NEST	INDEN-TOR	DIE SET	NEST E INDENTOR	DIE SET	NEST	INDEN-TOR	DIE SET		NEST	INDENTOR	DIE SET	NEST	INDENTOR	DIE SET
MA1-50 (1)	PA 1-50	ME1-50 (1)												
MA2.3-50 (1)	PA 5-50	ME2-50 (1)	MA3.5-U (1)	ME2.19-U (1)	MA2-C (1)	PA 10-C	ME2-C (1)	Adaptor **AU150-C** with die set **ME..-C**	Adaptor **AU230-130D** with die set **MA..-C** and indentor **PA..-C**		Adaptor **AU230-130D** with die set **ME..-C**	Adaptor **AU520-130C** with die set **MA..-C** and indentor **PA..-C**		Adaptor **AU 520-130 C** with die set **ME..-C**
		ME3-50 (1)		ME3.14-U (1)	MA3-C (1)		ME3-C (1)							
MA5-50 (1)		ME5-50 (1)		ME5.7-U (1)	MA5-C (1)		ME5-C (1)							
MA7-50 (1)	PA 10-50	ME7-50 (1)	MA7.14-U (1)		MA7-C (1)		ME7-C (1)							
MA10-50 (1)		ME10-50 (2)	MA10.19-U (1)	ME10.24-U (2)	MA10-C (1)		ME10-C (1)							
MA14-50 (1)	PA 19-50	ME14-50 (2)	MA7.14-U (1)	ME3.14-U (2)	MA14-C (1)	PA 24-C	ME14-C (1)							
		ME17-50 (2)					ME17-C (1)							
MA19-50 (1)		ME19-50 (2)	MA10.19-U MA19-U (1)	ME2.19-U (2)	MA19-C (1)		ME19-C (1)							
MA24-50 (1)	PA 24-50	ME24-50 (2)	MA24-U (1)	ME10.24-U (2)	MA24-C (1)		ME24-C (1)							
		ME30-50 (3)	MA30.80-U (1)	ME30-U (2)	MA30-C (1)	PA 48-C	ME30-C (1)							
		ME37-50 (3)	MA37-U (2)	ME37-U (2)	MA37-C (1)		ME37-C (1)							
		ME48-50 (3)	MA48-U (3)	ME48-U (3)	MA48-C (1)		ME48-C (2)							
		ME60-50* (4)			MA60-C (1)	PA 60-C	ME60-C (3)							
							ME80-C (3)		MA80-3D (1)	PA100-3D	ME80-3D (2)	MA80-520 (1)	PA120-520	ME80-520 (2)
									MA100-3D (2)		ME100-3D (2)	MA100-520 (1)		ME100-520 (2)
									MA120-3D (1)	PA120-3D	ME120-3D (2)	MA120-520 (1)		ME120-520 (2)
												MA160-520 (1)	PA200-520	ME160-520 (2)
												MA200-520 (1)		ME200-520 (2)
MA9-50 (1)	PA 10-50	ME9-50 (1)	MA9.17-U (1)	ME9.20-U (1)	MA9-C (1)	PA10-C	ME9-C (1)	Adaptor **AU150-C** with die set **ME..-C**	Adaptor **AU 230-130 D** with die set **MA..-C** and indentor **PA..-C**		Adaptor **AU 230-130 D** with die set **ME..-C**	Adaptor **AU520-130C** with die set **MA..-C** and indentor **PA..-C**		Adaptor **AU 520-130 C** with die set **ME..-C**
MA12-50 (1)	PA 19-50	ME12-50 (2)	MA12.20-U (1)	ME12.17-U (2)	MA12-C (1)	PA24-C	ME12-C (1)							
MA17-50 (1)		ME17-50 (2)	MA9.17-U (1)	ME12.17-U (2)	MA17-C (1)		ME17-C (1)							
MA20-50 (1)		ME20-50 (2)	MA12.20-U (1)	ME9.20-U (2)	MA20-C (1)		ME20-C (1)							
		ME29-50 (3)	MA29.80-U (1)	ME29-U (2)	MA29-C (1)	PA48-C	ME29-C (1)							
		ME35-50 (3)	MA35-U (2)	ME35-U (2)	MA35-C (1)		ME35-C (1)							
		ME40-50 (3)	MA40-U (2)	ME40-U (3)	MA40-C (1)		ME40-C (1)							

N.B.: Number inside symbol indicates the number of crimps on A-M barrel

** Only for B500A, B500NDA and RH50.*

DIE SELECTOR CHART

COPPER CONDUCTORS

T..-M..

L..-T

T..-L..

APPLICATION	CONDUCTOR	CONNECTOR		HYDRAULIC TOOLS						
				B15MD	HT45-E B450ND-BVA			HT51 RH50 B500A B500NDA		
	Conductor Size AWG	TERMINAL	SPLICE	DIE SET	NEST	INDENTOR	DIE SET	NEST	INDEN-TOR	DIE SET
	12 ÷ 10	T6-M.. T6-L..	L6-T..	MS4/10-15 (1)	MA1	PA1	MS6 (1)	MA1-50	PA1-50	MS6-50 (1)
	8	T10-M.. T10-L..	L10-T..	MS4/10-15 MS10/16-15 (1)	MA2.3	PA5	MS10 (1)	MA2.3-50	PA5-50	MS10-50 (1)
	6	T16-M.. T16-L..	L16-T..	MS10/16-15 (1)			MS16 (1)			MS16-50 (1)
	4	T25-M.. T25-L..	L25-T..		MA5		MS25 (1)	MA5-50		MS25-50 (1)
	2	T35-M.. T35-L..	L35-T..		MA7	PA10	MS35 (2)	MA7-50	PA10-50	MS35-50 (2)
	1/0	T50-M.. T50-L..	L50-T..		MA10		MS50 (2)	MA10-50		MS50-50 (2)
	2/0	T70-M.. T70-L..	L70-T..				MS70 (2)	MA14-50	PA19-50	MS70-50 (2)
	3/0	T95-M.. T95-L..	L95-T..				MS95 (2)	MA19-50		MS95-50 (2)
	250 MCM	T120-M.. T120-L..	L120-T..				MS120 (2)	MA24-50	PA24-50	MS120-50 (2)
	300 MCM	T150-M.. T150-L..	L150-T..				MS150 (3)			MS150-50 (3)
	350 MCM	T185-M..	L185-T..							MS185-50 (3)
	500 MCM	T240-M..	L240-T..							MS240-50 (4)
	600 MCM	T300-M..	L300-T..							MS300-50* (5)
	800 MCM	T400-M..	L400-T..							

= Indent crimp = Hexagonal crimp

* Only for B500A, B500NDA and RH50

DIE SELECTOR CHART

	HT81-U RHU81		B1300L-CA and similar tools for U dies			B1500A	ECW-H3D			RHU520		
	NEST	DIE SET	NEST	INDENTOR	DIE SET		NEST	INDEN-TOR	DIE SET	NEST	INDEN-TOR	DIE SET
		MS6-10-U ①			MS6-C ①	Adaptor **AU150-C** with die set **MS..-C**						
	MA3.5-U ①	MS6-10-U ①	MA2-C ①	PA10-C	MS10-C ①		Adaptor **AU230-130D** with die set **MA..-C** and indentor **PA..-C**		Adaptor **AU230-130D** with die set **MS..-C**	Adaptor **AU520-130C** with die set **MA..-C** and indentor **PA..-C**		Adaptor **AU520-130C** with die set **MS..-C**
		MS16-25-U ①	MA3-C ①		MS16-C ①							
		MS16-25-U ①	MA5-C ①		MS25-C ①							
	MA7.14-U ①	MS35-50-U ②	MA7-C ①		MS35-C ①							
	MA10.19-U ①	MS35-50-U ②	MA10-C ①		MS50-C ①							
	MA9.17-U ①	MS70-150-U ②	MA14-C ①	PA24-C	MS70-C ①							
	MA10.19-U ①	MS95-120-U ②	MA19-C ①		MS95-C ①							
	MA24-U ①	MS95-120-U ②	MA24-C ①		MS120-C ①							
	MA30.80-U ①	MS70-150-U ③	MA30-C ①	PA48-C	MS150-C ②							
	MA35-U ③	MS185-U ③	MA37-C ①		MS185-C ②							
	MA48-U ④	MS240-U ④	MA48-C ①		MS240-C ②							
			MA60-C ①	PA60-C	MS300-C ③							
					MS400-C ③							

DIE SELECTOR CHART

APPLICATION	CONDUCTOR	CONNECTOR					
COPPER CONDUCTORS	**Conductor Size Flex AWG**	**TERMINAL**					
ANE..-M..	8	ANE2-M..	ANE2-P12	ANE2-U..	AN2-M..	IN2-M..	EN2-M.. ENR2-M..
	6	ANE3-M..	ANE3-P14	ANE3-U..	AN3-M..	IN3-M..	EN3-M..
	4	ANE5-M..	ANE5-P16		AN5-M..		
ANE..-P..	2	ANE7-M..	ANE7-P20		AN7-M..	IN7-M..	EN7-M..
	2-1/0	ANE10-M..			AN10-M..	IN10-M..	EN10-M.. ENR10-M..
	1/0-2/0	ANE14-M..			AN14-M..	IN14-M..	EN14-M..
ANE..-U..	2/0-3/0	ANE19-M..			AN19-M..	IN19-M..	EN19-M..
	3/0-250	ANE24-M..			AN24-M..	IN24-M..	EN24-M..
	250-300 MCM	ANE30-M..			AN30-M..	IN30-M..	EN30-M..
AN..-M..	300-350 MCM					IN37-M.. INR37-M..	
IN..-M.. EN..-M..	500 MCM					IN48-M..	EN48-M..
	600 MCM					IN60-M..	EN60-M..
	800 MCM					IN80-M..	EN80-M..
EXTRA FLEXIBLE COPPER CONDUCTORS	2	ANE9-M..					
	1/0	ANE12-M..					
ANE..-M..	2/0	ANE17-M..					
	3/0	ANE20-M..					
	250 MCM	ANE29-M..					
	300 MCM	ANE35-M..					
COPPER CONDUCTORS	**Conductor Size Flex AWG**	**TERMINAL**					
	22 ÷ 12	PKD506÷PKD418	PKE508÷PKE418	PKC508÷PKC418	KE506÷KE412		
PK ...	12 ÷ 6	PKD410÷PKD1618	PKE410÷PKE1618	PKC410÷PKC1618	KE410÷KE1616		
	5	PKD16..	PKE16..	PKC16..	KE16..		
	3	PKD25..	PKE25..	PKC25..	KE25..		
KE ...	2	PKD35..		PKC35..	KE35..		
	1/0	PKD50..		PKC50..			
	2/0			PKC70..			
	3/0			PKC95..			
	250 MCM			PKC120..			
	Conductor Size Flex AWG	**TERMINAL**					
	2 x 20	PKT508 PKT510					
	2 x 18	PKT7508 PKT7510					
PKT ...	2 x 17	PKT108 PKT110					
	2 x 16	PKT1508 PKT1512					
	2 x 14	PKT2510 PKT2512					
	2 x 12	PKT412					
	2 x 10	PKT614					
	2 x 8÷7	PKT1014					
	2 x 6÷5	PKT1614					

= *Indent crimp* = *Radial crimp* = *Trapezium crimp*

DIE SELECTOR CHART

	HYDRAULIC TOOLS								
	B15MA	HT45-E B450ND-BVA	HT51 RH50 B500A B500NDA B550CA	B1300L-CA and similar tools for U dies			B1500A	ECW-H3D	
	DIE SET		DIE SET	NEST	INDENTOR	DIE SET	DIE SET	NEST	INDENTOR
	NN4-15		MN2RF-50	MN2-C	PN7-C	MN2RF-C	Adaptor **AU150-C** with die set **MN..-C** and indentor **PN..-C** or with die set **MN..-RF-C** and die set **MN..F-C**	Adaptor **AU230-130D** with die set **MN..-C** and indentor **PN..-C** or with die set **MN..-RF-C** and die set **MN..F-C**	
			MN3RF-50	MN3-C		MN3RF-C			
			MN5RF-50	MN5-C		MN5RF-C			
			MN7RF-50	MN7-C		MN7RF-C			
			MN10RF-50	MN10-C	PN14-C	MN10RF-C			
			MN14RF-50	MN14-C		MN14RF-C			
			MN19RF-50	MN19-C	PN24-C	MN19RF-C			
			MN24RF-50	MN24-C		MN24RF-C			
				MN30-C	PN37-C	MN30RF-C			
			MN7RF-50	MN9-C	PN14-C	MN7RF-C	Adaptor **AU150-C** with die set **MN..-C** and indentor **PN..-C** or with die set **MN..-RF-C** and die set **MN..F-C**	Adaptor **AU230-130D** with die set **MN..-C** and indentor **PN..-C** or with die set **MN..-RF-C** and die set **MN..F-C**	
			MN12F-50	MN12-C		MN12F-C			
			MN17F-50	MN17-C	PN24-C	MN17F-C			
			MN20F-50	MN20-C		MN20F-C			
				MN29-C	PN37-C	MN29F-C			
				MN35-C		MN35F-C			
	DIE SET		DIE SET						
	KE4-15								
	KE16-15								
	KE35-15		MTT16-50						
			MTT25-50						
			MTT35-50						
			MTT50-50						
			MTT70-50						
			MTT95-50						
			MTT120-50						
	DIE SET	COMP. APERTURE	DIE SET						
	KE4-15	1							
		1,5							
		2,5							
		2,5							
	KE4-15 KE16-15	4							
	KE16-15	6							
		10							
	KE16-15 KE35-15	16	MTT16-50						
	KE35-15	35	MTT35-50						

CEMBRE

DIE SELECTOR CHART

APPLICATION	CONDUCTOR	CONNECTOR		HYDRAULIC TOOLS		
				B15MA	HT45-E B450ND-BVA	HT51 RH50 B500A B500NDA B550CA
	Conductor Size AWG	LUGS	SPLICES	DIE SET	DIE SET	DIE SET
DIN 46234 Q..	10÷8	Q10-..				MQ10-50 ⌓
	8÷6	Q16-..				MQ16-50 ⌓
	6÷4	Q25-..				MQ25-50 ⌓
	4÷2	Q35-..				MQ35-50 ⌓
	2÷1/0	Q50-..				MQ50-50 ⌓
	1/0÷2/0	Q70-..				MQ70-50 ⌓
	2/0÷3/0	Q95-..				
	3/0÷250	Q120-..				
	250÷300 MCM	Q150-..				
	300÷350 MCM	Q185-..				
	350÷500 MCM	Q240-..				
DIN 46235 - 46267 T.1 DR.. DSV..	10	DR6-..	DSV6	MK5/8-15 ⬡1	MK5 ⬡1	MK5-50 ⬡1
	8	DR10-..	DSV10		MK6 ⬡1	MK6-50 ⬡2
	6	DR16-..	DSV16		MK8 ⬡2	MK8-50 ⬡2
	4	DR25-..	DSV25		MK10 ⬡2	MK10-50 ⬡2
	2	DR35-..	DSV35		MK12 ⬡2	MK12-50 ⬡2
	1/0	DR50-..	DSV50		MK14 ⬡3	MK14-50 ⬡3
	2/0	DR70-..	DSV70		MK16 ⬡3	MK16-50 ⬡3
	3/0	DR95-..	DSV95		MK18 ⬡4	MK18-50 ⬡4
	250	DR120-..	DSV120		MK20 ⬡4	MK20-50 ⬡4
	300MCM	DR150-..	DSV150		MK22L ⬡4	MK22-50 ⬡4
	350 MCM	DR185-..	DSV185			MK25-50 ⬡4
	500 MCM	DR240-..	DSV240			MK28-50 ⬡5
	600 MCM	DR300-..	DSV300			MK32-50* ⬡5
	800 MCM	DR400-..	DSV400			
	1000 MCM	DR500-..	DSV500			
	1200 MCM	DR625-..	DSV625			
	1500 MCM	DR800-..	DSV800			
	2000 MCM	DR1000-..	DSV1000			

⌓ = *Indent crimp* ⬡ = *Hexagonal crimp* * *Only for B500A, B500NDA and RH50*

NB: for through connectors this is the number of crimps per conductor

DIE SELECTOR CHART

	HYDRAULIC TOOLS					
	HT81-U RHU81 ◊	B1300L-CA and similar tools for U dies		ECW-H3D		RHU520
	DIE SET	NEST	INDENTOR	NEST	INDENTOR	
	MQ10-50	MQM10-C	MQS16-C	Adaptor **AU230-130D** with die set **MQ...**		Adaptor **AU520-130C** with die set **MQ...**
	MQ16-50	MQM16-C				
	MQ25-50	MQM25-C	MQS-35-C			
	MQ35-50	MQM35-C				
	MQ50-50	MQM50-C	MQS70-C			
	MQ70-50	MQM70-C				
		MQM95-C	MQS150-C			
		MQM120-C				
		MQM150-C				
		MQM185-C	MQS240-C			
		MQM240-C				
	MK5-50 (1)	MK5-C (1)		Adaptor **AU230-130D** with die set **MK..-C**		Adaptor **AU520-130C** with die set **MK..-C**
	MK6-50 (2)	MK6-C (1)				
	MK8-50 (2)	MK8-C (1)				
	MK10-50 (2)	MK10-C (1)				
	MK12-50 (2)	MK12-C (1)				
	MK14-50 (3)	MK14-C (1)		MK14-3D (2)		
	MK16-50 (3)	MK16-C (1)		MK16-3D (2)		
	MK18-50 (4)	MK18-C (2)		MK18-3D (2)		
	MK20-50 (4)	MK20-C (2)		MK20-3D (2)		
	MK22-50 (4)	MK22-C (2)		MK22-3D (2)		
	MK25-50 (4)	MK25-C (2)		MK25-3D (2)		
	MK28-50 (5)	MK28-C (2)		MK28-3D (2)		
		MK32-C (5)		MK32-3D (2)		
				MK38-3D (3)		MK38-520 (3)
				MK42-3D (3)		MK42-520 (3)
				MK44-3D (3)		MK44-520 (3)
						MK52-520 (3)
						MK58-520 (3)

◊ Tools type HT 81-U and RHU 81 with adaptor type 6780232 can use the same dies of HT 51 but are equipped with spring type 6522051

CEMBRE

COPPER CONDUCTORS

APPLICATION	CONDUCTOR		CONNECTOR			HYDRAULIC TOOLS: HT45-E B450ND-BVA	HT51 RH50 B500A B500NDA B550CA	HT 81-U RHU 81	B1300L-CA and similar tools for U dies	ECW-H3D	RHU520
H..-H..	Conductor Size AWG		CONNECTOR	CONNECTOR					DIE SET	DIE SET	DIE SET
	Run	Tap									
	2/0	2/0	H70-H70	H70-H70ST					MRH26-C (1)	Adaptor AU230-130-D with die set MRH..-C	Adaptor AU520-130-C with die set MRH..-C
	4/0	4/0	H95-H95	H95-H95ST					MRH30-C (1)		
	250 MCM	250 MCM	H120-H120	H120-H120ST					MRH32-C (1)		
DK..-M..	Cond. Size sqmm		CONNECTOR	CONNECTOR					DIE SET	DIE SET	DIE SET
	2 x 1/0		DK50-M12						MRD22-C (2)	Adaptor AU230-130-D with die set MRD..-C	Adaptor AU520-130-C with die set MRD..-C
	2 x 2/0		DK70-M12	DK70-2M12-51AS					MRD24-C (2)		
	2 x 4/0		DK95 -M12	DK95-2M12-51AS					MRD29-C (2)		
	2 x 250 MCM		DK120-M12	DK120-2M12-51AS					MRD32-C (2)		
DR..-2M12-51AS	Cond. Size sqmm		CONNECTOR	CONNECTOR		DIE SET	DIE SET	DIE SET	DIE SET	DIE SET	DIE SET
	2/0		DR70-2M12-51AS			MK16 (3)	MK16-50 (3)	MK16-50 (3)	MK16-C (1)	MK16-3D (2)	Adaptor AU520-130-C with die set MK..-C
	4/0		DR95-2M12-51AS			MK18 (4)	MK18-50 (4)	MK18-50 (4)	MK18-C (2)	MK18-3D (2)	
	250 MCM		DR120-2M12-51AS			MK20 (4)	MK20-50 (4)	MK20-50 (4)	MK20-C (2)	MK20-3D (2)	

H.V. COPPER CONDUCTORS

APPLICATION	CONDUCTOR			CONNECTOR			HYDRAULIC TOOLS: HT51 RH50 B500A B500NDA B550CA	HT 81-U RHU 81	B1300L-CA and similar tools for U dies	B1500A	ECW-H3D	RHU520
MT..-TD MT..-GC	Cond. Size sqmm	SPLICE		TERMINAL			DIE SET	DIE SET	DIE SET	DIE SET	DIE SET	DIE SET
	25 R	MT25-TD	MT25-GC	CA25-M..	CA25-2M..	MT25-C..	MMT25-50 ◯	MMT25-U ◯	MMT25-C ◯	Adaptor AU150-C with die set MMT..-C + or die set ME..-C	Adaptor AU230-130D with die set MMT..-C	Adaptor AU520-130C with die set MMT..-C
	35 RC/S ÷ 40 S	MT40S-TD	MT40S-GC	CA40S-M..	CA40S-2M..	MT40S-C..	MMT50-50 ◯	MMT50-U ◯	MMT50-C ◯			
	50 RC	MT50R-TD	MT50R-GC	CA50R-M..	CA50R-2M..	MT50R-C..						
	50 S	MT50S-TD	MT50S-GC	CA50S-M..	CA50S-2M..	MT50S-C..						
	63 S ÷ 70 S	MT70S-TD	MT70S-GC	CA70S-M..	CA70S-2M..	MT70S-C..	MMT95-50 ◯	MMT95-U ◯	MMT95-C ◯			
	80 S ÷ 95 RC	MT95R-TD	MT95R-GC	CA95R-M..	CA95R-2M..	MT95R-C..						
CA..-M.. CA..-2M..	95 S ÷ 100 S	MT95S-TD	MT95S-GC	CA95S-M..	CA95S-2M..	MT95S-C..						
	120 RC/S ÷ 150 RC	MT150R-TD	MT150R-GC	CA150R-M..	CA150R-2M..	MT150R-C..	MMT200-50 ◯	MMT200-U ◯	MMT200-C ◯			
	150 S ÷ 160 RC	MT150S-TD	MT150S-GC	CA150S-M..	CA150S-2M..	MT150S-C..						
	160 S ÷ 200 RC	MT200R-TD	MT200R-GC	CA200R-M..	CA200R-2M..	MT200R-C..						
	200 S ÷ 240 RC	MT240R-TD	MT240R-GC	CA240R-M..	CA240R-2M..	MT240R-C..			MMT315-C ◯			
	240 S ÷ 315 RC	MT315R-TD	MT315R-GC	CA315R-M..	CA315R-2M..	MT315R-C..						
MT..-C..	315 S	MT315S-TD	MT315S-GC	CA315S-M..	CA315S-2M..	MT315S-C..						
	400 R	MT400-TD		2A80-M..	2A80-2M..				ME80-C ⬡		ME80-3D ⬡	ME80-520 ⬡
	500 R	MT500-TD		2A100-M..	2A100-2M..						ME100-3D ⬡	ME100-520 ⬡
	600 R ÷ 630 R	MT630-TD		2A120-M..	2A120-2M..						ME120-3D ⬡	ME120-520 ⬡

⬡ = Hexagonal crimp ◯ = oval crimp ◯ = circular crimp

** When using die set type MC70-50, the conductors marked with a star must be annealed.*

ALUMINIUM CONDUCTORS

APPLICATION	CONDUCTOR	CONNECTOR			HYDRAULIC TOOLS			
					HT 131-UC RHU 131-C B1350-UCA B1300-UCA			
	Conductor Size AWG	LUGS			DIE HOLDER	DIE		INDENTOR
CAA..-M..	8	CAA10-M..			AU130-150	MV35	MUA35	PS130-35/E
	6	CAA16-M..	MTA16-C					
	4	CAA25-M..	MTA25-C					
	2	CAA35-M..	MTA35-C					
	1/0	CAA50-M..	MTA50-C			MV95	MUA95	PS130-95/E
	2/0	CAA70-M..	MTA70-C..					
	3/0	CAA95-M..	MTA95-C..					
MTA..-C	250 MCM	CAA120-M..	MTA120-C..			MV150	MUA150	PS130-150/E
	300 MCM	CAA150-M..	MTA150-C..					
	350 MCM	CAA185-M..	MTA185-C..		AU130-240	MV240	MUA240	PS130-240/E
	500 MCM	CAA240-M..	MTA240-C..					
	600 MCM	CAA300-34M..				MUA300-34		
	Conductor Size AWG	LUGS			DIE HOLDER	DIE		INDENTOR
AA..-M..	6	AA16-M..			AU130-150	MUA35		PS130-35/E
	4	AA25-M..						
	2	AA35-M..						
	1/0	AA50-M..				MUA95		PS130-95/E
	2/0	AA70-M..						
	3/0	AA95-M..						
	250 MCM	AA120-M..				MUA150		PS130-150/E
	300 MCM	AA150-M..						
	350 MCM	AA185-M..			AU130-240	MUA240		PS130-240/E
	500 MCM	AA240-M..						
	600 MCM	AA300-34M..				MUA300-34		

= *Deep indent crimp*

ALUMINIUM CONDUCTORS

MTMA..-..GC

Conductor Size AWG	SPLICE		Conductor Size AWG Al	Conductor Size AWG Al/Cu	SPLICES	HYDRAULIC TOOLS HT 131-UC RHU 131-C B1350-UCA B1300-UCA		
						DIE HOLDER	DIE	INDENTOR
8	MTMA10-GC					AU130-150	MVM35 (V) MUA35 (V)	PS130-35/E
6	MTMA16-GC	MTMA16/1	6	8	MTMA16-10GC			
4	MTMA25-GC	MTMA25/1	4	8	MTMA25-10GC			
			4	6	MTMA25-16GC			
2	MTMA35-GC	MTMA35/1						
1/0	MTMA50-GC	MTMA50/1	1/0	5	MTMA50-25GC		MVM95 (V) MUA95 (V)	PS 130-95/E
			1/0	2	MTMA50-35GC			
2/0	MTMA70-GC	MTMA70/1	2/0	2	MTMA70-35GC			
			2/0	1/0	MTMA70-50GC			
3/0	MTMA95-GC	MTMA95/1	3/0	1/0	MTMA95-50GC			
			3/0	2/0	MTMA95-70GC			
250 MCM	MTMA120-GC	MTMA120/1	250 MCM	2/0	MTMA120-70GC		MVM150 (V) MUA150 (V)	PS130-150/E
			250 MCM	3/0	MTMA120-95GC			
300 MCM	MTMA150-GC	MTMA150/1	300 MCM	2/0	MTMA150-70GC			
			300 MCM	3/0	MTMA150-95GC			
			300 MCM	250 MCM	MTMA150-120GC			
350 MCM	MTMA185-GC	MTMA185/1	350 MCM	250 MCM	MTMA185-120GC	AU130-240	MVM240 (V) MUA240 (V)	PS130-240/E
			350 MCM	300 MCM	MTMA185-150GC			
500 MCM	MTMA240-GC	MTMA240/1	500 MCM	300 MCM	MTMA240-150GC			
			500 MCM	350 MCM	MTMA240-185GC			
600 MCM	MTMAD300-GC	MTMAD300/1	600 MCM	350 MCM	MTMAD 300-185 GC		MUA 300-34 (V)	
			600 MCM	500 MCM	MTMAD 300-240 GC			

(V) = *Deep indent crimp*

PRE-ROUNDERS SELECTION

ALUMINIUM CONDUCTOR SIZE sqmm	PRE-ROUNDER	DIE-SUPPORT
3	UP 130-25	AC 130-P
2	UP 130-35	
1/0	UP 130-50	
2/0	UP 130-70	
3/0	UP 130-95	
250 MCM	UP 130-120	
300 MCM	UP 130-150	
350 MCM	UP 130-185	
500 MCM	UP 130-240	

DIES DESCRIPTION

1) AU 130-.. DIE-HOLDER
Used to house dies and pre-rounders.

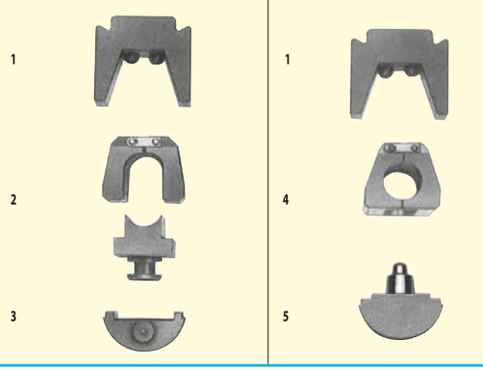
2) UP 130-.. PRE-ROUNDERS
Used to round aluminium sectoral conductors in order to introduce them into circular connectors. Each pre-rounder is made of two parts: the upper part is housed in die-holder AU 130-.. and the lower part is locked onto AC 130-P.. die support.

3) AC 130-P.. DIE SUPPORT
Houses lower part of pre-rounder UP 130-..

4) MUA... DIES
Containing dies.

5) PS 130-../E INDENTORS
Such indentors are specifically engineered for deep indentation of aluminium conductors of any stranding configuration.

DIES SEQUENCE



ALUMINIUM CONDUCTORS

APPLICATION	CONDUCTOR	CONNECTOR				HYDRAULIC TOOLS							
						B1300L-CA and similar tools for U dies	HT131-UC RHU131-C B1350-UCA B1300-UCA			ECW-H3D	RHU230-630		
	Conductor Size AWG	LUGS				HEXAGONAL CRIMP	INDENT CRIMP			HEXAGONAL CRIMP	INDENT CRIMP		
						DIE SET	DIE HOLDER	DIE	INDENTOR	DIE SET	ADAPTOR	DIE	INDENTOR
CAA..-M..	600 MCM	CAA300-34-M..				MK34L-C ⬡	AU130-240	MUA300-34 ⋁	PS130-240/E	MK34-3D ⬡			
	600 MCM	CAA300-M16								MK38-3D ⬡	AU 230-630	MV230-400MC5E ⋁	PS230-400 5E
	800 MCM	CAA400-M16											
	1000 MCM	CAA500-M16TNBD											
	1250 MCM	CAA630-4M8								MK46-3D ⬡		MV230-630MC6E ⋁	PS230-630 6E
	Conductor Size AWG	LUGS				DIE SET	DIE HOLDER	DIE	INDENTOR	DIE SET	ADAPTOR	DIE	INDENTOR
AA..-M..	600 MCM	AA300-34-M..				MK34L-C ⬡	AU130-240	MUA300-34 ⋁	PS130-240/E	MK34-3D ⬡			
	600 MCM	AA300-M16								MK38-3D ⬡	AU 230-630	MUA230-630-400 ⋁	PS230-400 5E
	800 MCM	AA400-M16											
	1000 MCM	AA500-40-M16											
	1250 MCM	AA630-M16								MK46-3D ⬡		MUA230-630-630 ⋁	PS230-630 6E
	Conductor Size AWG	SPLICES	Conductor Size AWG Al	Conductor Size AWG Al/Cu	SPLICE	DIE SET	DIE HOLDER	DIE	INDENTOR	DIE SET	ADAPTOR	DIE	INDENTOR
	600 MCM	MTMAD300/1	600 MCM	3/0	MTMAD300-95-GC	MK34L-C ⬡	AU130-240	MUA300-34 ⋁	PS130-240/E	MK34-3D ⬡			
				300 MCM	MTMAD300-150-GC								
		MTMAD300-GC		350 MCM	MTMAD300-185-GC								
				500 MCM	MTMAD300-240-GC								
MTMA..	600 MCM	MTMA300-GC								MK38-3D ⬡	AU 230-630	MVM230-400MJ5E ⋁	PS230-400 5E
	800 MCM	MTMA400/1	800 MCM	500 MCM	MTMA400-240-GC								
				600 MCM	MTMA400-300-GC								
	1000 MCM	MTMA500-40/1											
	1000 MCM	MTMA500-GC	1000 MCM	600 MCM	MTMA500-300-GC					MK46-3D ⬡		MVM230-630MJ6E ⋁	PS230-630 6E
				800 MCM	MTMA500-400-GC								
	1250 MCM	MTMA630/1											

⋁ = Deep indent crimp ⬡ = Hexagonal crimp

MUT DIES CROSS REFERENCE CHART

DIE INDEX	DIE TYPE			
	14.6 tons tools 131 series	6 tons tools 51 series	6 tons tools 45 series	6 & 6.4 tons tools 54 & 55 series
161	**MUT9999-C**	MUT9999-50	MUT9999	MUT9999-W
162	**MUT9998-C**	MUT9998-50	MUT9998	MUT9998-W
163	**MUT9997-C**	MUT9997-50	MUT9997	MUT9997-W
164	**MUT9996-C**	MUT9996-50	MUT9996	MUT9996-W
166	**MUT9995-C**	MUT9995-50	MUT9995	MUT9995-W
167	**MUT9958-C**	-	-	MUT9958-W
168	**MUT9974-C**	-	-	-
169	**MUT9979-C**	-	-	-
170	**MUT9973-C**	-	-	-
203	**MUT9943-C**	MUT9943-50	-	MUT9943-W
204	**MUT9941-C**	MUT9941-50	-	MUT9941-W
209	**MUT9972-C**	-	-	-
239	**MUT9993-C**	MUT9993-50	MUT9993	MUT9993-W
242	**MUT9967-C**	-	-	-
243	**MUT9991-C**	MUT9991-50	MUT9991	MUT9991-W
247	-	MUT9954-50	-	MUT9954-W
249	**MUT9990-C**	MUT9990-50	MUT9990	MUT9990-W
253	**MUT9957-C**	-	-	-
255	**MUT9962-C**	-	-	-
261	**MUT9956-C**	-	-	-
296* beige	**MUT9924-C**	-	-	-
297* yellow olive	**MUT9923-C**	-	-	-
298* white	**MUT9921-C**	-	-	-
299* brown	**MUT9918-C**	-	-	-
300* pink	**MUT9916-C**	-	-	-
305	**MUT9977-C**	-	-	-
316	**MUT9976-C**	-	-	-
317	**MUT9965-C**	-	-	-
322	**MUT9971-C**	-	-	-
324* red	**MUT9920-C**	-	-	-
327	**MUT9961-C**	-	-	-
346* grey	**MUT9928-C**	-	-	-
348* pink	**MUT9926-C**	-	-	-
373	**MUT9989-C**	MUT9989-50	-	MUT9989-W
374* blue	**MUT9929-C**	-	-	-
375* green	**MUT9927-C**	-	-	-
467* rubin	**MUT9922-C**	-	-	-
470* blue	**MUT9919-C**	-	-	-
471* gold	**MUT9925-C**	-	-	-
472* green	**MUT9917-C**	-	-	-
473* black	**MUT9915-C**	-	-	-
490	**MUT9966-C**	-	-	-
642	**MUT9970-C**	-	-	-
654	**MUT9975-C**	MUT9975-50	-	-
655	**MUT9968-C**	-	-	-
658	**MUT9988-C**	MUT9988-50	-	MUT9988-W
659	**MUT9987-C**	MUT9987-50	MUT9987	MUT9987-W
936* yellow	**MUT9914-C**	-	-	-
698	**MUT9986-C**	MUT9986-50	MUT9986	MUT9986-W
699	**MUT9985-C**	MUT9985-50	-	MUT9985-W
708	**MUT9959-C**	-	-	-
756	**MUT9964-C**	-	-	-
788	**MUT9950-C**	-	-	-
790	**MUT9969-C**	-	-	-
BG	**MUT9984-C**	MUT9984-50	-	MUT9984-W
C	**MUT9983-C**	MUT9983-50	MUT9983	MUT9983-W
D	**MUT9978-C**	-	-	-
D3	**MUT9981-C**	MUT9981-50	-	-
E	**MUT9982-C**	MUT9982-50	-	MUT9982-W
F	**MUT9960-C**	-	-	-
K840	-	-	-	MUT9942-W
N	**MUT9955-C**	-	-	-
O	**MUT9980-C**	MUT9980-50	-	MUT9980-W

Stainless steel dies

APPENDIX

Type/Code Cross-Reference chart

Type	Code
1112	3005715
1116	3005720
1120	3005725
1125	3005730
1132	3005735
1140	3005740
1150	3005745
1163	3005750
1400	3003110
1401	3003114
1402	3003120
1403	3003125
1404	3003130
1405	3003135
1407	3003155
1408	3003170
1410	3005610
1411	3005615
1412	3005620
1414	3005630
1415	3005635
1700	3003015
1701	3003020
1702	3003025
1703	3003030
1704	3003035
1705	3003040
1706	3003045
1707	3003050
1708	3003055
1709	3003010
1710	3005515
1711	3005520
1712	3005525
1713	3005530
1714	3005535
1715	3005540
1719	3005510
1830	3004110
1831	3004115
1832	3004120
1835	3004222
1836	3004225
1840	3006610
1841	3006615
1842	3006620
1843	3006625
1844	3006630
1845	3006635
1846	3006640
1847	3006645
1848	3006650
1849	3006655
1861	3004515
1862	3004520
1866	3004615
1880	3016215
1881	3016220
1882	3016225
1883	3016230
1884	3016235
1885	3016240
1886	3016245
1887	3016250
1888	3016255
1889	3016405
1890	3016410
1891	3016430
1892	3016440
1893	3016460
1894	3016480
1895	3016490
1896	3016500
1897	3016510
1898	3016520
1899	3016530
2155	3051010
2156	3051015
2157	3051020
2158	3051125
2160	3051130
2161	3051135
2162	3051140
2163	3051145
2164	3051150
2171	3051310
2172	3051315
2173	3051320
2174	3051325
2176	3051430
2323	3052010
2326	3052020
2329	3052030
2333	3052110
2336	3052120
2339	3052130
2342	3052140
2344	3052150
2346	3052160
3601	3026020
3602	3026030
3603	3026040
180709	3017610
180911	3017620
180913	3017625
181113	3017630
181116	3017640
181316	3017650
181321	3017655
181621	3017660
182129	3017670
182936	3017680
183642	3017690
184248	3017700
1052007	3005900
1052009	3005903
1052011	3005906
1052013	3005909
1052016	3005912
1052021	3005915
1052029	3005918
1052036	3005921
1052042	3005924
1052048	3005927
1141012	3005120
1141112	3005155
1141200	3005170
1142007	3005010
1142009	3005015
1142011	3005020
1142013	3005025
1142016	3005030
1142021	3005035
1142029	3005040
1142036	3005045
1142042	3005050
1142048	3005055
2021012	3014120
2021014	3014110
2021034	3014130
2021038	3014115
2021058	3014125
2021100	3014135
2021112	3014155
2021114	3014145
2021118	3014140
2021200	3014170
3411012	3016645
3411014	3016615
3411034	3016665
3411038	3016625
3411100	3016695
3412011	3016635
3412016	3016657
3412021	3016685
3412029	3016705
3422016	3016658
3431100	3016895
3441012	3017045
3441034	3017065
3572007	3017410
3572011	3017430
3572013	3017445
3572016	3017455
3572021	3017480
6010.114	3016070
7032007	3010604
7032009	3010606
7032011	3010608
7032013	3010610
7032016	3010614
7032021	3010616
7032029	3010618
7032036	3010620
7032042	3010622
7032048	3010624
35720131	3017446
5116660250	3061210
5116660500	3061215
5313022048	3061605
5523036090	3061610
5527030079	3061615
1719E17	3005581
1714E34	3005572
1052007N	3005901
1052009N	3005904
1052011N	3005907
1052013N	3005910
1052016N	3005913
1052021N	3005916
1052029N	3005919
1052036N	3005922
1052042N	3005925
1052048N	3005928
1053M12	3005958
1053M12N	3005959
1053M16	3005961
1053M16N	3005962
1053M20	3005964
1053M20N	3005965
1053M25	3005967
1053M25N	3005968
1053M32	3005970
1053M32N	3005971
1053M40	3005973
1053M40N	3005974
1053M50	3005976
1053M50N	3005977
1053M63	3005979
1053M63N	3005980
1112N	3005716
1116N	3005721
1120N	3005726
1125N	3005731
1132N	3005736
1140N	3005741
1141012N	3005121
1141112N	3005156
1141200N	3005171
1142007G	3005012
1142007N	3005011
1142009G	3005017
1142009N	3005016
1142011G	3005022
1142011N	3005021
1142013G	3005027
1142013N	3005026
1142016G	3005032
1142016N	3005031
1142021G	3005037
1142021N	3005036
1142029G	3005042
1142029N	3005041
1142036G	3005047
1142036N	3005046
1142042G	3005052
1142042N	3005051
1142048G	3005057
1142048N	3005056
1143M12	3005215
1143M12G	3005217
1143M12N	3005216
1143M16	3005220
1143M16G	3005222
1143M16N	3005221
1143M20	3005225
1143M20G	3005227
1143M20N	3005226
1143M25	3005230
1143M25G	3005232
1143M25N	3005231
1143M32	3005235
1143M32G	3005237
1143M32N	3005236
1143M40	3005240
1143M40G	3005242
1143M40N	3005241
1143M50	3005245
1143M50G	3005247
1143M50N	3005246
1143M63	3005250
1143M63G	3005252
1143M63N	3005251
1150N	3005746
1153M1612	3018860
1153M2012	3018862
1153M2016	3018864
1153M2016N	3018865
1153M2512	3018866
1153M2516	3018868
1153M2520	3018870
1153M2520N	3018871
1153M3216	3018874
1153M3220	3018876
1153M3225	3018878
1153M3225N	3018879
1153M4020	3018882
1153M4025	3018884
1153M4032	3018886
1153M5025	3018890
1153M5032	3018892
1153M5040	3018894
1153M6332	3018898
1153M6340	3018900
1153M6350	3018902
1163N	3005751
1173M1216	3018810
1173M1620	3018812
1173M2025	3018814
1173M2532	3018816
1173M3240	3018820
1253M12	3006750
1253M12N	3006751
1253M16	3006755
1253M16N	3006756
1253M20	3006760
1253M20N	3006761
1253M25	3006765
1253M25N	3006766
1253M32	3006770
1253M32N	3006771
1253M40	3006775
1253M40N	3006776
1253M50	3006780
1253M50N	3006781
1253M63	3006785
1253M63N	3006786
1401B	3003116
1401BN	3003117
1401N	3003115
1402N	3003121
1410N	3005611
1411N	3005616
1412N	3005621
1414N	3005631
1415N	3005636
1500.07	3002010
1500.07N	3002011
1500.09	3002015
1500.09N	3002016
1500.11	3002020
1500.11N	3002021
1500.12	3002120
1500.12N	3002121
1500.13	3002025
1500.13N	3002026
1500.14	3002110
1500.14N	3002111
1500.16	3002030
1500.16N	3002031
1500.21	3002035
1500.21N	3002036
1500.34	3002130
1500.34N	3002131
1500.38	3002115
1500.38N	3002116
1500.M12	3002205
1500.M12N	3002206
1500.M16	3002210
1500.M16N	3002211
1500.M20	3002215
1500.M20N	3002216
1500.M25	3002220
1500.M25N	3002221
1500.M32	3002225
1500.M32N	3002226
1618.90	3041350
1626.90	3041360
1636.90	3041370
1651.90	3041380
1676.90	3041390
1700.2	3004015
1700.2N	3004016
1700N	3003016
1700P	3006015
1700T	3003515
1700TN	3003516
1701.2	3004020
1701.2N	3004021
1701N	3003021
1701P	3006020
1701PN	3006021
1701T	3003517
1701TN	3003518
1702.2	3004025
1702.2N	3004026
1702.5	3004425
1702.5N	3004426
1702CONC	3003523
1702CONCN	3003524
1702N	3003026
1702P	3006025
1702PN	3006026
1702T	3003519
1703.2	3004030
1703.5	3004430
1703P	3006030
1704.2	3004035
1704P	3006035
1705.2	3004040
1710N	3005516
1711N	3005521
1712N	3005526
1713N	3005531
1714N	3005536
1715N	3005541
1719E17N	3005580
1719N	3005511
1730M20	3003225
1730M20N	3003226
1830N	3004111
1831N	3004116
1832N	3004121
1836N	3004226
1840N	3006611
1841N	3006616
1842N	3006621
1843N	3006626
1844N	3006631
1845N	3006636
1846N	3006641
1847N	3006646
1848N	3006651
1849N	3006656
1861N	3004516
1862N	3004521
1866N	3004616
1884A	3016236
1888/5	3016256
1890A	3016420
1891A	3016431
1892A	3016450
1892B	3016451
1893A	3016461
1899A	3016535

Type/Code Cross-Reference chart

Type	Code
1899B	3016540
1900.07	3001010
1900.07/X	3001077
1900.07G	3001012
1900.07N	3001011
1900.09	3001015
1900.09/X	3001080
1900.09G	3001017
1900.09N	3001016
1900.11	3001020
1900.11/X	3001083
1900.11G	3001022
1900.11N	3001021
1900.12	3001120
1900.12N	3001121
1900.13	3001025
1900.13/X	3001086
1900.13G	3001027
1900.13N	3001026
1900.14	3001110
1900.14N	3001111
1900.16	3001030
1900.16/X	3001089
1900.16G	3001032
1900.16N	3001031
1900.21	3001035
1900.21/X	3001092
1900.21G	3001037
1900.21N	3001036
1900.29	3001040
1900.29/X	3001095
1900.29G	3001042
1900.29N	3001041
1900.34	3001130
1900.34N	3001131
1900.36	3001045
1900.36/X	3001098
1900.36G	3001047
1900.36N	3001046
1900.38	3001115
1900.38N	3001116
1900.42	3001050
1900.42/X	3001101
1900.42G	3001052
1900.42N	3001051
1900.48	3001055
1900.48/X	3001104
1900.48G	3001057
1900.48N	3001056
1900.M12	3001215
1900.M12/X	3001310
1900.M12G	3001217
1900.M12N	3001216
1900.M16	3001220
1900.M16/X	3001313
1900.M16G	3001222
1900.M16N	3001221
1900.M20	3001225
1900.M20/X	3001316
1900.M20G	3001227
1900.M20N	3001226
1900.M25	3001230
1900.M25/X	3001319
1900.M25G	3001232
1900.M25N	3001231
1900.M32	3001235
1900.M32/X	3001322
1900.M32G	3001237
1900.M32N	3001236
1900.M40	3001240
1900.M40/X	3001325
1900.M40G	3001242
1900.M40N	3001241
1900.M50	3001245
1900.M50/X	3001328
1900.M50G	3001247
1900.M50N	3001246
1900.M63	3001250
1900.M63/X	3001331
1900.M63G	3001252
1900.M63N	3001251
1900DP.07	3001150
1900DP.09	3001153
1900DP.11	3001156
1900DP.13	3001159
1900DP.16	3001162
1900DP.21	3001165
1900DP.29	3001168
1900DP.36	3001171
1900DP.42	3001174
1900DP.48	3001177
1900DP.M12	3013380
1900DP.M16	3013383
1900DP.M20	3013386
1900DP.M25	3013389
1900DP.M32	3013392
1900DP.M40	3013395
1900DP.M50	3013398
1900DP.M63	3013401
1901.07	3001503
1901.07N	3001504
1901.09	3001515
1901.09N	3001516
1901.11	3001520
1901.11N	3001521
1901.13	3001535
1901.13N	3001536
1901.16	3001550
1901.16N	3001551
1901.21	3001568
1901.21N	3001569
1901.29	3001575
1901.29N	3001576
1901.36	3001582
1901.36N	3001583
1901.42	3001590
1901.42N	3001591
1901.48	3001596
1901.48N	3001597
1901.M12	3001650
1901.M12G	3001652
1901.M12N	3001651
1901.M16	3001655
1901.M16G	3001657
1901.M16N	3001656
1901.M20	3001660
1901.M20G	3001662
1901.M20N	3001661
1901.M25	3001665
1901.M25G	3001667
1901.M25N	3001666
1901.M32	3001670
1901.M32G	3001672
1901.M32N	3001671
1901.M40	3001675
1901.M40G	3001677
1901.M40N	3001676
1901.M50	3001680
1901.M50G	3001682
1901.M50N	3001681
1901.M63	3001685
1901.M63G	3001687
1901.M63N	3001686
1910.07	3001501
1910.07N	3001502
1910.09	3001509
1910.09N	3001510
1910.11	3001526
1910.11N	3001527
1910.13	3001539
1910.13N	3001540
1910.16	3001552
1910.16N	3001553
1910.21	3001565
1910.21N	3001566
1910.29	3001578
1910.29N	3001579
1910.36	3001588
1910.36N	3001589
1910.42	3001592
1910.42N	3001593
1910.48	3001598
1910.48N	3001599
1910.M12	3001705
1910.M12G	3001707
1910.M12N	3001706
1910.M16	3001710
1910.M16G	3001712
1910.M16N	3001711
1910.M20	3001715
1910.M20G	3001717
1910.M20N	3001716
1910.M25	3001720
1910.M25G	3001722
1910.M25N	3001721
1910.M32	3001725
1910.M32G	3001727
1910.M32N	3001726
1910.M40	3001730
1910.M40G	3001732
1910.M40N	3001731
1910.M50	3001735
1910.M50G	3001737
1910.M50N	3001736
1910.M63	3001740
1910.M63G	3001742
1910.M63N	3001741
1925.3	3016470
200101241N	3013121
200101441N	3013111
200103441N	3013131
200103841N	3013116
200105841N	3013126
200110041N	3013136
200111241N	3013156
200111441N	3013146
200111841N	3013141
200120041N	3013171
200121221N	3013186
200130021N	3013196
200200721N	3013011
200200921N	3013016
200201121N	3013021
200201321N	3013026
200201621N	3013031
200202121N	3013036
200202921N	3013041
200203621N	3013046
200204221N	3013051
200204821N	3013056
2003M1221N	3013215
2003M1621N	3013220
2003M2021N	3013225
2003M2521N	3013230
2003M3221N	3013235
2003M4021N	3013240
2003M5021N	3013245
2003M6321N	3013250
2021012N	3014121
2021014N	3014111
2021034N	3014131
2021038N	3014116
2021058N	3014126
2021100N	3014136
2021112N	3014156
2021114N	3014146
2021118N	3014141
2021200N	3014171
2031012N	3015621
2031014N	3015611
2031034N	3015631
2031038N	3015616
2031058N	3015626
2031100N	3015636
2031112N	3015656
2031114N	3015646
2031118N	3015641
2031200N	3015671
2031212N	3015686
2031300N	3015696
2032007N	3015511
2032009N	3015516
2032011N	3015521
2032013N	3015526
2032016N	3015531
2032021N	3015536
2032029N	3015541
2032036N	3015546
2032042N	3015551
2032048N	3015556
2033M12N	3015751
2033M16N	3015756
2033M20N	3015761
2033M25N	3015766
2033M32N	3015771
2033M40N	3015776
2033M50N	3015781
2033M63N	3015786
20420907N	3017810
20421107N	3017820
20421109N	3017822
20421307N	3017830
20421309N	3017832
20421311N	3017835
20421607N	3017840
20421609N	3017842
20421611N	3017845
20421613N	3017847
20422111N	3017850
20422113N	3017855
20422116N	3017858
20422916N	3017860
20422921N	3017865
20423621N	3017870
20423629N	3017875
20424236N	3017885
20424836N	3017890
20424842N	3017895
20431612N	3017949
20432012N	3017951
20432016N	3017953
20432512N	3017955
20432516N	3017957
20432520N	3017959
20433220N	3017961
20433225N	3017963
20434025N	3017965
20434032N	3017967
20435032N	3017969
20435040N	3017971
20436340N	3017973
20436350N	3017975
2052007N	3011810
2052009N	3011815
2052011N	3011820
2052013N	3011825
2052016N	3011830
2052021N	3011835
2052029N	3011840
2052036N	3011845
2052042N	3011850
2052048N	3011855
2053M12N	3011910
2053M16N	3011915
2053M20N	3011920
2053M25N	3011925
2053M32N	3011930
2053M40N	3011935
2053M50N	3011940
2053M63N	3011945
207101441N	3013608
20931216N	3017705
20931620N	3017707
20932025N	3017709
20932532N	3017711
20932540N	3017713
20933240N	3017715
20933250N	3017717
20934050N	3017719
20935063N	3017721
20A40916N	3018650
20A41120N	3018655
20A41320N	3018657
20A41620N	3018659
20A42011N	3018610
20A42016N	3018612
20A42120N	3018661
20A42125N	3018665
20A42513N	3018615
20A42516N	3018617
20A42925N	3018667
20A43216N	3018620
20A43221N	3018621
20M3M1261N	3011410
20M3M1661N	3011412
20M3M2061N	3011414
20M3M2561N	3011416
20M3M3261N	3011418
20M3M4061N	3011420
20M3M5061N	3011422
20M3M6361N	3011424
20N3M12N	3015810
20N3M16N	3015812
20N3M20N	3015814
20N3M25N	3015816
20N3M32N	3015818
20N3M40N	3015820
20N3M50N	3015822
20N3M63N	3015824
2900.07N	3012010
2900.09N	3012015
2900.11N	3012020
2900.13N	3012025
2900.16N	3012030
2900.21N	3012035
2900.29N	3012040
2900.36N	3012045
2900.42N	3012050
2900.48N	3012055
2900.M12N	3012215
2900.M16N	3012220
2900.M20N	3012225
2900.M25N	3012230
2900.M32N	3012235
2900.M40N	3012240
2900.M50N	3012245
2900.M63N	3012250
2900DP.07N	3012160
2900DP.09N	3012162
2900DP.11N	3012164
2900DP.13N	3012166
2900DP.16N	3012168
2900DP.21N	3012170
2900DP.29N	3012172
2900DP.36N	3012174
2900DP.42N	3012176
2900DP.48N	3012178
2900DP.M12N	3012315
2900DP.M16N	3012317
2900DP.M20N	3012319
2900DP.M25N	3012321
2900DP.M32N	3012323
2900DP.M40N	3012325
2900DP.M50N	3012327
2900DP.M63N	3012329
2901.07N	3012590
2901.09N	3012593
2901.11N	3012596
2901.13N	3012599
2901.16N	3012602
2901.21N	3012605
2901.29N	3012608
2901.36N	3012611
2901.42N	3012614
2901.M12N	3012650
2901.M16N	3012652
2901.M20N	3012654
2901.M25N	3012656
2901.M32N	3012658
2901.M40N	3012660
2901.M50N	3012662
2910.07N	3012501
2910.09N	3012511
2910.11N	3012521
2910.13N	3012531
2910.16N	3012541
2910.21N	3012551
2910.29N	3012555
2910.36N	3012560
2910.42N	3012565
2910.48N	3012570
2910.M12N	3012710
2910.M16N	3012712
2910.M20N	3012714
2910.M25N	3012716

CEMBRE

Type/Code Cross-Reference chart

Type	Code
2910.M32N	3012718
2910.M40N	3012720
2910.M50N	3012722
2910.M63N	3012724
2911.07N	3012110
2911.09N	3012113
2911.11N	3012116
2911.13N	3012119
2911.16N	3012122
2911.21N	3012125
2911.29N	3012128
2911.36N	3012131
2911.42N	3012134
2911.M12N	3012750
2911.M16N	3012752
2911.M20N	3012754
2911.M25N	3012756
2911.M32N	3012758
2911.M40N	3012760
2911.M50N	3012762
2A100-2M12	2509742
2A100-2M14	2509760
2A100-2M16	2509780
2A100-M16	2509630
2A100-M20	2509670
2A10-2M12	2502410
2A10-M10	2502070
2A10-M12	2502150
2A10-M14	2502190
2A10-M16	2502230
2A120-2M12	2509910
2A120-2M14	2509930
2A120-2M16	2509970
2A120-M16	2509870
2A120-M20	2509890
2A14-2M12	2503310
2A14-2M14	2503315
2A14-M10	2503030
2A14-M12	2503110
2A14-M14	2503150
2A14-M16	2503190
2A160-2M14	8008603
2A160-2M16	2509982
2A160-M20	2509980
2A19-2M12	2504480
2A19-2M14	2504510
2A19-M10	2504030
2A19-M12	2504110
2A19-M14	2504190
2A19-M16	2504270
2A19-M20	2504350
2A200-2M12	2509993
2A200-2M16	2509985
2A200-2M20	2509994
2A200-M20	2509989
2A24-2M12	2505490
2A24-2M14	2505560
2A24-2M16	2505590
2A24-M10	2505030
2A24-M12	2505150
2A24-M14	2505230
2A24-M16	2505310
2A24-M20	2505390
2A30-2M12	2506400
2A30-2M14	2506410
2A30-M10	2506020
2A30-M12	2506030
2A30-M14	2506110
2A30-M16	2506190
2A30-M20	2506270
2A37-2M12	2507420
2A37-2M14	2507440
2A37-2M16	2507490
2A37-M12	2507070
2A37-M14	2507110
2A37-M16	2507190
2A37-M20	2507270
2A3-M10	2500070
2A3-M8	2500030
2A48-2M12	2508380
2A48-2M14	2508410
2A48-2M16	2508430
2A48-M12	2508030
2A48-M14	2508070
2A48-M16	2508110
2A48-M20	2508190
2A5-M10	2500570
2A5-M12	2500650
2A5-M8	2500530
2A60-2M12	2508700
2A60-2M14	2508760
2A60-2M16	2508770
2A60-M12	2508480
2A60-M14	2508500
2A60-M16	2508530
2A60-M20	2508610
2A7-M10	2501110
2A7-M12	2501150
2A7-M8	2501030
2A80-2M12	2509310
2A80-2M14	2509350
2A80-2M16	2509390
2A80-M12	2509030
2A80-M14	2509070
2A80-M16	2509150
2A80-M20	2509230
3573M16	3017520
3573M20	3017530
3573M25	3017540
3573M32	3017550
36A3M1623	3016910
36A3M1624	3016912
36A3M16322	3016913
36A3M2025	3016920
36A3M2026	3016924
36A3M2034	3016922
36A3M2035	3016925
36A3M20356	3016923
36A3M2526	3016930
36A3M2536	3016932
36A3M2537	3016934
36A3M2545	3016936
36A3M2546	3016937
36A3M2554	3016938
36A3M3228	3016944
36A3M3239	3016946
36A3M32465	3016945
36A3M3248	3016943
36A3M40106	3016954
36A3M4078	3016952
36A3M5088	3016968
36C201629	3016982
36C3M252105	3016985
4300-3127	2590942
4300-3128	2590930
4300-3129	2590931
4300-3132	2590957
4300-3136	2590950
4300-3137	2590934
4300-3138	2590954
4300-3140	2590951
4300-3144	2590958
4300-3146	2590947
4300-3147	2590938
4300-3148	2590939
4300-3153	2590943
4300-3154	2590944
4300-3241	2590935
4300-3258	2590932
4300-3262	2590933
4300-3539	2590959
4300-3540	2590960
4300-3541	2590961
4320-0864	2591274
4320-0865	2591272
4320-0866	2591273
4900.07	3002710
4900.09	3002713
4900.11	3002716
4900.13	3002719
4900.16	3002722
4900.21	3002725
4900.29	3002728
4900.36	3002731
4900.42	3002734
4900.48	3002737
4900.M12	3002750
4900.M16	3002753
4900.M20	3002756
4900.M25	3002759
4900.M32	3002762
4900.M40	3002765
4900.M50	3002768
4900.M63	3002771
4901.07	3002910
4901.09	3002913
4901.11	3002916
4901.13	3002919
4901.16	3002922
4901.21	3002925
4901.29	3002928
4901.36	3002931
4901.42	3002934
4901.48	3002937
4901.M12	3002950
4901.M16	3002953
4901.M20	3002956
4901.M25	3002959
4901.M32	3002962
4901.M40	3002965
4901.M50	3002968
4901.M63	3002971
5900.M12N	3012810
5900.M16N	3012812
5900.M20N	3012814
5900.M25N	3012816
5900.M32N	3012818
5900.M40N	3012820
5900.M50N	3012822
5900.M63N	3012824
5901.M12N	3012850
5901.M16N	3012852
5901.M20N	3012854
5901.M25N	3012856
5901.M32N	3012858
5901.M40N	3012860
5901.M50N	3012862
6010.01	3016090
6010.11	3016030
6010.12	3016040
6010.14	3016010
6010.21	3016080
6010.29	3016100
6010.34	3016060
6010.36	3016110
6010.38	3016020
6010.42	3016120
6010.48	3016130
6010.58	3016050
7032A007	3010628
7032A009	3010630
7032A011	3010632
7032A013	3010634
7032A016	3010636
7032A021	3010638
7032A029	3010640
7032A036	3010642
7032A042	3010644
7032A048	3010646
7033AM12	3010670
7033AM16	3010672
7033AM20	3010674
7033AM25	3010676
7033AM32	3010678
7033AM40	3010680
7033AM50	3010682
7033AM63	3010684
7033M12	3010652
7033M16	3010654
7033M20	3010656
7033M25	3010658
7033M32	3010660
7033M40	3010662
7033M50	3010664
7033M63	3010666
7900.07	3010000
7900.09	3010005
7900.11	3010010
7900.13	3010015
7900.16	3010020
7900.21	3010025
7900.29	3010030
7900.36	3010035
7900.42	3010040
7900.48	3010045
7900.M12	3010110
7900.M16	3010113
7900.M20	3010116
7900.M25	3010119
7900.M32	3010122
7900.M40	3010125
7900.M50	3010128
7900.M63	3010131
7900A.07	3010060
7900A.09	3010062
7900A.11	3010064
7900A.13	3010066
7900A.16	3010068
7900A.21	3010070
7900A.29	3010072
7900A.36	3010074
7900A.42	3010076
7900A.48	3010078
7900A.M12	3010150
7900A.M16	3010152
7900A.M20	3010154
7900A.M25	3010156
7900A.M32	3010158
7900A.M40	3010160
7900A.M50	3010162
7900A.M63	3010164
A03-M3	2100030
A03-M3.5	2100070
A03-M4	2100110
A03-M5	2100150
A03-M6	2100190
A06-M3	2101030
A06-M3.5	2101070
A06-M4	2101110
A06-M5	2101150
A06-M6	2101190
A06-M8	2101230
A100-2M12	8008538
A100-2M16	2370350
A100-4ESI	2370990
A100-M16	2370030
A100-M20	2370110
A10-2M10	8008442
A10-2M10-24-13	2221493
A10-2M12	2221480
A10-2M12-25	2221470
A10-2M6	2221463
A10-2M8	8008434
A10-2M8-20	2221465
A10-2M8-22	2221464
A10-2M8-24-24	2221467
A10-2M8-2424/345	2221466
A10-2M8-30	2221468
A10B-M6/11.5	2220078
A10-L10	2220650
A10-L12	2220690
A10-L16	2220700
A10-L6	2220605
A10-L8	2220610
A10-M10	2220150
A10-M12	2220190
A10-M14	2220230
A10-M16	2220270
A10-M6	2220070
A10-M8	2220110
A10-P25	2221990
A120-2M12	2372490
A120-2M16	2372510
A120-4ESI	2372850
A120-M16	2372070
A120-M20	2372150
A12-M10	2230270
A12-M10/19	2230280
A12-M12	2230310
A12-M6/15	2230210
A12-M8	2230230
A14-2M10	8008438
A14-2M10-24	2241565
A14-2M102426/315	2241570
A14-2M102426/345	2241572
A14-2M12	2241605
A14-2M12-25	2241590
A14-2M12-30-29	2241592
A14-2M123029/345	2241593
A14-2M12-40	2241600
A14-2M14	2241620
A14-2M8	2241555
A14-2M8-24-24	2241552
A14-2M8-2424/345	2241550
A14B-M6/11.5	2240118
A14-L10	2241250
A14-L12	2241290
A14-L16	2241294
A14-L8	2241245
A14-M10	2240230
A14-M12	2240270
A14-M14	2240310
A14-M16	2240350
A14-M6	2240110
A14-M8	2240150
A14-P30	2241730
A160-2M12	8008330
A160-2M16	8008432
A160-4ESI	2374350
A160-M16	2374150
A160-M20	2374170
A17-M10	2250270
A17-M10/19	2250280
A17-M12	2250310
A17-M14	2250350
A17-M16	2250860
A17-M6	2250210
A17-M8	2250230
A19-2M10	2261363
A19-2M10-24-13	2261348
A19-2M10-24-26	2261350
A19-2M102426/345	2261351
A19-2M10-40	2261360
A19-2M12	2261385
A19-2M12-25	2261370
A19-2M12-30-29	2261379
A19-2M123029/345	2261380
A19-2M14	8008318
A19-2M14-25	2261400
A19-2M16	2261420
A19-2M6	2261220
A19-2M8-2424/345	2261330
A19B-M8/15.5	2260163
A19-L10	2260570
A19-L12	2260610
A19-L8	2260560
A19-M10	2260190
A19-M12	2260230
A19-M14	2260270
A19-M16	2260310
A19-M20	2260390
A19-M6	2260110
A19-M8	2260150
A1-L6	2103200
A1-M10	2103270
A1-M3	2103030
A1-M3.5	2103070
A1-M4	2103110
A1-M5	2103150
A1-M6	2103190
A1-M8	2103230
A200-M16	2376090
A200-M20	2376100
A20-M10	2270270
A20-M12	2270310
A20-M14	2270350
A20-M16	2270390
A20-M8	2270230
A2-2M4-12	2170750
A2-2M8-20	2170770
A24-2M10	2281810
A24-2M10-22	2281815
A24-2M102429/345	2281827
A24-2M10-25/24	2281817
A24-2M10-33.5	2281825

Type/Code Cross-Reference chart

Type	Code
A24-2M12	2281930
A24-2M12-30-29	2281910
A24-2M123029/345	2281911
A24-2M12-40	2281920
A24-2M14	2282210
A24-2M16	2282213
A24-2M8-20	2281780
A24-2M8-24-29	2281790
A24-2M8-2429/345	2281791
A24B-2M8-25/19	2281777
A24B-2M8-45/19	2281779
A24B-M10/19	2280155
A24B-M8/19	2280115
A24-L10	2281010
A24-L12	2281050
A24L-2M10-30AS	2281840
A24-M10	2280150
A24-M12	2280190
A24-M14	2280230
A24-M16	2280270
A24-M20	2280310
A24-M8	2280110
A29-M10	2290270
A29-M12	2290310
A29-M14	2290350
A29-M16	2290390
A29-M20	2290430
A29-M8	2290230
A2-L10	2170860
A2-L12	2170870
A2-L4	2170810
A2-L5	2170820
A2-L6	2170830
A2-L8	2170850
A2-M10	2170270
A2-M12	2170310
A2-M4	2170070
A2-M5	2170150
A2-M5/9	2170155
A2-M6	2170190
A2-M8	2170230
A2-P12	2170650
A2-U4	2170510
A2-U5	2170520
A30-2M10	2301280
A30-2M10-24-28	2301260
A30-2M102428/345	2301262
A30-2M12	2301370
A30-2M12-30	2301350
A30-2M12-30-29	2301359
A30-2M123029/345	2301360
A30-2M12-40	2301367
A30-2M14	2301650
A30-2M14-33.5	2301653
A30-2M8-20	2301250
A30-2M8-2429/345	2301255
A30B-M10/19	2300120
A30B-M8/19	2300080
A30-L10	2300870
A30-L12	2300910
A30-M10	2300110
A30-M12	2300150
A30-M14	2300230
A30-M16	2300270
A30-M20	2300350
A30-M8	2300070
A3-2M12-40	2181751
A3-2M8-20	2181750
A35-M10	2310265
A35-M12	2310270
A35-M14	2310310
A35-M16	2310350
A35-M20	2310390
A37-2M10	2320902
A37-2M10-25	2320890
A37-2M10-25/315	2320891
A37-2M12	2320910
A37-2M12-30-31	2320919
A37-2M123031/345	2320920
A37-2M12-32	2320915
A37-2M14	2320970
A37-2M14-35	2320950
A37-2M16	8008485
A37-2M16-40	2320990
A37-4ESI	2321510
A37B-M10/24.5	2320120
A37-L10	2320510
A37-L12	2320550
A37-M10	2320110
A37-M12	2320150
A37-M14	2320190
A37-M16	2320230
A37-M20	2320270
A37-M8	2320070
A3-L10	2180659
A3-L12	2180670
A3-L5	2180620
A3-L6	2180630
A3-L8	2180640
A3-M10	2180270
A3-M12	2180310
A3-M4	2180030
A3-M5	2180110
A3-M5/9	2180120
A3-M6	2180150
A3-M8	2180190
A3-P14	2180830
A3-P22R	2180840
A3-P22R/45	2180843
A3-U4	2181990
A3-U5	2182000
A40-M10	2330230
A40-M12	2330270
A40-M14	2330310
A40-M16	2330350
A40-M20	2330390
A48-2M10	2340750
A48-2M10-20	2340730
A48-2M10-35	2340740
A48-2M12	2340820
A48-2M12/345	2340775
A48-2M12-30/45	2340765
A48-2M12-30-31	2340770
A48-2M123031/345	2340771
A48-2M12-35	2340790
A48-2M12-40	2340810
A48-2M14	2340860
A48-2M14-40	2340850
A48-2M16	2340870
A48-4ESI	2340950
A48-L10	2341293
A48-L12	2341295
A48-M10	2340110
A48-M10/31	2340120
A48-M12	2340150
A48-M12/31	2340158
A48-M14	2340190
A48-M16	2340230
A48-M16/31	2340238
A48-M20	2340310
A48-M8	2340070
A5-2M10-24-13	2190470
A5-2M12-3029/345	2190480
A5-2M8-20	2190450
A5-2M8-24-24	2190460
A5-2M8-24-24/345	2190461
A5-L10	2190750
A5-L12	2190760
A5-L4	2190620
A5-L5	2190630
A5-L6	2190670
A5-L8	2190710
A5-M10	2190190
A5-M12	2190230
A5-M4	2190030
A5-M5	2190070
A5-M5/9	2190075
A5-M6	2190110
A5-M8	2190150
A5-P16	2191510
A5-P22R	2191515
A5-P22R/45	2191518
A60-2M10	2350580
A60-2M12	2350600
A60-2M12-30-38	2350620
A60-2M123038/345	2350621
A60-2M12-40	2350610
A60-2M14	2350660
A60-2M16	2350740
A60-2M16/36	8008380
A60-2M16-35	2350750
A60-2M16-40	2350730
A60-4ESI	2350850
A60B-M10/31	2350033
A60B-M12/31	2350072
A60-L12	2351010
A60-M10	2350030
A60-M12	2350070
A60-M14	2350150
A60-M16	2350190
A60-M20	2350230
A7-2M10	8008441
A7-2M10-25	2201190
A7-2M12	2200998
A7-2M12-25	2200990
A7-2M12-40	2200995
A7-2M8	8008632
A7B-M6/11.5	2200120
A7-L10	2200790
A7-L12	2200830
A7-L6	2200710
A7-L8	2200750
A7-M10	2200190
A7-M12	2200230
A7-M5	2200070
A7-M6	2200110
A7-M8	2200150
A7-P20	2201750
A80-2M12	2360450
A80-2M14	2360510
A80-2M14-40	2360500
A80-2M16	2360605
A80-2M16/41	8008382
A80-2M16-40	2360600
A80-2M16-50	2360610
A80-4ESI	2360850
A80B-2M16-40	2360601
A80-M12	2360030
A80-M14	2360070
A80-M16	2360110
A80-M20	2360150
A9-M10	2210270
A9-M12	2210310
A9-M6/15	2210210
A9-M8	2210230
AA120-M12	2741510
AA120-M14	2741550
AA150-M12	2742030
AA150-M14	2742070
AA16-M8	2740020
AA185-M12	2742510
AA185-M14	2742550
AA240-M12	2743030
AA240-M14	2743070
AA25-M8	2740050
AA300-34-M12	2743205
AA300-34-M14	2743210
AA300-34-M16	2743215
AA300-M16	2743150
AA35-M10	2740075
AA35-M8	2740070
AA400-M16	2743310
AA500-40-M16	2743330
AA50-M12	2740110
AA50-M14	2740150
AA630-M16	2743370
AA70-M12	2740510
AA70-M14	2740550
AA95-M12	2741030
AA95-M14	2741070
AB13	3041530
AB13N	3041531
AB19	3041532
AB19N	3041533
AB28	3041534
AB28N	3041535
AC130-P	2615531
ANE10-M10	2439370
ANE10-M12	2439380
ANE10-M6	2439350
ANE10-M8	2439360
ANE12-M10	2442220
ANE12-M10/19	2442225
ANE12-M12	2442230
ANE12-M6/15	2442200
ANE12-M8	2442210
ANE14-M10	2446430
ANE14-M12	2446440
ANE14-M14	2446450
ANE14-M6	2446410
ANE14-M8	2446420
ANE17-M10	2447260
ANE17-M10/19	2447265
ANE17-M12	2447270
ANE17-M14	2447280
ANE17-M16	2447290
ANE17-M6	2447240
ANE17-M8	2447250
ANE19-M10	2449520
ANE19-M12	2449530
ANE19-M14	2449540
ANE19-M16	2449550
ANE19-M8	2449510
ANE20-M10	2451320
ANE20-M12	2451330
ANE20-M14	2451340
ANE20-M16	2451350
ANE20-M8	2451310
ANE24-M10	2453530
ANE24-M12	2453550
ANE24-M14	2453570
ANE24-M16	2453590
ANE29-M10	2456010
ANE29-M12	2456030
ANE29-M14	2456050
ANE29-M16	2456070
ANE29-M20	2456090
ANE2-M10	2408840
ANE2-M12	2408845
ANE2-M4	2408820
ANE2-M5	2408825
ANE2-M6	2408830
ANE2-M8	2408835
ANE2-P12	2408850
ANE2-U4	2408860
ANE2-U5	2408865
ANE30-M12	2458320
ANE30-M14	2458350
ANE30-M16	2458370
ANE30-M20	2458390
ANE35-M12	2460010
ANE35-M14	2460030
ANE35-M16	2460050
ANE35-M20	2460070
ANE3-M10	2415840
ANE3-M12	2415850
ANE3-M4	2415800
ANE3-M5	2415810
ANE3-M6	2415820
ANE3-M8	2415830
ANE3-P14	2415860
ANE3-U4	2415870
ANE3-U5	2415875
ANE5-M10	2418540
ANE5-M12	2418550
ANE5-M4	2418500
ANE5-M5	2418510
ANE5-M6	2418520
ANE5-M8	2418530
ANE5-P16	2418560
ANE7-M10	2422320
ANE7-M12	2422330
ANE7-M6	2422300
ANE7-M8	2422310
ANE7-P20	2422360
ANE9-M10	2430170
ANE9-M12	2430180
ANE9-M6/15	2430150
ANE9-M8	2430160
ASC30-36-USA/CAN	2598487
ASC145-USA/CA	2598483
ASC145DUO-USA/CA	2598478
ASC55-MULTI8-US	2598518
AU130-150	2615560
AU130-240	2615590
AU150-C	2619910
AU230-130-D	2636960
AU520-130-C	2648230
AU55-50	2672515
AU55-B	2672510
AU55-K	2672512
AWC300	3065402
B1300-CA	2599351
B1300-CA-KV	2599389
B1300L-CA	2599359
B1300L-CA-KV	2599381
B1300PLA	2598541
B1350-CA	2599322
B1350-CA-KV	2599341
B1350L-CA	2599328
B1350L-CA-KV	2599346
B1500A	2599305
B15MA	2599841
B500A	2596211
B500A-KV	2596206
B500NDA	2596221
B550CA	2598975
B68M-P18A	2596164
B70M-P36A	2596031
B70M-P36A-CH	2596040
BA-3	2598424
BCB1-WA	3066006
BCB2-WA	3066008
B-FC470A	2598881
B-FL750A	2598866
B-FL750NDA	2598791
BF-BF5	2053630
BF-BM5	2053660
BF-F405	2053560
BF-F405P	2053565
BF-F408	2053570
BF-F408P	2053575
BF-F608	2053610
BF-F608P	2053620
BF-FM608	2053690
BF-M10	2052390
BF-M12	2052430
BF-M2	2052010
BF-M3	2052030
BF-M3.5	2052070
BF-M3.5/1	2052110
BF-M4	2052150
BF-M5	2052190
BF-M6	2052230
BF-M6/1	2052270
BF-M6/2	2052280
BF-M608	2053650
BF-M608P	2053655
BF-M7	2052310
BF-M8	2052350
BF-P10	2053250
BF-P12	2053290
BF-P8	2053210
BF-PP10	2053320
BF-PP12	2053330
BF-PP12/25	2053370
BF-PP12/29	2053380
BF-PP16/25	2053410
BF-PPL30	2053460
BF-PPL46	2053465
BF-U10	2052910
BF-U12	2052950
BF-U3	2052630
BF-U3.5	2052670
BF-U3.5/1	2052671
BF-U4	2052710
BF-U4/1	2052720
BF-U4/2	2052730
BF-U5	2052750
BF-U5/2	2052765
BF-U6	2052790
BF-U6/1	2052830
BF-U8	2052870
BKF-BF4	2053632
BKF-BM4	2053662

CEMBRE

Type/Code Cross-Reference chart

Type	Code
BKF-F405	2053562
BKF-F405P	2053567
BKF-F408	2053572
BKF-F408P	2053577
BKF-F608	2053612
BKF-F608P	2053622
BKF-FM608	2053692
BKF-M608	2053652
BKF-BF4	2053632
BKF-BM4	2053662
BKF-F405	2053562
BKF-F405P	2053567
BKF-F408	2053572
BKF-F408P	2053577
BKF-F608	2053612
BKF-F608P	2053622
BKF-FM608	2053692
BKF-M608	2053652
BKY-M10	2145874
BKY-M12	2145878
BKY-M3	2145842
BKY-M3.5	2145845
BKY-M3.5/1	2145847
BKY-M4	2145853
BKY-M5	2145856
BKY-M6/1	2145862
BKY-M8	2145871
BKY-P10	2145932
BKY-P12	2145934
BKY-P8	2145930
BKY-PP12	2145940
BKY-PP12/25	2145942
BKY-PP16/23	2145944
BKY-PPL30	2145950
BKY-PPL46	2145952
BKY-U3	2145900
BKY-U3.5	2145903
BKY-U4	2145906
BKY-U5	2145909
BKY-U6	2145912
BKY-U6/1	2145914
BL12HKS	3065040
BL6HKS	3065042
BLC250	3065390
BN-BS	2469720
BN-FA608	3031640
BN-FAB608	3031660
BN-FAR608	3031680
BN-MA608	3031740
BP-M10	2046345
BP-M12	2046350
BP-M2	2046305
BP-M3	2046310
BP-M3.5	2046315
BP-M3.5/1	2046316
BP-M4	2046320
BP-M5	2046325
BP-M6	2046330
BP-M6/1	2046331
BP-M6/2	2046332
BP-M7	2046335
BP-M8	2046340
BP-P10	2046415
BP-P12	2046420
BP-P8	2046410
BP-PP12	2046440
BP-PP12/25	2046445
BP-PP12/29	2046450
BP-PP16/25	2046455
BP-PPL30	2046470
BP-PPL46	2046475
BP-U10	2046565
BP-U12	2046570
BP-U3	2046510
BP-U3.5	2046515
BP-U3.5/1	2046516
BP-U4	2046530
BP-U4/1	2046531
BP-U4/2	2046540
BP-U5	2046545
BP-U6	2046555
BP-U6/1	2046556
BP-U8	2046560

Type	Code
BSCL1	2489535
BSCL1/0	2489540
BSCL2	2489530
BSCL2/0	2489545
BSCL250	2489560
BSCL3	2489525
BSCL3/0	2489550
BSCL300	2489565
BSCL350	2489570
BSCL4	2489520
BSCL4/0	2489555
BSCL400	2489575
BSCL500	2489580
BSCL6	2489515
BSCL600	2489585
BSCL750	2489590
BSCL8	2489510
B-TC250YA	2596261
B-TC250YNDA	2599521
B-TC320NDA	2596286
B-TC320NDFA	2596291
B-TC4500A	2599417
B-TC450A	2599406
B-TC500A	2598828
B-TC500ND-SCA	2596302
B-TC500YA	2598816
B-TC550A	2599421
B-TC650A	2599441
B-TC650-SCA	2599431
B-TC950A	2599461
B-TD270A	2598952
B-TD410TA	2598946
C1/0-12	2396280
C1/0-14	2396220
C1/0-38	2396260
C1/0-516	2396240
C1/0-58	2396320
C1/0-916	2396300
C10-C10	2490070
C10-C10ST	2492070
C1-12	2396080
C1-14	2396020
C120-C120	2490630
C120-C120ST	2492630
C1-38	2396060
C150-C120	2490670
C150-C120ST	2492670
C150-C150	2490690
C150-C150ST	2492690
C1-516	2396040
C16-C16	2490110
C16-C16ST	2492110
C185-C185	2490745
C185-C185ST	2492745
C185-C95	2490710
C185-C95ST	2492710
C2/0-12	2396480
C2/0-14	2396420
C2/0-34	2396540
C2/0-38	2396460
C2/0-516	2396440
C2/0-58	2396520
C2/0-916	2396500
C2-10	2395820
C2-12	2395900
C2-14	2395840
C2-38	2395880
C240-C120	2490760
C240-C120ST	2492760
C250-12	2397080
C250-14	2397020
C250-34	2397140
C250-38	2397060
C250-516	2397040
C250-58	2397120
C250-78	2397160
C250-916	2397100
C2-516	2395860
C25-C10	2490150
C25-C10ST	2492150
C25-C25	2490190
C25-C25ST	2492190
C3/0-12	2396680

Type	Code
C3/0-14	2396620
C3/0-34	2396740
C3/0-38	2396660
C3/0-516	2396640
C3/0-58	2396720
C3/0-916	2396700
C300-12	2397360
C300-34	2397420
C300-38	2397340
C300-516	2397320
C300-58	2397400
C300-78	2397440
C300-916	2397380
C3-10	2395640
C3-12	2395720
C3-14	2395660
C3-38	2395700
C350-12	2397540
C350-34	2397600
C350-38	2397520
C350-58	2397580
C350-78	2397620
C350-916	2397560
C3-516	2395680
C35-C16	2490230
C35-C16ST	2492230
C35-C35	2490270
C35-C35ST	2492270
C3-8	2395620
C4/0-12	2396880
C4/0-14	2396820
C4/0-34	2396940
C4/0-38	2396860
C4/0-516	2396840
C4/0-58	2396920
C4/0-916	2396900
C400-12	2397740
C400-34	2397800
C400-38	2397720
C400-58	2397780
C400-78	2397820
C400-916	2397760
C4-10	2395440
C4-12	2395520
C4-14	2395460
C4-38	2395500
C4-516	2395480
C4-8	2395420
C500-12	2397940
C500-34	2398000
C500-38	2397920
C500-58	2397980
C500-78	2398020
C500-916	2397960
C50-C25	2490350
C50-C25ST	2492350
C50-C50	2490390
C50-C50ST	2492390
C600-12	2398120
C600-34	2398180
C600-58	2398160
C600-78	2398200
C600-916	2398140
C6-10	2395240
C6-12	2395320
C6-14	2395260
C6-38	2395300
C6-516	2395280
C6-8	2395220
C6-C6	2490030
C6-C6ST	2492030
C70-C25N	2490310
C70-C25N-ST	2492310
C70-C35	2490430
C70-C35ST	2492430
C70-C70	2490470
C70-C70ST	2492470
C750-12	2398320
C750-34	2398380
C750-58	2398360
C750-78	2398400
C8-10	2395040
C8-12	2395120

Type	Code
C8-14	2395060
C8-38	2395100
C8-516	2395080
C8-8	2395020
C95-C35	2490510
C95-C35ST	2492510
C95-C70	2490550
C95-C70ST	2492550
C95-C95	2490590
C95-C95ST	2492590
CA150R-2M14	2533010
CA150R-M12	2532810
CA150R-M14	2532850
CA150S-2M14	2533330
CA150S-M12	2533210
CA150S-M14	2533250
CA200R-2M14	2533570
CA200R-M14	2533530
CA240R-2M14	2533850
CA240R-M14	2533770
CA25-2M12	2530210
CA25-2M8	2530130
CA25-M10	2530050
CA25-M12	2530090
CA25-M8	2530010
CA315R-2M14	2534430
CA315R-M14	2534330
CA315S-2M14	2534610
CA315S-M14	2534530
CA40S-2M12	2530510
CA40S-M12	2530450
CA40S-M16	2530490
CA50R-2M12	2530870
CA50R-M12	2530790
CA50S-2M12	2531190
CA50S-M12	2531110
CA50S-M16	2531150
CA70-M12	2531870
CA70S-2M12	2531510
CA70S-M12	2531430
CA70S-M16	2531470
CA95R-2M14	2532230
CA95R-M12	2532150
CA95R-M14	2532190
CA95S-2M14	2532610
CA95S-M12	2532450
CA95S-M14	2532490
CA95S-M16	2532500
CAA10-M12	2760005
CAA120-M12	2760310
CAA150-M12	2760350
CAA16-M12	2760012
CAA185-M12	2760430
CAA240-M12	2760590
CAA25-M12	2760030
CAA300-34-M12	2760680
CAA300-34-M14	2760690
CAA300-34-M16	2760715
CAA300-M16	2760710
CAA35-M12	2760070
CAA400-M16	2760750
CAA500-M16-TNBD	2760852
CAA50-M12	2760110
CAA630-4M8	2760950
CAA70-M12	2760150
CAA95-M12	2760190
CB1430H	2598502
CB1430L	2598494
CB1820L	2598495
CB1852L	2598514
CB3662L	2870229
CB9630H	2598504
CBL01	3066010
CBL02-WA	3066032
CBL03-WA	3066033
CBL04-WA	3066034
CBL05-WA	3066035
CBL06A	3066036
CBL07A	3066037
CBP-F405	2076535
CBP-F408	2076540
CBP-F408P	2076543
CBP-F608	2076545

Type	Code
CBP-F608P	2076550
CBP-M3	2076310
CBP-M3.5	2076315
CBP-M3.5/1	2076320
CBP-M4	2076325
CBP-M5	2076335
CBP-M6	2076340
CBP-M6/1	2076345
CBP-M608	2076560
CBP-M7	2076350
CBP-M8	2076355
CBP-P10	2076455
CBP-P12	2076460
CBP-P8	2076450
CBP-PP12	2076480
CBP-PP12/25	2076490
CBP-PPL30	2076498
CBP-U3	2076380
CBP-U3.5	2076385
CBP-U4	2076395
CBP-U4/1	2076400
CBP-U4/2	2076405
CBP-U4/3L	2076408
CBP-U5	2076410
CBP-U6	2076415
CC8.9	3041630
CC9.12	3041632
CFA2-600	3031942
CFA300	3031900
CFA400	3031914
CFA600	3031928
CFAB600	3031970
CFAR600	3031956
CFC120YN	2598491
CGP-F608	2076845
CGP-F608P	2076850
CGP-M10	2076670
CGP-M3	2076610
CGP-M3.5	2076615
CGP-M4	2076625
CGP-M5	2076635
CGP-M6	2076640
CGP-M6/1	2076645
CGP-M608	2076860
CGP-M7	2076650
CGP-M8	2076660
CGP-M8/1	2076665
CGP-P10	2076755
CGP-P12	2076760
CGP-P14	2076765
CGP-PP12	2076780
CGP-PP17	2076790
CGP-U3.5	2076685
CGP-U4	2076695
CGP-U5	2076710
CGP-U6	2076715
CINV12-110IC	8500550
CL1/0-10	2396385
CL1/0-12	2396397
CL1/0-38	2396394
CL1/0-516	2396391
CL1/0-D14	2396360
CL1/0-D141	2396361
CL1/0-D38	2396370
CL1/0-DN	2396375
CL1/0IH-10	2396405
CL1/0IH-12	2396413
CL1/0IH-38	2396411
CL1/0IH-516	2396409
CL1-10	2396183
CL1-12	2396191
CL1-516	2396187
CL1-D14	2396160
CL1-D141	2396161
CL1-D38	2396170
CL1-DN	2396175
CL1IH-10	2396205
CL1IH-12	2396217
CL1IH-516	2396211
CL2/0-12	2396594
CL2/0-38	2396591
CL2/0-D14	2396560
CL2/0-D141	2396561

Type/Code Cross-Reference chart

Type	Code
CL2/0-D38	2396570
CL2/0-DN	2396575
CL2/0IH-12	2396611
CL2/0IH-38	2396609
CL2-10	2395985
CL2-12	2395997
CL2-14	2395988
CL250-12	2397204
CL250-D38	2397180
CL250-DN	2397185
CL250IH-12	2397229
CL2-516	2395991
CL2-D14	2395960
CL2-D141	2395961
CL2-D38	2395970
CL2-DN	2395975
CL2-DN38	2395971
CL2IH-10	2396005
CL2IH-12	2396017
CL2IH-14	2396008
CL2IH-516	2396011
CL3/0-12	2396794
CL3/0-D141	2396761
CL3/0-D38	2396770
CL3/0-DN	2396775
CL3/0IH-12	2396811
CL300-12	2397491
CL300-D38	2397470
CL300-DN	2397475
CL300IH-12	2397509
CL3-12	2395797
CL3-14	2395788
CL3-38	2395794
CL350-12	2397688
CL350-D141	2397661
CL350-D38	2397670
CL350-DN	2397675
CL350IH-12	2397708
CL3-516	2395791
CL3-D38	2395770
CL3-DN	2395775
CL3IH-12	2395817
CL3IH-14	2395808
CL3IH-38	2395814
CL3IH-516	2395811
CL4/0-12	2396994
CL4/0-38	2396991
CL4/0-D141	2396961
CL4/0-D38	2396970
CL4/0-DN	2396975
CL4/0-DN38	2396971
CL4/0IH-12	2397011
CL4/0IH-38	2397009
CL400-12	2397888
CL400-58	2397894
CL400-D141	2397861
CL400-D38	2397870
CL400-DN	2397875
CL400IH-12	2397908
CL400IH-58	2397914
CL4-10	2395585
CL4-12	2395597
CL4-14	2395588
CL4-38	2395594
CL4-D14	2395560
CL4-D141	2395561
CL4-D38	2395570
CL4-DN	2395575
CL4IH-10	2395605
CL4IH-12	2395617
CL4IH-14	2395608
CL4IH-38	2395614
CL500-12	2398088
CL500-58	2398094
CL500-D141	2398061
CL500-D38	2398070
CL500-DN	2398075
CL500IH-12	2398108
CL500IH-58	2398114
CL600-12	2398285
CL600-58	2398291
CL600-D38	2398270
CL600-DN	2398275
CL600IH-12	2398305
CL600IH-58	2398311
CL6-10	2395385
CL6-12	2395397
CL6-14	2395388
CL6-D14	2395360
CL6-D141	2395361
CL6-D38	2395370
CL6-DN	2395375
CL6IH-10	2395405
CL6IH-12	2395417
CL6IH-14	2395408
CL750-12	2398485
CL750-58	2398488
CL750-D38	2398470
CL750-DN	2398475
CL750-DN38	2398471
CL750IH-12	2398505
CL750IH-58	2398508
CL8-10	2395183
CL8-14	2395186
CL8-38	2395192
CL8-D14	2395160
CL8-D141	2395161
CL8-D38	2395170
CL8IH-10	2395203
CL8IH-14	2395206
CL8IH-38	2395212
CM02	3065952
CMA600	3031984
CP1096	2597700
CP1120	2597962
CP1131	2610120
CPC100-8	3065328
CPE-1-110	2592752
CPKC7508	2808650
CPKD108	2808582
CPKD1508	2808587
CPKD2508	2808592
CPKD508	2808573
CPKD7508	2808578
CPP-0	2592671
CPU1131-C	2610150
CPU1230-3D	2630200
CPW500	3065395
CRP-F305	2076225
CRP-F308	2076230
CRP-F405	2076235
CRP-F405P	2076237
CRP-F408	2076240
CRP-F408P	2076242
CRP-F608	2076245
CRP-F608P	2076250
CRP-M3	2076010
CRP-M3.5	2076015
CRP-M3.5/1	2076020
CRP-M4	2076025
CRP-M4/3	2076030
CRP-M5	2076035
CRP-M6	2076040
CRP-M6/1	2076045
CRP-M608	2076260
CRP-M7	2076050
CRP-M8	2076055
CRP-P10	2076155
CRP-P12	2076160
CRP-P8	2076150
CRP-PP12	2076180
CRP-PP12/1	2076185
CRP-PP12/23	2076190
CRP-PP14	2076195
CRP-PPL30	2076205
CRP-U3	2076080
CRP-U3.5	2076085
CRP-U3.5/2	2076090
CRP-U4	2076095
CRP-U4/1	2076100
CRP-U4/2	2076105
CRP-U5	2076110
CRP-U6	2076115
CRP-U6/1	2076120
CRP-U8	2076125
CRH12	3065660
CS-CPE-1	2592748
CTBB1	3065022
CTBP1	3064985
CTSB1	3065020
CVB-001	2593300
CVB-007	2593295
CVB-010	2593298
CVB-011	2593299
CVB-013	2593294
CVB-031	2593312
CVB-037	2593315
CW100	3065416
CW110	3065418
CW130	3065420
CW140	3065422
CW150	3065424
CW170	3065426
CW180	3065428
CW190	3065430
CW220	3065432
CW240	3065434
CW270	3065436
CW300	3065438
CW320	3065440
CW60	3065410
CW70	3065412
CW80	3065414
DB100-13/2	2843724
DB100-13/4	2843744
DB100-6/2	2843722
DB100-6/4	2843742
DB125-10/4	2843747
DB125-10/4C	2843787
DB125-14/2	2843726
DB125-14/2C	2843782
DB125-14/4	2843748
DB125-14/4C	2843788
DB125-6/2	2843725
DB125-6/4	2843746
DB125-7/1N	2843703
DB160-11/4	2843750
DB160-7/1N	2843705
DB250-11/1N	2843707
DB400-11/1N	2843709
DB40-11/4	2843740
DB40-15/2	2843720
DB500-11/1N	2843711
DB80-6/1N	2843701
DC24SC	8502005
DJ160	2843697
DK120-2M12-51AS	2830096
DK120-M12	2830086
DK50-M12	2830080
DK70-2M12-51AS	2830092
DK70-M12	2830082
DK95-2M12-51AS	2830094
DK95-M12	2830084
DNB125-9	2843690
DNB160-10	2843692
DR10-10	2388015
DR10-5	2388000
DR10-6	2388005
DR10-8	2388010
DR120-2M12-51AS	2388999
DR120-10	2388460
DR120-12	2388470
DR120-16	2388490
DR120-20	2388500
DR120-8	2388450
DR150-10	2388530
DR150-12	2388540
DR150-16	2388560
DR150-20	2388570
DR16-10	2388050
DR16-12	2388060
DR16-5	2388025
DR16-6	2388030
DR16-8	2388040
DR185-10	2388600
DR185-12	2388610
DR185-16	2388620
DR240-10	2388710
DR240-12	2388720
DR240-16	2388730
DR240-20	2388740
DR25-10	2388130
DR25-12	2388140
DR25-16	2388160
DR25-6	2388110
DR25-8	2388120
DR300-10	2388780
DR300-12	2388790
DR300-16	2388810
DR300-20	2388820
DR35-10	2388230
DR35-12	2388240
DR35-16	2388246
DR35-6	2388210
DR35-8	2388220
DR400-12	2388870
DR400-16	2388890
DR400-20	2388900
DR500-12	2388950
DR500-16	2388970
DR500-20	2388980
DR50-10	2388260
DR50-12	2388270
DR50-14	2388280
DR50-16	2388290
DR50-6	2388250
DR50-8	2388255
DR625-16	2389050
DR625-20	2389060
DR6-5	2387910
DR6-6	2387920
DR6-8	2387930
DR70-2M12-51AS	2388995
DR70-10	2388330
DR70-12	2388340
DR70-14	2388350
DR70-16	2388360
DR70-20	2388380
DR70-8	2388320
DR95-2M12-51AS	2388997
DR95-10	2388395
DR95-12	2388400
DR95-14	2388410
DR95-16	2388420
DR95-20	2388430
DR95-8	2388390
DSC12-100L	3065680
DSC12-170L	3065685
DSC12-190L	3065687
DSC12-240L	3065689
DSC12-300L	3065691
DSC12-320L	3065693
DSV10	2489015
DSV1000	2489095
DSV120	2489050
DSV150	2489055
DSV16	2489020
DSV185	2489060
DSV240	2489065
DSV25	2489025
DSV300	2489070
DSV35	2489030
DSV400	2489075
DSV50	2489035
DSV500	2489080
DSV6	2489010
DSV625	2489085
DSV70	2489040
DSV800	2489090
DSV95	2489045
EBC12-250	3065668
ECW-H3D	2630073
ELB-3Y	2598421
EPB-1N	2598453
ERCH	2596112
ERCH-WH	2596114
ES03-BK	2470470
ES03-BR	2470450
ES03-BU	2470410
ES03-GY	2470430
ES03-RE	2470510
ES03-YE	2470550
ES06-BK	2470471
ES06-BR	2470451
ES06-BU	2470411
ES06-GY	2470431
ES06-RE	2470511
ES06-YE	2470551
ES10-BK	2470476
ES10-BR	2470456
ES10-BU	2470416
ES10-GY	2470436
ES10-RE	2470516
ES10-YE	2470556
ES14-BK	2470477
ES14-BR	2470457
ES14-BU	2470417
ES14-GY	2470437
ES14-RE	2470517
ES14-YE	2470557
ES19-BK	2470478
ES19-BR	2470458
ES19-BU	2470418
ES19-GY	2470438
ES19-RE	2470518
ES19-YE	2470558
ES1-BK	2470472
ES1-BR	2470452
ES1-BU	2470412
ES1-GY	2470432
ES1-RE	2470512
ES1-YE	2470552
ES24-BK	2470479
ES24-BR	2470459
ES24-BU	2470419
ES24-GY	2470439
ES24-RE	2470519
ES24-YE	2470559
ES2-BK	2470473
ES2-BR	2470453
ES2-BU	2470413
ES2-GY	2470433
ES2-RE	2470513
ES2-YE	2470553
ES30-BK	2470480
ES30-BR	2470460
ES30-BU	2470420
ES30-GY	2470440
ES30-RE	2470520
ES30-YE	2470560
ES37-BK	2470481
ES37-BR	2470461
ES37-BU	2470421
ES37-GY	2470441
ES37-RE	2470521
ES37-YE	2470561
ES3-BK	2470474
ES3-BR	2470454
ES3-BU	2470414
ES3-GY	2470434
ES3-RE	2470514
ES3-YE	2470554
ES40-BK	2470482
ES40-BR	2470462
ES40-BU	2470422
ES40-GY	2470442
ES40-RE	2470522
ES40-YE	2470562
ES48-BK	2470483
ES48-BR	2470463
ES48-BU	2470423
ES48-GY	2470443
ES48-RE	2470523
ES48-YE	2470563
ES5-BK	2470475
ES5-BR	2470455
ES5-BU	2470415
ES5-GY	2470435
ES5-RE	2470515
ES5-YE	2470555
ES80-BK	2470484
ES80-BR	2470464
ES80-BU	2470424
ES80-GY	2470444
ES80-RE	2470524

Type/Code Cross-Reference chart

Type	Code
ES80-YE	2470564
F050-WE	8420033
F075-WE	8420032
F2.5-WE	8420034
FD11	3017354
FD13.5	3017356
FD16	3017358
FD21	3017360
FD29	3017362
FD36	3017364
FD42	3017366
FD48	3017368
FD7	3017350
FD9	3017352
FDM12	3017375
FDM16	3017374
FDM20	3017377
FDM25	3017379
FDM32	3017381
FDM40	3017383
FDM50	3017385
FDM63	3017387
FL10-150	2510070
FL10-150-ST	2518510
FL10-200	2510150
FL10-200-ST	2518550
FL10-250	2510190
FL10-250-ST	2518590
FL16-150	2510470
FL16-150-ST	2518870
FL16-200	2510550
FL16-200-ST	2518910
FL16-250	2510590
FL16-250-ST	2518950
FL16-320	2510670
FL16-320-ST	2518990
FL16-350	2510690
FL16-350-ST	2519030
FL16-420	2510710
FL16-420-ST	2519070
FL16-570	2510750
FL16-570-ST	2519150
FL16-660	2510790
FL16-660-ST	2519170
FL25-150	2510950
FL25-150-ST	2519530
FL25-200	2511070
FL25-200-ST	2519570
FL25-250	2511110
FL25-250-ST	2519610
FL25-300	2511190
FL25-300-ST	2519690
G100X2.5	3041710
G100X2.5/M	3041712
G100X2.5N	3041711
G100X2.5N/M	3041713
G1020X9.0	3041910
G1020X9.0N	3041911
G1030X12.6	3041950
G1030X12.6N	3041951
G120X2.5	3041715
G120X2.5N	3041716
G120X3.6	3041745
G120X3.6N	3041746
G120X4.8	3041785
G120X4.8N	3041786
G1220X9.0	3041915
G1220X9.0N	3041916
G140X2.5	3041720
G140X2.5/M	3041722
G140X2.5N	3041721
G140X2.5N/M	3041723
G140X3.6	3041750
G140X3.6/M	3041753
G140X3.6N	3041751
G140X3.6N/M	3041752
G150X3.6	3041755
G150X3.6N	3041756
G150X7.6	3041845
G150X7.6N	3041846
G160X2.5	3041725
G160X2.5/M	3041727
G160X2.5N	3041726
G160X2.5N/M	3041728
G160X4.8	3041790
G160X4.8N	3041791
G180X3.6	3041760
G180X3.6N	3041761
G190X4.8	3041795
G190X4.8/M	3041797
G190X4.8N	3041796
G190X4.8N/M	3041798
G200X2.5	3041730
G200X2.5/M	3041732
G200X2.5N	3041731
G200X2.5N/M	3041733
G200X3.6	3041765
G200X3.6/M	3041767
G200X3.6N	3041766
G200X3.6N/M	3041768
G200X4.8	3041800
G200X4.8/M	3041802
G200X4.8N	3041801
G200X4.8N/M	3041803
G200X7.6	3041850
G200X7.6N	3041851
G230X12.6	3041920
G230X12.6N	3041921
G250X2.8	3041735
G250X2.8N	3041736
G250X3.6	3041770
G250X3.6N	3041771
G250X4.8	3041805
G250X4.8/M	3041807
G250X4.8N	3041806
G250X4.8N/M	3041808
G250X7.6	3041855
G250X7.6N	3041856
G280X4.8	3041810
G280X4.8N	3041811
G300X2.8	3041740
G300X2.8N	3041741
G300X3.6	3041775
G300X3.6/M	3041777
G300X3.6N	3041776
G300X3.6N/M	3041778
G300X4.8	3041815
G300X4.8N	3041816
G300X7.6	3041860
G300X7.6N	3041861
G370X3.6	3041780
G370X3.6N	3041781
G370X4.8	3041820
G370X4.8N	3041821
G370X7.6	3041865
G370X7.6N	3041866
G380X12.6	3041925
G390X4.8	3041825
G390X4.8N	3041826
G430X4.8	3041830
G430X4.8N	3041831
G430X7.6	3041870
G430X7.6N	3041871
G430X9.0	3041880
G430X9.0N	3041881
G450X4.8	3041835
G450X4.8N	3041836
G480X12.6	3041930
G480X12.6N	3041931
G530X4.8	3041840
G530X4.8N	3041841
G530X7.6	3041875
G530X7.6N	3041876
G530X9.0	3041885
G530X9.0N	3041886
G580X12.6	3041935
G580X12.6N	3041936
G710X9.0	3041890
G710X9.0N	3041891
G730X12.6	3041940
G730X12.6N	3041941
G780X9.0	3041895
G780X9.0N	3041896
G80X2.4	3041700
G80X2.4/M	3041702
G80X2.4N	3041701
G80X2.4N/M	3041703
G830X9.0	3041900
G830X9.0N	3041901
G880X12.6	3041945
G880X12.6N	3041946
G90X2.4	3041705
G90X2.4N	3041706
G920X9.0	3041905
G920X9.0N	3041906
GA-3	2598429
GF-F608	2055630
GF-F608P	2055650
GF-M10	2054250
GF-M10/1	2054290
GF-M12	2054330
GF-M14	2054370
GF-M16	2054410
GF-M3	2054010
GF-M3.5	2054030
GF-M4	2054070
GF-M5	2054110
GF-M6	2054150
GF-M6/1	2054160
GF-M608	2055670
GF-M7	2054170
GF-M8	2054210
GF-M8/1	2054220
GF-P10	2055310
GF-P12	2055350
GF-P14	2055370
GF-PP12	2055390
GF-PP17	2055430
GF-PPL46	2055465
GF-U10	2054810
GF-U10/1	2054850
GF-U12	2054890
GF-U14	2054930
GF-U16	2054970
GF-U3.5	2054610
GF-U4	2054650
GF-U5	2054690
GF-U6	2054730
GF-U8	2054770
GFH100X2.5	3042810
GFHT112X2.5	3042805
GH8	3041550
GK-F608	2145500
GK-F608P	2145502
GKF-M608	2055672
GKY-M10	2145997
GKY-M12	2146000
GKY-M14	2146003
GKY-M16	2146006
GKY-M3.5	2145982
GKY-M4	2145985
GKY-M5	2145988
GKY-M6	2145991
GKY-M8	2145994
GKY-P14	2146040
GKY-PP12	2146045
GKY-PP17	2146047
GKY-PPL46	2146055
GKY-U3.5	2146020
GKY-U4	2146023
GKY-U5	2146026
GKY-U6	2146029
GKY-U8	2146032
GP-M10	2046645
GP-M10/1	2046646
GP-M12	2046650
GP-M14	2046655
GP-M16	2046660
GP-M3	2046610
GP-M3.5	2046615
GP-M4	2046620
GP-M5	2046625
GP-M6	2046630
GP-M6/1	2046631
GP-M7	2046635
GP-M8	2046640
GP-M8/1	2046641
GP-P10	2046715
GP-P12	2046720
GP-P14	2046725
GP-PP12	2046740
GP-PP17	2046750
GP-PPL46	2046755
GP-U10	2046865
GP-U10/1	2046866
GP-U12	2046870
GP-U14	2046875
GP-U16	2046880
GP-U3.5	2046825
GP-U4	2046830
GP-U5	2046845
GP-U6	2046855
GP-U8	2046860
GR100X7.6N	3042620
GR120X7.6N	3042625
GR150X7.6N	3042630
GR200X7.6N	3042635
GR250X7.6N	3042640
GR300X7.6N	3042645
GR370X7.6N	3042650
GX1020X7.9	3042270
GX200X4.5	3042245
GX300X4.5	3042250
GX370X4.5	3042255
GX370X7.9	3042260
GX520X4.5	3042257
GX680X7.9	3042265
GXAC125X4.6	3042310
GXAC150X4.6	3042312
GXAC200X4.6	3042314
GXAC200X7.9	3042350
GXAC260X4.6	3042316
GXAC290X4.6	3042318
GXAC290X7.9	3042352
GXAC360X4.6	3042320
GXAC360X7.9	3042354
GXAC520X4.6	3042322
GXAC520X7.9	3042356
GXAC680X4.6	3042324
GXAC680X7.9	3042358
GXAC840X4.6	3042326
GXAC840X7.9	3042360
H120-H120	2490914
H120-H120ST	2490915
H70-H70	2490910
H70-H70ST	2490911
H95-H95	2490912
H95-H95ST	2490913
HB10	2591337
HB11	2591343
HB12N	2591345
HB13UE	2591347
HB14	2591212
HB15	2591214
HB18	3065050
HB2	2591308
HB40-U	8060035
HB5	2591318
HB6	2591285
HB7	2591310
HB8	2591284
HB9	2591336
HKS12	3065032
HKS6	3065030
HMR300	3065055
HMR500W	3065057
HF1	2590900
HF2	2590905
HN1	2590300
HN5	2590291
HN-A25	2590401
HN-D25	2590403
HNKE16	2590329
HNKE4	2590299
HNKE50	2590342
HNN3	2590296
HNN4	2590292
HP1	2590500
HP3	2590531
HP3-1	2590532
HP4-B	2590032
HP4-C10	2590040
HP4-G	2590033
HP4-R	2590031
HP5	2590509
HPH1	2590029
HT120	2610420
HT120-KV	2610430
HT131-C	2610416
HT131LN-C	2610419
HT131-UC	2610436
HT45-E	2650040
HT51	2670610
HT51-KV	2670611
HT-FL74	2665028
HT-FL75	2665030
HT-TC026Y	2591408
HT-TC041N	2591427
HT-TC051Y	2591475
HT-TC065	2591477
HT-TC0851	2591496
HWE1N	2590910
HX1	2590298
IDT	2590920
KA12-38	3065736
KA14-38	3065734
KA38-12	3065730
KA38-14	3065732
KAK9	3065280
KCW12	3065295
KCW16	3065297
KE0.75-1	2591050
KE10-1	2591049
KE1016ST	2803150
KE106ST	2802310
KE110ST	2802390
KE1508ST	2802510
KE1510ST	2802550
KE16-15	2599861
KE1616ST	2803190
KE1A-3	2598430
KE2.5-1	2591048
KE2.5A-3	2598432
KE25015ST	2803455
KE25018ST	2803460
KE2508ST	2802670
KE2510ST	2802710
KE35015ST	2803475
KE35018ST	2803480
KE35-15	2599862
KE410ST	2802870
KE412ST	2802910
KE4-15	2599860
KE506ST	2802030
KE508ST	2802070
KE610ST	2802990
KE612ST	2803030
KE616ST	2803070
KE7506ST	2802110
KE7508ST	2802150
KE16-WE	8420015
KE35-WE	8420031
KE6-WE	8420030
KIT-CTBB1-1	3065007
KIT-CTBB1-5	3065014
KIT-CTBP1-1	3064979
KIT-CTSB1-1	3065005
KIT-CTSB1-3	3065009
KIT-CTSB1-L	3064998
KIT-TRL02-1	3064995
KIT-TRL02-2	3064996
KIT-VAL-GPT-1	3065003
KIT-VAL-GPTA-1	3065001
KIT-VAL-GPTA-2	3065002
KIT-VAL-GPTA-L	3064999
KIT-VAL-GPTP-1	3064978
KIT-VAL-GPTP-2	3064977
KIT-2.5-EPB1N	2598463
KIT-4-EPB1N	2598464
KRK4	3065290
KRS47	3065198
KSDC7-KV	3065190
KT1	2591319
KT2	2591320
KT3N	2591276

Type/Code Cross-Reference chart

Type	Code
KT4N	2591278
KT5	2591279
KTS1632	2590700
L03-M	2480020
L03-P	2485010
L06-M	2480050
L06-P	2485040
L100-M	2480930
L10-M	2480330
L10-P	2485270
L10-T	2486820
L120-M	2481010
L120-T	2486890
L14-M	2480410
L14-P	2485350
L150-T	2486900
L160-M	2481050
L16-T	2486830
L185-T	2486910
L19-M	2480490
L19-P	2485430
L1-M	2480090
L1-P	2485070
L200-M	2481090
L240-T	2486920
L24-M	2480570
L24-P	2485510
L25-T	2486840
L2-M	2480130
L2-P	2485100
L300-T	2486930
L30-M	2480650
L30-P	2485590
L35-T	2486850
L37-M	2480730
L37-P	2485670
L3-M	2480170
L3-P	2485130
L400-T	2486940
L48-M	2480810
L48-P	2485680
L4-T	2486805
L50-T	2486860
L5-M	2480210
L5-P	2485160
L60-M	2480850
L60-P	2485690
L6-T	2486810
L70-T	2486870
L7-M	2480250
L7-P	2485190
L80-M	2480890
L95-T	2486880
LVL150	3065310
LVL200	3065312
LVL400	3065314
M108.215-U	2603723
M108-520	2648752
M108-C	2611860
M110-520	2648754
M113	2651130
M113.173-U	2603730
M113-50	2675855
M113-C	2611870
M118	2651150
M118.158-U	2603725
M118-50	2675860
M118-C	2611910
M140	2651170
M140.190-U	2603800
M140-50	2675870
M140-C	2612010
M145-520	2648770
M158	2651200
M158-50	2675880
M158-C	2612130
M160-520	2648771
M173	2651210
M173-50	2675890
M173-C	2612230
M173L-C	2612240
M190-50	2675900
M190-520	2648772
M190-C	2612330
M208-C	2612420
M208-U	2603780
M215-50	2675910
M215-520	2648773
M215-C	2612490
M220-520	2648774
M232-C	2612590
M255-520	2648776
M295-520	2648780
M320-C	2612990
M340-520	2648784
M440-520	2648840
M540-520	2648910
M70	2651090
M70.140-U	2603710
M70-50	2675800
M70-C	2611590
M75	2651100
M75.96-U	2603715
M75-50	2675805
M75-C	2611650
M96	2651110
M96-50	2675850
M96-C	2611800
MA03/3-15	2599870
MA1	2650110
MA10	2650190
MA10.19-U	2600290
MA100-3D	2631790
MA100-520	2645690
MA10-50	2675666
MA10-C	2610860
MA12.20-U	2600310
MA120-3D	2631810
MA120-520	2645711
MA12-50	2675668
MA12-C	2610870
MA14-50	2675670
MA14-C	2610880
MA1-50	2675658
MA160-520	2645731
MA17-50	2675672
MA17-C	2610890
MA19-50	2675674
MA19-C	2610900
MA19-U	2600320
MA2.3	2650130
MA2.3-50	2675660
MA200-520	2645750
MA20-50	2675675
MA20-C	2610910
MA24-50	2675676
MA24-C	2610920
MA24-U	2600330
MA29-80-U	2600360
MA29-C	2610930
MA2-C	2610810
MA3.5-U	2600210
MA30-80-U	2600380
MA30-C	2610940
MA35-C	2610950
MA35-U	2600390
MA37-C	2610960
MA37-U	2600410
MA3-C	2610820
MA40-C	2610970
MA40-U	2600430
MA48-C	2610980
MA48-U	2600450
MA5	2650150
MA5-50	2675662
MA5-C	2610830
MA60-C	2610990
MA7	2650170
MA7.14-U	2600250
MA7-50	2675664
MA7-C	2610840
MA80-3D	2631770
MA80-520	2645671
MA9	2650180
MA9.17-U	2600270
MA9-50	2675665
MA9-C	2610850
MB2-80-U	2604350
MB3-80-U	2604400
MBS50-240NC	2777035
MC0	2650490
MC0.2-U	2603550
MC0-U	2603510
MC10	2650530
MC10-50	2675610
MC10-C	2611100
MC10-U	2600610
MC185-3D	2632030
MC185-C	2611150
MC2	2650500
MC240-3D	2632035
MC25	2650550
MC25-50	2675620
MC25-C	2611110
MC25-U	2600650
MC3-WE	8420018
MC35	2650570
MC35-50	2675630
MC35-C	2611120
MC35-U	2600690
MC4-WE	8420019
MC6	2650510
MC6.25-U	2600630
MC6-50	2675605
MC70-3D	2632010
MC70-50	2675640
MC70-80-U	2600720
MC70-C	2611130
MC95-3D	2632020
MC95-80-U	2600730
MC95-C	2611140
MCCC16-C	2617050
MCCC25-C	2617070
MCCC35-C	2617090
MCCC50-C	2617110
MCS4-15	2599868
ME03/2-15	2599875
ME1	2652010
ME10	2652130
ME10.14-C	2614212
ME10.24-U	2604830
ME100-3D	2634940
ME100-520	2648552
ME10-50	2676060
ME10-C	2614211
ME12	2652150
ME12.17-U	2604850
ME120-3D	2634950
ME120-520	2648554
ME12-50	2676070
ME12-C	2614213
ME14	2652170
ME14.16-C	2614216
ME14-50	2676080
ME14-C	2614215
ME1-50	2676005
ME160-520	2648556
ME17	2652190
ME17-50	2676090
ME17-C	2614217
ME19	2652210
ME19-50	2676100
ME19-C	2614219
ME2	2652030
ME2.19-U	2604750
ME2/3-15	2599876
ME20	2652230
ME200-520	2648558
ME20-50	2676110
ME20-C	2614221
ME24	2652250
ME24-50	2676120
ME24-C	2614223
ME24L	2652251
ME2-50	2676010
ME29	2652260
ME29-50	2676130
ME29-C	2614225
ME29-U	2604870
ME2-C	2614201
ME3	2652050
ME3.14-U	2604770
ME30	2652270
ME30.23-C	2614228
ME30-50	2676140
ME30-C	2614227
ME30L	2652271
ME30-U	2604890
ME3-50	2676020
ME35-50	2676150
ME35-C	2614229
ME35-U	2604910
ME37-50	2676160
ME37-C	2614231
ME37-U	2604930
ME3-C	2614203
ME40-50	2676165
ME40-C	2614233
ME40-U	2604950
ME48-50	2676170
ME48-C	2614235
ME48-U	2604970
ME5	2652070
ME5.7-U	2604790
ME5-50	2676030
ME5-C	2614205
ME5S.15.3-C	2614206
ME60-50	2676172
ME60-C	2614237
ME7	2652090
ME7.12-C	2614208
ME7-50	2676040
ME7-C	2614207
ME80-3D	2634930
ME80-520	2648550
ME80-C	2614239
ME9	2652110
ME9.20-U	2604810
ME9-50	2676050
ME9-C	2614209
MFB13-40	2598040
MFB50-63	2598045
MH10/16-15	2599886
MH150L	2654381
MK10	2651640
MK10-50	2675410
MK10-C	2614270
MK12	2651670
MK12-50	2675430
MK12-C	2614280
MK14	2651700
MK14-3D	2634781
MK14-50	2675450
MK14-C	2614290
MK15-50	2675460
MK16	2651730
MK16-3D	2634783
MK16-50	2675470
MK16B	2651740
MK16B-50	2675471
MK16-C	2614300
MK17-C	2614305
MK17S-C	2614307
MK18	2651750
MK18-3D	2634785
MK18-50	2675490
MK18B	2651760
MK18B-50	2675491
MK18-C	2614310
MK20	2651770
MK20-3D	2634786
MK20-50	2675510
MK20-C	2614320
MK21B-50	2675525
MK21-C	2614325
MK22-3D	2634787
MK22-50	2675530
MK22-C	2614330
MK22L	2651791
MK22L-50	2675534
MK23-50	2675540
MK23-C	2614335
MK25-3D	2634788
MK25-50	2675550
MK25-C	2614340
MK28-3D	2634790
MK28-50	2675560
MK28B-50	2675561
MK28-C	2614350
MK32-3D	2634800
MK32-50	2675564
MK32-C	2614360
MK34-3D	2634810
MK34-C	2614370
MK34L-C	2614371
MK38-3D	2634830
MK42-3D	2634850
MK44-3D	2634870
MK46-3D	2634880
MK5	2651575
MK5/8-15	2599890
MK5-50	2675360
MK5-C	2614249
MK6	2651580
MK6-50	2675370
MK6-C	2614250
MK8	2651610
MK8-50	2675390
MK8-C	2614260
ML150-240-16C	2752182
ML95-240-16C	2752177
MLA50-240-12NC	2752170
MLL1	2590802
MLL90	2590812
MLRJ1	2590815
MLS1	2590805
MLS2	2590807
MMT200-50	2676388
MMT200-C	2611190
MMT200-U	2601170
MMT25-50	2676380
MMT25-C	2611160
MMT25-U	2601050
MMT315-C	2611200
MMT50-50	2676382
MMT50-C	2611170
MMT50-U	2601090
MMT95-50	2676384
MMT95-C	2611180
MMT95-U	2601130
MN10-C	2610560
MN10RF-50	2676250
MN10RF-C	2610768
MN12-C	2610570
MN12F-50	2676260
MN12F-C	2610770
MN14-C	2610580
MN14RF-50	2676270
MN14RF-C	2610772
MN17-C	2610591
MN17F-50	2676280
MN17F-C	2610774
MN19-C	2610600
MN19RF-50	2676285
MN19RF-C	2610776
MN20-C	2610610
MN20F-50	2676290
MN20F-C	2610778
MN24-C	2610620
MN24RF-50	2676295
MN24RF-C	2610780
MN29-C	2610625
MN29F-C	2610782
MN2-C	2610511
MN2RF-50	2676210
MN2RF-C	2610760
MN30-C	2610630
MN30RF-C	2610784
MN35-C	2610635
MN35F-C	2610786
MN37-C	2610640
MN37RF-C	2610788
MN3-C	2610520
MN3RF-50	2676220
MN3RF-C	2610762

CEMBRE

Type/Code Cross-Reference chart

Type	Code
MN48-C	2610650
MN48RF-C	2610790
MN5-C	2610530
MN5RF-50	2676230
MN5RF-C	2610764
MN60-C	2610660
MN7-C	2610540
MN7RF-50	2676240
MN7RF-C	2610766
MN80-3D	2631450
MN9-C	2610551
MP608	3031810
MP608/45	3031815
MP608/90	3031820
MP608D	3031830
MPC1	2595201
MPC2	2595203
MPC4	2595208
MPC7	2595221
MQ10-50	2675010
MQ16-50	2675013
MQ25-50	2675016
MQ35-50	2675019
MQ50-50	2675021
MQ70-50	2675024
MQM10-C	2610661
MQM120-C	2610668
MQM150-C	2610669
MQM16-C	2610662
MQM185-C	2610670
MQM240-C	2610671
MQM25-C	2610663
MQM35-C	2610664
MQM50-C	2610665
MQM70-C	2610666
MQM95-C	2610667
MQS150-C	2610755
MQS16-C	2610752
MQS240-C	2610756
MQS35-C	2610753
MQS70-C	2610754
MRD22-C	2616950
MRD24-C	2616952
MRD29-C	2616954
MRD32-C	2616956
MRH22-50	2675085
MRH26-C	2616802
MRH30-C	2616804
MRH32-C	2616806
MS10	2652515
MS10/16-15	2599881
MS10-50	2676830
MS120	2652550
MS120-50	2676900
MS150	2652555
MS150-50	2676910
MS150L	2652556
MS150L-50	2676911
MS16	2652520
MS16-50	2676840
MS185-50	2676920
MS240-50	2676925
MS25	2652525
MS25-50	2676850
MS300-50	2676930
MS35	2652530
MS35-50	2676860
MS4/10-15	2599880
MS50	2652535
MS50-50	2676870
MS6	2652510
MS6-50	2676820
MS70	2652540
MS70-50	2676880
MS95	2652545
MS95-50	2676890
MT150R-C12	2545010
MT150R-C16	2545090
MT150R-GC	2541870
MT150R-TD	2540550
MT150S-C12	2545310
MT150S-C14-80	2546270
MT150S-C16	2545350
MT150S-GC	2541910
MT150S-TD	2540630
MT200R-C10	2545540
MT200R-C16	2545550
MT200R-GC	2542030
MT200R-TD	2540670
MT240R-C12	2545710
MT240R-C16	2545750
MT240R-GC	2542110
MT240R-TD	2540710
MT25-C8	2543030
MT25-GC	2541570
MT25-TD	2540150
MT315R-C16	2545950
MT315R-GC	2542150
MT315R-TD	2540750
MT315S-C16	2545990
MT315S-GC	2542290
MT315S-TD	2540790
MT400-TD	2540830
MT40S-C10	2543410
MT40S-C14-80	2546070
MT40S-C8	2543400
MT40S-GC	2541610
MT40S-TD	2540190
MT500-TD	2540870
MT50R-C10	2543650
MT50R-C8	2543610
MT50R-GC	2541690
MT50R-TD	2540270
MT50S-C10	2543850
MT50S-C14-80	2546110
MT50S-C8	2543810
MT50S-GC	2541650
MT50S-TD	2540230
MT630-TD	2540890
MT70S-C10	2544050
MT70S-GC	2541730
MT70S-TD	2540350
MT95R-C10	2544290
MT95R-C12	2544330
MT95R-GC	2541770
MT95R-TD	2540390
MT95S-C10	2544530
MT95S-C12	2544570
MT95S-C14-80	2546230
MT95S-GC	2541850
MT95S-TD	2540470
MTA120-C	2771510
MTA150-C	2771710
MTA16-C	2770001
MTA185-C	2772150
MTA240-C	2773010
MTA25-C	2770020
MTA35-C	2770030
MTA50-C	2770310
MTA70-C	2770550
MTA95-C	2770830
MT-FC48N	2685903
MTMA10-GC	2720025
MTMA120/1	2720280
MTMA120-70-GC	2721410
MTMA120-95-GC	2721450
MTMA120-GC	2720272
MTMA150/1	2720320
MTMA150-120-GC	2721630
MTMA150-70-GC	2721550
MTMA150-95-GC	2721590
MTMA150-GC	2720330
MTMA16/1	2720031
MTMA16-10-GC	2720560
MTMA16-GC	2720035
MTMA185/1	2720370
MTMA185-120-GC	2721900
MTMA185-150-GC	2721910
MTMA185-GC	2720360
MTMA240/1	2720400
MTMA240-150-GC	2722050
MTMA240-185-GC	2722090
MTMA240-GC	2720410
MTMA25/1	2720071
MTMA25-10-GC	2720575
MTMA25-16-GC	2720580
MTMA25-GC	2720090
MTMA300-GC	2720430
MTMA35/1	2720111
MTMA35-20-GC	2720135
MTMA35-GC	2720130
MTMA400/1	2720475
MTMA400-240-GC	2722245
MTMA400-300-GC	2722250
MTMA50/1	2720160
MTMA500-300-GC	2722260
MTMA500-40/1	2720509
MTMA500-400-GC	2722270
MTMA500-GC	2720515
MTMA50-25-GC	2720650
MTMA50-35-GC	2720660
MTMA50-GC	2720152
MTMA630/1	2720530
MTMA70/1	2720191
MTMA70-35-GC	2720940
MTMA70-50-GC	2720980
MTMA70-GC	2720195
MTMA95/1	2720250
MTMA95-50-GC	2721030
MTMA95-70-GC	2721070
MTMA95-GC	2720232
MTMAD300/1	2720460
MTMAD300-150-GC	2722140
MTMAD300-185-GC	2722160
MTMAD300-240-GC	2722220
MTMAD300-95-GC	2722121
MTMAD300-GC	2720440
MTT120-50	2677275
MTT16-50	2677220
MTT25-50	2677230
MTT35-50	2677240
MTT50-50	2677250
MTT70-50	2677260
MTT95-50	2677270
MUA150	2616050
MUA240	2616070
MUA300-34	2616090
MUA35	2616010
MUA95	2616030
MUT9914-C	2612995
MUT9915-C	2612996
MUT9916-C	2612997
MUT9917-C	2612998
MUT9918-C	2612999
MUT9919-C	2613001
MUT9920-C	2613002
MUT9921-C	2613003
MUT9922-C	2613004
MUT9923-C	2613005
MUT9924-C	2613006
MUT9925-C	2613007
MUT9926-C	2613008
MUT9927-C	2613009
MUT9928-C	2613010
MUT9929-C	2613011
MUT9941-50	2676485
MUT9941-C	2613015
MUT9941-W	2664319
MUT9942-W	2664320
MUT9943-50	2676490
MUT9943-W	2664321
MUT9950-C	2613020
MUT9954-50	2676480
MUT9954-W	2664322
MUT9955-C	2613025
MUT9956-C	2613026
MUT9957-C	2613027
MUT9958-C	2613028
MUT9958-W	2664324
MUT9959-C	2613029
MUT9960-C	2613030
MUT9961-C	2613032
MUT9962-C	2613033
MUT9964-C	2613034
MUT9965-C	2613036
MUT9966-C	2613037
MUT9967-C	2613038
MUT9968-C	2613039
MUT9969-C	2613040
MUT9970-C	2613041
MUT9971-C	2613042
MUT9972-C	2613043
MUT9973-C	2613044
MUT9974-C	2613045
MUT9975-50	2676614
MUT9975-C	2613046
MUT9976-C	2613047
MUT9977-C	2613048
MUT9978-C	2613049
MUT9979-C	2613050
MUT9980-50	2676540
MUT9980-C	2613052
MUT9980-W	2664326
MUT9981-50	2676611
MUT9981-C	2613053
MUT9982-50	2676612
MUT9982-C	2613054
MUT9982-W	2664327
MUT9983	2654483
MUT9983-50	2676613
MUT9983-C	2613055
MUT9983-W	2664328
MUT9984-50	2675621
MUT9984-C	2613056
MUT9984-W	2664330
MUT9985-50	2676495
MUT9985-C	2613057
MUT9985-W	2664335
MUT9986	2654486
MUT9986-50	2676616
MUT9986-C	2613058
MUT9986-W	2664329
MUT9987	2654487
MUT9987-50	2676617
MUT9987-C	2613059
MUT9987-W	2664332
MUT9988-50	2676618
MUT9988-C	2613060
MUT9988-W	2664331
MUT9989-50	2676500
MUT9989-W	2664333
MUT9990	2654490
MUT9990-50	2676620
MUT9990-C	2613062
MUT9990-W	2664334
MUT9991	2654491
MUT9991-50	2676590
MUT9991-C	2613063
MUT9991-W	2664336
MUT9993	2654493
MUT9993-50	2676610
MUT9993-C	2613065
MUT9993-W	2664338
MUT9995	2654495
MUT9995-50	2676545
MUT9995-C	2613070
MUT9995-W	2664340
MUT9996	2654496
MUT9996-50	2676546
MUT9996-C	2613080
MUT9996-W	2664342
MUT9997	2654497
MUT9997-50	2676547
MUT9997-C	2613085
MUT9997-W	2664344
MUT9998	2654498
MUT9998-50	2676548
MUT9998-C	2613090
MUT9998-W	2664346
MUT9999	2654499
MUT9999-50	2676550
MUT9999-C	2613091
MUT9999-W	2664348
MV150	2616170
MV240	2616180
MV35	2616150
MV95	2616160
MVM150	2616310
MVM240	2616320
MVM35	2616290
MVM95	2616300
MY10-50	2677340
MY10-C	2613380
MY14-50	2677345
MY14-C	2613385
MY16-50	2677350
MY16-C	2613390
MY19-50	2677355
MY19-C	2613395
MY24-50	2677360
MY24-C	2613400
MY24L-50	2677362
MY2-50	2677310
MY2-C	2613350
MY30-50	2677365
MY30-C	2613405
MY30L-50	2677366
MY3-50	2677315
MY36-50	2677370
MY36-C	2613410
MY37-50	2677375
MY37-C	2613415
MY3-C	2613355
MY4-50	2677320
MY48-50	2677380
MY48-C	2613420
MY4-C	2613360
MY5-50	2677325
MY5-C	2613365
MY60-C	2613425
MY6-50	2677330
MY6-C	2613370
MY7-50	2677335
MY76-C	2613430
MY7-C	2613375
N10-EC	2114040
N10-YEC	2114043
N10-WE	8420017
N11	2581310
N1-1	2591059
N12	2581312
N13	2581314
N14	2581316
N14-BEC	2114022
N14-EC	2114020
N15	2581318
N16	2581320
ND1	2590080
ND2	2590082
ND3	2590084
ND4	2590086
NN4-15	2599867
NY0	2581324
NY00	2581322
NY1	2581326
PA1	2650230
PA10	2650290
PA100-3D	2631930
PA10-50	2675686
PA10-C	2611010
PA120-3D	2631950
PA120-520	2645600
PA1-50	2675680
PA19-50	2675694
PA200-520	2645610
PA24-50	2675696
PA24-C	2611020
PA48-C	2611030
PA5	2650250
PA5-50	2675682
PA60-C	2611040
PB-1	2591046
PC1	2590705
PG-1	2591047
PH1-1	2591061
PKC1012	2809490
PKC1018	2809500
PKC108	2809390
PKC112	2809400
PKC120027	2809605
PKC1508	2809410
PKC1510	2809415
PKC1518	2809420
PKC1612	2809510
PKC1618	2809520

Type/Code Cross-Reference chart

Type	Code
PKC25016	2809530
PKC25022	2809540
PKC2508	2809430
PKC2512	2809435
PKC2518	2809440
PKC306	2809320
PKC308	2809330
PKC35016	2809550
PKC35025	2809560
PKC410	2809452
PKC412	2809455
PKC418	2809460
PKC50020	2809570
PKC50025	2809575
PKC508	2809350
PKC510	2809360
PKC612	2809470
PKC618	2809480
PKC70022	2809595
PKC7508	2809370
PKC7512	2809380
PKC95025	2809600
PKD1012	2808915
PKD1018	2808917
PKD106	2808870
PKD108	2808872
PKD110	2808874
PKD112	2808876
PKD1508	2808880
PKD1510	2808882
PKD1512	2808884
PKD1518	2808886
PKD1612	2808920
PKD1618	2808922
PKD25016	2808925
PKD25022	2808927
PKD2508	2808890
PKD2512	2808892
PKD2518	2808894
PKD35016	2808930
PKD35025	2808932
PKD410	2808900
PKD412	2808902
PKD418	2808904
PKD50020	2808935
PKD50025	2808937
PKD506	2808850
PKD508	2808852
PKD510	2808854
PKD612	2808910
PKD618	2808912
PKD7506	2808860
PKD7508	2808862
PKD7510	2808864
PKD7512	2808866
PKE1012	2809190
PKE1018	2809200
PKE108	2809090
PKE1508	2809110
PKE1510	2809115
PKE1518	2809120
PKE1612	2809210
PKE1618	2809220
PKE25016	2809230
PKE25022	2809240
PKE2508	2809130
PKE2512	2809135
PKE2518	2809140
PKE308	2809030
PKE410	2809152
PKE412	2809155
PKE418	2809160
PKE508	2809050
PKE612	2809170
PKE618	2809180
PKE7508	2809070
PKT1014	2809870
PKT108	2809790
PKT110	2809795
PKT1508	2809810
PKT1512	2809820
PKT1614	2809880
PKT2510	2809830
PKT2512	2809840
PKT412	2809850
PKT508	2809760
PKT510	2809765
PKT614	2809860
PKT7508	2809770
PKT7510	2809775
PL03-P	2051860
PL06-P	2053860
PN14-C	2610710
PN24-C	2610720
PN37-C	2610730
PN48-C	2610740
PN60-C	2610750
PN7-C	2610700
PN80-3D	2631460
PNB-1	2591040
PNB-3F/M	2591088
PNB-3N1	2591092
PNB-3N5	2591096
PNB-3NN3	2591094
PNB-3NN4	2591095
PNB-3P	2591090
PNB-3PD	2591091
PNB-4KE	2591251
PNB-6KE	2591260
PNB-6KE-T	2591262
PNB-7KE	2591268
PNB-7KE-T	2591270
PO7000	2595904
PR-1	2591045
PRCH	2596113
PS130-150/E	2616371
PS130-240/E	2616381
PS130-35/E	2616351
PS130-95/E	2616361
PV-1	2591044
Q10-10	2167025
Q10-12	2167030
Q10-4	2167005
Q10-5	2167010
Q10-6	2167015
Q10-8	2167020
Q120-10	2167545
Q120-12	2167550
Q120-16	2167555
Q120-8	2167540
Q14-MS	6060120
Q150-10	2167610
Q150-12	2167615
Q150-16	2167620
Q16-10	2167095
Q16-12	2167100
Q16-5	2167080
Q16-6	2167085
Q16-8	2167090
Q185-10	2167680
Q185-12	2167685
Q185-16	2167690
Q240-10	2167750
Q240-12	2167755
Q240-16	2167760
Q25-10	2167165
Q25-12	2167170
Q25-16	2167175
Q25-5	2167150
Q25-6	2167155
Q25-8	2167160
Q35-10	2167240
Q35-12	2167245
Q35-16	2167250
Q35-6	2167230
Q35-8	2167235
Q38-F	6060126
Q38-MS	6060124
Q50-10	2167320
Q50-12	2167325
Q50-16	2167330
Q50-6	2167310
Q50-8	2167315
Q70-10	2167400
Q70-12	2167405
Q70-16	2167410
Q70-6	2167390
Q70-8	2167395
Q95-10	2167475
Q95-12	2167480
Q95-16	2167485
Q95-8	2167470
RA-3	2598428
RB38-F	8502021
RB38-M	8502020
RBG-15	2599850
RBY-15	2599852
RBY-WE	8420016
RCP-B70	2596116
RD100SS	2685623
RD102SS	2685636
RD114SS	2685626
RD120SS	2685624
RD126X126	2685669
RD138X138	2685670
RD140SS	2685637
RD15.5SS	2685560
RD15.5SS-FC	2685550
RD16.2SS	2685562
RD16.2SS-FC	2685552
RD17.5SS	2685564
RD17.5SS-FC	2685554
RD17SS	2685563
RD18.8SS	2685566
RD18.8SS-FC	2685556
RD18D	2685645
RD18X46	2685654
RD19.1SS	2685568
RD20.5SS	2685570
RD21.5SS	2685571
RD21X21	2685650
RD22.6SS	2685572
RD224X224	2685678
RD22X30	2685651
RD22X46	2685656
RD23.8SS	2685574
RD24D	2685647
RD25.4SS	2685576
RD27SS	2685578
RD28.5SS	2685580
RD28.5SS-19	2685584
RD29X71	2685655
RD30.5SS	2685582
RD30.5SS-19	2685586
RD31.8SS	2685588
RD32.5SS	2685590
RD34.6SS	2685592
RD34SS	2685591
RD35X65	2685675
RD36X46	2685658
RD37.2SS	2685594
RD37X104	2685674
RD37X115	2685661
RD37X54	2685671
RD37X67	2685672
RD37X88	2685673
RD38.1SS	2685596
RD38.5SS	2685597
RD40.5SS	2685598
RD40.5SS-FC	2685627
RD41.3SS	2685600
RD41.3SS-FC	2685628
RD42.5SS	2685602
RD42.5SS-FC	2685629
RD43.2SS	2685604
RD43.2SS-FC	2685630
RD44.5SS	2685606
RD44.5SS-FC	2685632
RD46X107	2685652
RD46X46	2685660
RD46X54	2685662
RD46X72	2685664
RD46X92	2685677
RD47.2SS	2685608
RD47.2SS-FC	2685634
RD48.5SS	2685609
RD50.5SS	2685610
RD50X98	2685663
RD51.4SS	2685611
RD52.4SS	2685613
RD54.2SS	2685612
RD60.5SS	2685615
RD60SS	2685614
RD64SS	2685616
RD65SS	2685618
RD67X126	2685665
RD68X68	2685666
RD72X136	2685667
RD76.5SS	2685619
RD76SS	2685620
RD80.5SS	2685622
RD89SS	2685621
RD90SS	2685625
RD92X92	2685668
RF-BF4	2051630
RF-BM4	2051660
RF-F305	2051560
RF-F305P	2051565
RF-F308	2051580
RF-F308P	2051585
RF-F405	2051600
RF-F405P	2051605
RF-F408	2051590
RF-F408P	2051595
RF-F608	2051610
RF-F608P	2051620
RF-FM608	2051690
RF-M10	2050390
RF-M12	2050430
RF-M2	2050010
RF-M3	2050030
RF-M3.5	2050070
RF-M3.5/1	2050110
RF-M4	2050150
RF-M4/3	2050170
RF-M5	2050190
RF-M6	2050230
RF-M6/1	2050270
RF-M608	2051650
RF-M608P	2051655
RF-M7	2050310
RF-M8	2050350
RF-P10	2051250
RF-P12	2051290
RF-P8	2051210
RF-PP12	2051330
RF-PP12/1	2051340
RF-PP12/19	2051370
RF-PP12/23	2051380
RF-PP14	2051410
RF-PP16/23	2051450
RF-PPL30	2051460
RF-PPL46	2051465
RF-U10	2050950
RF-U12	2050990
RF-U3	2050630
RF-U3.5	2050670
RF-U3.5/1	2050680
RF-U3.5/2	2050681
RF-U4	2050710
RF-U4/1	2050730
RF-U4/2	2050750
RF-U5	2050790
RF-U5/1	2050791
RF-U6	2050830
RF-U6/1	2050870
RF-U8	2050910
RFC200	3065380
RG71-WE	8420035
RG174-WE	8420036
RG179-WE	8420037
RH50	2670050
RHC131	2619010
RHC131LN	2619021
RH-FC48N	2592596
RH-FL75	2592597
RHM132	2619410
RHM50	2670035
RHT160	2592422
RHT160-60N	2592584
RHTD270	2682521
RHTD3241	2682502
RHTD410T	2682520
RHU131-C	2619210
RHU450	2640011
RHU520	2640151
RJ45-WE	8420029
RKF-BF4	2051632
RKF-BM4	2051662
RKF-F305	2051562
RKF-F308	2051582
RKF-F405	2051602
RKF-F405P	2051607
RKF-F408	2051592
RKF-F408P	2051597
RKF-F608	2051612
RKF-F608P	2051622
RKF-FM608	2051692
RKF-M608	2051652
RKY-M10	2145715
RKY-M12	2145718
RKY-M3	2145684
RKY-M3.5	2145685
RKY-M3.5/1	2145687
RKY-M4	2145690
RKY-M5	2145699
RKY-M6/1	2145705
RKY-M8	2145711
RKY-P10	2145783
RKY-P12	2145784
RKY-P8	2145782
RKY-PP12	2145790
RKY-PP12/19	2145792
RKY-PP16/23	2145793
RKY-PPL30	2145795
RKY-PPL46	2145798
RKY-U3	2145730
RKY-U3.5	2145733
RKY-U4	2145736
RKY-U5	2145739
RKY-U6	2145742
RKY-U6/1	2145743
RN-BS	2469710
RN-FA305	3031610
RN-FA405	3031615
RN-FA608	3031620
RN-MA305	3031710
RN-MA405	3031715
RN-MA608	3031720
RP-M10	2046045
RP-M12	2046050
RP-M2	2046005
RP-M3	2046010
RP-M3.5	2046015
RP-M3.5/1	2046016
RP-M4	2046020
RP-M4/3	2046023
RP-M5	2046025
RP-M6	2046030
RP-M6/1	2046031
RP-M7	2046035
RP-M8	2046040
RP-P10	2046115
RP-P12	2046120
RP-P8	2046110
RP-PP12	2046140
RP-PP12/1	2046145
RP-PP12/19	2046150
RP-PP12/23	2046155
RP-PP14	2046160
RP-PP16/23	2046165
RP-PPL30	2046180
RP-PPL46	2046185
RP-U10	2046265
RP-U12	2046270
RP-U3	2046210
RP-U3.5	2046215
RP-U3.5/2	2046217
RP-U4	2046230
RP-U4/1	2046231
RP-U4/2	2046240
RP-U5	2046245
RP-U5/1	2046246
RP-U6	2046255
RP-U6/1	2046256

Type/Code Cross-Reference chart

Type	Code
RP-U8	2046260
RS0305.07	3008006
RS0407.M12	3008050
RS0507.09	3008008
RS0509.M16	3008052
RS0710.11	3008010
RS0813.M20	3008054
RS1014.16	3008012
RS1117.M25	3008056
RS1420.21	3008014
RS1520.M32	3008058
RS1928.M40	3008060
RS2026.29	3008016
RS2635.36	3008018
RS2735.M50	3008062
RT10.5	2592470
RT11	2592480
RT13	2592490
RT13.5	2592495
RT14	2592500
RT15	2592510
RT17	2592530
RT19	2592540
RT21	2592550
RT6.5	2592430
RT8.5	2592450
RT9	2592460
S1.5-M10	2160390
S1.5-M12	2160430
S1.5-M2	2160010
S1.5-M3	2160030
S1.5-M3.5	2160070
S1.5-M3.5/1	2160110
S1.5-M4	2160150
S1.5-M4/3	2160160
S1.5-M5	2160190
S1.5-M6	2160230
S1.5-M6/1	2160270
S1.5-M7	2160310
S1.5-M8	2160350
S1.5-P10	2161190
S1.5-P12	2161230
S1.5-P8	2161150
S1.5-PP12	2161310
S1.5-PP12/1	2161330
S1.5-PP12/19	2161350
S1.5-PP14	2161360
S1.5-U10	2160950
S1.5-U12	2160990
S1.5-U3	2160630
S1.5-U3.5	2160670
S1.5-U3.5/2	2160682
S1.5-U4	2160710
S1.5-U4/1	2160730
S1.5-U4/2	2160750
S1.5-U5	2160790
S1.5-U5/1	2160800
S1.5-U6	2160830
S1.5-U6/1	2160870
S1.5-U8	2160910
S10-M4	2165130
S10-M5	2165150
S10-M6	2165190
S10-M7	2165230
S2.5-M10	2162170
S2.5-M12	2162210
S2.5-M3	2161810
S2.5-M3.5	2161850
S2.5-M3.5/1	2161890
S2.5-M4	2161930
S2.5-M5	2161970
S2.5-M6	2162010
S2.5-M6/1	2162050
S2.5-M7	2162090
S2.5-M8	2162130
S2.5-P10	2163050
S2.5-P12	2163090
S2.5-P8	2163010
S2.5-PP12	2163170
S2.5-PP12/25	2163210
S2.5-PP16/25	2163250
S2.5-U10	2162730
S2.5-U12	2162770
S2.5-U3	2162410
S2.5-U3.5	2162450
S2.5-U3.5/1	2162460
S2.5-U4	2162490
S2.5-U4/1	2162510
S2.5-U4/2	2162530
S2.5-U5	2162570
S2.5-U6	2162610
S2.5-U6/1	2162650
S2.5-U8	2162690
S6-M10	2163830
S6-M10/1	2163850
S6-M12	2163890
S6-M14	2163930
S6-M16	2163970
S6-M3	2163510
S6-M3.5	2163550
S6-M4	2163590
S6-M5	2163630
S6-M6	2163670
S6-M6/1	2163710
S6-M7	2163750
S6-M8	2163790
S6-M8/1	2163800
S6-P10	2164710
S6-P12	2164750
S6-P14	2164790
S6-PP12	2164830
S6-PP17	2164870
S6-U10	2164370
S6-U10/1	2164390
S6-U12	2164430
S6-U14	2164470
S6-U16	2164510
S6-U3.5	2164170
S6-U4	2164210
S6-U5	2164250
S6-U6	2164290
S6-U8	2164330
SB19	3065352
SB19-TIN	3065353
SB7-SDS-PLUS	3065350
SC1	2591261
SC3X	2591264
SC5X	2591266
SC6X-A	2591267
SC-M1	3065306
SC-PG1	3065305
SDC0PH-KV	3065110
SDC0PZ-KV	3065150
SDC10TX-KV	3065170
SDC10X125-HEX	3065621
SDC15TX-KV	3065172
SDC1PH-KV	3065112
SDC1PH-SL-KV	3065122
SDC1PZ-KV	3065152
SDC1PZ-SL-KV	3065162
SDC2.5X55B	3065061
SDC20TX-KV	3065174
SDC25TX-KV	3065176
SDC2PH-KV	3065114
SDC2PH-SL-KV	3065124
SDC2PZ-KV	3065154
SDC2PZ-SL-KV	3065164
SDC3.5X100-KV	3065067
SDC3.5X55B	3065062
SDC30TX-KV	3065178
SDC3X100-KV	3065065
SDC3X60-PD	3065060
SDC40TX-KV	3065180
SDC4X100-KV	3065069
SDC5.5X125-KV	3065071
SDC6.5X150-KV	3065073
SDC7X125-HEX	3065615
SDC8X125-HEX	3065617
SDC8X175-KV	3065075
SDC9X125-HEX	3065619
SDCS1PH	3065132
SDCS2.5X55	3065092
SFC200	3065385
SPC200B-KV	3065257
SPC200-KV	3065255
STBC12-300	3065662
SFI10X100X1	2852570
SFI10X15.5X0.8	2850970
SFI10X24X1	2851370
SFI10X32X1	2851570
SFI10X40X1	2851770
SFI10X50X1	2851970
SFI10X63X1	2852170
SFI10X80X1	2852370
SFI12X100X1	2852580
SFI2X13X0.5	2850710
SFI2X20X1	2851110
SFI2X24X1	2851310
SFI2X32X1	2851510
SFI3X13X0.5	2850720
SFI3X15.5X0.8	2850920
SFI3X20X1	2851120
SFI3X24X1	2851320
SFI3X32X1	2851520
SFI3X9X0.8	2850520
SFI4X13X0.5	2850730
SFI4X15.5X0.8	2850930
SFI4X20X1	2851130
SFI4X24X1	2851330
SFI4X32X1	2851530
SFI4X40X1	2851730
SFI4X50X1	2851930
SFI4X80X1	2852330
SFI5X20X1	2851140
SFI5X24X1	2851340
SFI5X32X1	2851540
SFI5X40X1	2851740
SFI5X50X1	2851940
SFI5X63X1	2852140
SFI5X80X1	2852340
SFI6X13X0.5	2850750
SFI6X15.5X0.8	2850950
SFI6X20X1	2851150
SFI6X24X1	2851350
SFI6X32X1	2851550
SFI6X40X1	2851750
SFI6X50X1	2851950
SFI6X63X1	2852150
SFI6X80X1	2852350
SFI6X9X0.8	2850550
SFI8X100X1	2852560
SFI8X24X1	2851360
SFI8X32X1	2851560
SFI8X40X1	2851760
SFI8X50X1	2851960
SFI8X63X1	2852160
SFI8X80X1	2852360
SH-B70	2596080
SMA-WE	8420038
SS4.8-3.7	3041670
SS4.8-4.5	3041672
SS9-4.5	3041675
SS9-5	3041677
SS9-6.4	3041679
ST-WE	8420039
T10-L6	2380280
T10-L8	2380285
T10-M10	2380250
T10-M5	2380220
T10-M6	2380230
T10-M8	2380240
T120-L10	2381105
T120-L12	2381110
T120-M10	2381050
T120-M12	2381060
T120-M14	2381070
T120-M16	2381080
T120-M8	2381040
T150-L10	2381305
T150-L12	2381310
T150-M10	2381250
T150-M12	2381260
T150-M14	2381270
T150-M16	2381280
T150-M8	2381240
T16-L10	2380390
T16-L6	2380380
T16-L8	2380385
T16-M10	2380350
T16-M5	2380320
T16-M6	2380330
T16-M8	2380340
T185-L10	2381495
T185-M10	2381450
T185-M12	2381460
T185-M14	2381470
T185-M16	2381480
T240-M10	2381650
T240-M12	2381660
T240-M14	2381670
T240-M16	2381680
T240-M20	2381690
T25-L10	2380470
T25-L6	2380480
T25-L8	2380485
T25-M10	2380450
T25-M12	2380460
T25-M5	2380425
T25-M6	2380430
T25-M8	2380440
T300-M10	2381750
T300-M12	2381760
T300-M14	2381770
T300-M16	2381780
T300-M20	2381790
T35-L10	2380590
T35-L6	2380580
T35-L8	2380585
T35-M10	2380550
T35-M12	2380560
T35-M6	2380530
T35-M8	2380540
T400-M14	2381875
T400-M16	2381880
T400-M20	2381890
T4-M4	2380060
T4-M5	2380070
T4-M6	2380080
T50-L10	2380690
T50-L6	2380680
T50-L8	2380685
T50-M10	2380650
T50-M12	2380660
T50-M6	2380630
T50-M8	2380640
T6-L6	2380180
T6-M4	2380110
T6-M5	2380120
T6-M6	2380130
T6-M8	2380140
T70-L10	2380790
T70-L12	2380795
T70-L8	2380785
T70-M10	2380750
T70-M12	2380760
T70-M6	2380734
T70-M8	2380740
T95-L10	2380905
T95-L12	2380910
T95-M10	2380850
T95-M12	2380860
T95-M14	2380870
T95-M16	2380880
T95-M6	2380834
T95-M8	2380840
TBS127X10BK	2811122
TBS127X10BR	2811247
TBS127X10BU	2811197
TBS127X10GY	2811222
TBS127X10RE	2811047
TBS127X10WH	2811273
TBS127X10Y/G	2811172
TBS16X20BK	2811110
TBS16X20BR	2811235
TBS16X20BU	2811185
TBS16X20GY	2811210
TBS16X20RE	2811035
TBS16X20WH	2811261
TBS16X20Y/G	2811160
TBS190X5BK	2811124
TBS190X5BR	2811249
TBS190X5BU	2811199
TBS190X5GY	2811224
TBS190X5RE	2811049
TBS190X5WH	2811275
TBS190X5Y/G	2811174
TBS24X20BK	2811112
TBS24X20BR	2811237
TBS24X20BU	2811187
TBS24X20GY	2811212
TBS24X20RE	2811037
TBS24X20WH	2811263
TBS24X20Y/G	2811162
TBS254X5BK	2811126
TBS254X5BR	2811251
TBS254X5BU	2811201
TBS254X5GY	2811226
TBS254X5RE	2811051
TBS254X5WH	2811277
TBS254X5Y/G	2811176
TBS32X10BK	2811114
TBS32X10BR	2811239
TBS32X10BU	2811189
TBS32X10GY	2811214
TBS32X10RE	2811039
TBS32X10WH	2811265
TBS32X10Y/G	2811164
TBS48X10BK	2811116
TBS48X10BR	2811241
TBS48X10BU	2811191
TBS48X10GY	2811216
TBS48X10RE	2811041
TBS48X10WH	2811267
TBS48X10Y/G	2811166
TBS64X10BK	2811118
TBS64X10BR	2811243
TBS64X10BU	2811193
TBS64X10GY	2811218
TBS64X10RE	2811043
TBS64X10WH	2811269
TBS64X10Y/G	2811168
TBS95X10BK	2811120
TBS95X10BR	2811245
TBS95X10BU	2811195
TBS95X10GY	2811220
TBS95X10RE	2811045
TBS95X10WH	2811271
TBS95X10Y/G	2811170
TC025	2591895
TC04N	2591392
TC050Y	2597056
TC065-SC	2591870
TC085	2597150
TC096	2597360
TC120	2597250
TCP10	3019220
TCP12	3019225
TCP15	3019230
TCP18	3019235
TCP20	3019240
TCP25	3019250
TCP30	3019260
TCP35	3019270
TCP40	3019280
TCP45	3019290
TCP5	3019210
TCP50	3019300
TCP55	3019305
TCP60	3019310
TCP65	3019315
TCP70	3019320
TCS1016X25BK	2811342
TCS1016X25TR	2811558
TCS1260X25BK	2811344
TCS1260X25TR	2811559
TCS127X100BK	2811326
TCS127X100BR	2811614
TCS127X100BU	2811432
TCS127X100GN	2811402
TCS127X100GY	2811583
TCS127X100RE	2811462
TCS127X100TR	2811546
TCS127X100WH	2811492
TCS127X100Y/G	2811523
TCS127X100YE	2811364

Type/Code Cross-Reference chart

Type	Code
TCS12X200BK	2811312
TCS12X200TR	2811549
TCS1500X25BK	2811346
TCS1500X25TR	2811560
TCS160X100BK	2811328
TCS160X100TR	2811547
TCS16X200BK	2811314
TCS16X200BR	2811602
TCS16X200BU	2811420
TCS16X200GN	2811390
TCS16X200GY	2811571
TCS16X200RE	2811450
TCS16X200TR	2811551
TCS16X200WH	2811480
TCS16X200YE	2811352
TCS190X100BK	2811330
TCS190X100BR	2811616
TCS190X100BU	2811434
TCS190X100GN	2811404
TCS190X100GY	2811585
TCS190X100RE	2811464
TCS190X100TR	2811548
TCS190X100WH	2811494
TCS190X100Y/G	2811525
TCS190X100YE	2811366
TCS20X200WH	2811481
TCS24X200BK	2811316
TCS24X200BR	2811604
TCS24X200BU	2811422
TCS24X200GN	2811392
TCS24X200GY	2811573
TCS24X200RE	2811452
TCS24X200TR	2811552
TCS24X200WH	2811482
TCS24X200YE	2811354
TCS254X50BK	2811332
TCS254X50BR	2811618
TCS254X50BU	2811436
TCS254X50GN	2811406
TCS254X50GY	2811587
TCS254X50RE	2811466
TCS254X50TR	2811553
TCS254X50WH	2811496
TCS254X50Y/G	2811527
TCS254X50YE	2811368
TCS320X50BK	2811334
TCS320X50TR	2811554
TCS32X200BK	2811318
TCS32X200BR	2811606
TCS32X200BU	2811424
TCS32X200GN	2811394
TCS32X200GY	2811575
TCS32X200RE	2811454
TCS32X200TR	2811540
TCS32X200WH	2811484
TCS32X200Y/G	2811515
TCS32X200YE	2811356
TCS381X50BK	2811336
TCS381X50BR	2811620
TCS381X50BU	2811438
TCS381X50GY	2811589
TCS381X50TR	2811555
TCS381X50Y/G	2811511
TCS48X100BK	2811320
TCS48X100BR	2811608
TCS48X100BU	2811426
TCS48X100GN	2811396
TCS48X100GY	2811577
TCS48X100RE	2811456
TCS48X100TR	2811543
TCS48X100WH	2811486
TCS48X100Y/G	2811517
TCS48X100YE	2811358
TCS508X25BK	2811338
TCS508X25BR	2811622
TCS508X25BU	2811440
TCS508X25GY	2811591
TCS508X25TR	2811556
TCS508X25Y/G	2811513
TCS64X100BK	2811322
TCS64X100BR	2811610
TCS64X100BU	2811428
TCS64X100GN	2811398
TCS64X100GY	2811579
TCS64X100RE	2811458
TCS64X100TR	2811542
TCS64X100WH	2811488
TCS64X100Y/G	2811519
TCS64X100YE	2811360
TCS762X25BK	2811340
TCS762X25TR	2811557
TCS95X100BK	2811324
TCS95X100BR	2811612
TCS95X100BU	2811430
TCS95X100GN	2811400
TCS95X100GY	2811581
TCS95X100RE	2811460
TCS95X100TR	2811544
TCS95X100WH	2811490
TCS95X100Y/G	2811521
TCS95X100YE	2811362
TD-10X10-M10	2685011
TD-11	2685005
TD-120X20-M20	2685013
TD-14X14-M14	2685012
TD-14X14-M14/1	2685004
TD-16	2685002
TD-19	2685008
TD-20	2685001
TD-20X20-M20	2685014
TD-20X20-M20-C	2685019
TD-27	2685007
TD-28.5	2685009
TD-9	2685003
TD-M16C	2685010
TF300-Q38F	2592862
TF300-Q38FM	2592863
TF600-Q38FM	2592981
TGD-10X10-M9	2685018
TGD-13.5X13.5M13	2685017
TGM38	3016155
TGM48	3016157
TGM513	3016165
TGM58	3016159
TGM613	3016167
TGM713	3016169
TGM817	3016171
TN120SEY	2590282
TN70SEY	2590262
TNE-A120	2590117
TNE-A50	2590116
TNE-T120	2590119
TNE-T50	2590118
TNE-D120	2590112
TNE-D50	2590111
TNN120	2590290
TNN70	2590240
TR160-KV	3065330
TR200-KV	3065332
TRCB2	3065991
TRD-9.4C	2685015
TRD-M11C	2685016
TWC10.50-14	3065670
TWC20.100-38	3065671
TWC40.200-12	3065672
TRS-B70	2593280
TSS127BK	2811660
TSS127BR	2811900
TSS127BU	2811750
TSS127GN	2811841
TSS127GY	2811871
TSS127RE	2811690
TSS127TR	2811780
TSS127WH	2811720
TSS127Y/G	2811928
TSS127YE	2811810
TSS12BK	2811646
TSS12BR	2811886
TSS12BU	2811736
TSS12GN	2811827
TSS12GY	2811857
TSS12RE	2811676
TSS12TR	2811766
TSS12WH	2811706
TSS12YE	2811796
TSS16BK	2811648
TSS16BR	2811888
TSS16BU	2811738
TSS16GN	2811829
TSS16GY	2811859
TSS16RE	2811678
TSS16TR	2811768
TSS16WH	2811708
TSS16Y/G	2811916
TSS16YE	2811798
TSS190BK	2811662
TSS190BR	2811902
TSS190BU	2811752
TSS190GN	2811843
TSS190GY	2811873
TSS190RE	2811692
TSS190TR	2811782
TSS190WH	2811722
TSS190Y/G	2811930
TSS190YE	2811812
TSS24BK	2811650
TSS24BR	2811890
TSS24BU	2811740
TSS24GN	2811831
TSS24GY	2811861
TSS24RE	2811680
TSS24TR	2811770
TSS24WH	2811710
TSS24Y/G	2811918
TSS24YE	2811800
TSS254BK	2811664
TSS254BR	2811904
TSS254BU	2811754
TSS254GN	2811845
TSS254GY	2811875
TSS254RE	2811694
TSS254TR	2811784
TSS254WH	2811724
TSS254Y/G	2811932
TSS254YE	2811814
TSS32BK	2811652
TSS32BR	2811892
TSS32BU	2811742
TSS32GN	2811833
TSS32GY	2811863
TSS32RE	2811682
TSS32TR	2811772
TSS32WH	2811712
TSS32Y/G	2811920
TSS32YE	2811802
TSS380BK	2811666
TSS380BR	2811906
TSS380BU	2811756
TSS380GN	2811847
TSS380GY	2811877
TSS380RE	2811696
TSS380TR	2811786
TSS380WH	2811726
TSS380Y/G	2811934
TSS380YE	2811816
TSS48BK	2811654
TSS48BR	2811894
TSS48BU	2811744
TSS48GN	2811835
TSS48GY	2811865
TSS48RE	2811684
TSS48TR	2811774
TSS48WH	2811714
TSS48Y/G	2811922
TSS48YE	2811804
TSS510BK	2811668
TSS510BR	2811908
TSS510BU	2811758
TSS510GN	2811849
TSS510GY	2811879
TSS510RE	2811698
TSS510TR	2811788
TSS510WH	2811728
TSS510YE	2811818
TSS64BK	2811656
TSS64BR	2811896
TSS64BU	2811746
TSS64GN	2811837
TSS64GY	2811867
TSS64RE	2811686
TSS64TR	2811776
TSS64WH	2811716
TSS64Y/G	2811924
TSS64YE	2811806
TSS95BK	2811658
TSS95BR	2811898
TSS95BU	2811748
TSS95GN	2811839
TSS95GY	2811869
TSS95RE	2811688
TSS95TR	2811778
TSS95WH	2811718
TSS95Y/G	2811926
TSS95YE	2811808
UKC4	3065300
UPC180-KV	3065250
UPC200-KV	3065252
UP130-120	2616520
UP130-150	2616530
UP130-185	2616550
UP130-240	2616560
UP130-50	2616470
UP130-70	2616490
UP130-95	2616500
USB-CABLE	6006309
VAL-04	2593310
VAL-096	2593669
VAL-1000	2593426
VAL-130	2610450
VAL-130-U	2610451
VAL-160	2593405
VAL-22-TC120	2593391
VAL-450	2593424
VAL-520	2593410
VAL-600	2593425
VAL-75	2600110
VAL-B-TC950	2593704
VAL-CP096	2593671
VAL-ECW-H3D	2593421
VAL-FC470	2593710
VALMAT-520	2593411
VAL-P1	2590595
VAL-P10	2590620
VAL-P18	2590628
VAL-P21	2874156
VAL-P22	2874157
VAL-P26	2590635
VAL-P28	2590639
VAL-P29	2590641
VAL-P3	2590610
VAL-P30	2590642
VAL-P38	2590650
VAL-P39	2590651
VAL-P4	2590612
VAL-P40	2590652
VAL-P44	2590654
VAL-P48	2590655
VAL-P51	2590658
VAL-P54	2590661
VAL-P56	2590665
VAL-P57	2590663
VAL-P59	2590667
VAL-P7	2590616
VAL-GPT	3065010
VAL-GPTA-N	3065013
VAL-GPTP	3064980
VAL-GPTS	3065015
VALSTAR-N1	2590775
VALSTAR-N2	2590776
VALSTAR-N3	2590777
VALSTAR-N4	2590778
VALSTAR-N5	2590919
VALSTAR-R3/IDT	2590593
VALSTAR-ZETA	2844005
VAL-TC055	2593325
VAL-TC085	2593323
VAL-TC120	2593322
VP-M2	2048010
VP-M3	2048030
VP-M3.5	2048070
VP-M4	2048150
VP-M5	2048190
VP-M6	2048210
VP-P10	2049210
VP-PP12/19	2049370
VP-U3	2048630
VP-U3.5	2048670
VP-U4	2048710
WL03-M	2469780
WL06-M	2469785
WL1-M	2469790
WLM-WE	8420050
WT2-3D	2636970
WPC250-KV	3065265
WSC180-KV	3065338
Z10-1	2845030
Z16-1	2845040
Z16-12	2844156
Z16-12D	2844157
Z16-3	2844115
Z16-3D	2844116
Z16-4	2844130
Z16-4D	2844131
Z16-5N	2844122
Z16-5ND	2844123
Z16-8	2844140
Z16-8D	2844141
Z2.5-1	2845010
Z25-1	2845050
Z25-DP7-100	2845180
Z35-1	2845060
Z35-26D	2844216
Z35-3	2844205
Z35-3D	2844206
Z35-4	2844201
Z35-4D	2844202
Z35-6	2844210
Z35-6D	2844211
Z35-DP14-125	2845210
Z35-DP14B-125	2845212
Z35T-11	2844220
Z35T-11D	2844221
Z50-10D	2844230
Z50-DP12-160	2845220
Z6-1	2845020
Z6-10	2844106
Z6-10D	2844107
Z6-3	2844080
Z6-3D	2844081
Z6-5	2844100
Z6-5D	2844101
Z6-6	2844108
Z6-6D	2844109
ZKE2	2590710
ZKE610N	2590722
ZKE616N	2590724
ZKE6-F	2590716
ZP2	2590760

Comparison of AWG, MCM and Metric conductor cross sections

CONDUCTORS SECTIONS					
Conversion Table AWG, MCM / mm²					
[AWG]	Actual conductor csa mm²	Comparable metric csa mm²	[MCM]	Actual conductor csa mm²	Comparable metric csa mm²
27	0.10		250	127	120
26	0.13	0.14	300	152	150
25	0.16	-	350	177	185
24	0.21	0.2	400	203	-
23	0.26	0.25	500	253	240
22	0.33	0.34	600	304	300
21	0.41	-	700	355	-
20	0.52	0.5	800	405	400
19	0.65	-	900	456	-
18	0.82	0.75	1000	507	500
17	1.04	1	1250	633	625
16	1.31	-	1500	760	800
15	1.65	1.5	1750	887	-
14	2.08	-	2000	1010	1000
13	2.63	2.5			
12	3.31	-			
11	4.15	4			
10	5.27	6			
9	6.62	-			
8	8.35	-			
7	10.6	10			
6	13.3	-			
5	16.8	16			
4	21.2	-			
3	26.7	25			
2	33.6	35			
1	42.4	-			
1/0	53.4	50			
2/0	67.5	70			
3/0	85.0	95			
4/0	107.2	120			

MAXIMUM DIAMETERS OF CIRCULAR COPPER CONDUCTORS: SOLID, NON COMPACTED STRANDED AND FLEXIBLE			
Cross sectional area [mm²]	Conductors in cables for fixed installations		Flexible conductors (Classes 5 and 6) Maximum diameter [mm]
	Solid (Class 1) Maximum diameter [mm]	Stranded (Class 2) Maximum diameter [mm]	
0.5	0.9	1.1	1.1
0.75	1	1.2	1.3
1	1.2	1.4	1.5
1.5	1.5	1.7	1.8
2.5	1.9	2.2	2.4
4	2.4	2.7	3
6	2.9	3.3	3.9
10	3.7	4.2	5.1
16	4.6	5.3	6.3
25 [a]	5.7	6.6	7.8
35 [a]	6.7	7.9	9.2
50 [a]	7.8	9.1	11
70 [a]	9.4	11	13.1
95 [a]	11	12.9	15.1
120 [a]	12.4	14.5	17
150 [a]	13.8	16.2	19
185	15.4	18	21
240	17.6	20.6	24
300	19.8	23.1	27
400	22.2	26.1	31
500	-	29.2	35
630	-	33.2	39
800	-	37.6	-
1000	-	42.2	-

NOTE: The values given for flexible conductors represent both class 5 and class 6 conductors.

[a] Solid copper conductor shaving cross-sectional areas of 25 mm² and above are for particular types of cable, e.g. mineral insulated, and not for general purposes.

MINIMUM AND MAXIMUM DIAMETERS OF STRANDED COMPACTED CIRCULAR COPPER, ALUMINIUM AND ALUMINIUM ALLOY CONDUCTORS		
Cross-sectional area [mm²]	Stranded compacted circular conductors (Class 2)	
	Minimum diameter [mm]	Maximum diameter [mm]
10	3.6	4.0
16	4.6	5.2
25	5.6	6.5
35	6.6	7.5
50	7.7	8.6
70	9.3	10.2
95	11.0	12.0
120	12.3	13.5
150	13.7	15.0
185	15.3	16.8
240	17.6	19.2
300	19.7	21.6
400	22.3	24.6
500	25.3	27.6
630	28.7	32.5

NOTES: - The dimensional limits of Aluminium conductors with cross-sectional areas above 630 mm² are not given as the compaction technology is not generally estabilished.

- The values are given for compacted copper conductors in the size range 1,5 mm² to 6 mm².

MINIMUM AND MAXIMUM DIAMETERS OF CIRCULAR ALUMINIUM CONDUCTORS		
Cross-sectional area [mm²]	Solid conductors (Class 1)	
	Minimum diameter [mm]	Maximum diameter [mm]
10	3.4	3.7
16	4.1	4.6
25	5.2	5.7
35	6.1	6.7
50	7.2	7.8
70	8.7	9.4
95	10.3	11.0
120	11.6	12.4
150	12.9	13.8
185	14.5	15.4
240	16.7	17.6
300	18.8	19.8
400	21.2	22.2
500	24.0	25.1
630	27.3	28.4
800	30.9	32.1
1000	34.8	36.0
1200	37.8	39.0

IEC 60228 : 2004 - 11 conductor tables

CLASS 1: SOLID CONDUCTORS FOR SINGLE-CORE AND MULTI-CORE CABLES			
Nominal cross-sectional [mm²]	Maximum resistance of conductor at 20 °C		
	Circular, annealed Copper conductors		Aluminium and Aluminium alloy conductors, circular or shaped c [ohm/km]
	Plain [ohm/km]	Metal [ohm/km]	
0.5	36	36.7	-
0.75	24.5	24.8	-
1	18.1	18.2	-
1.5	12.1	12.2	-
2.5	7.41	7.56	-
4	4.61	4.70	-
6	3.08	3.11	-
10	1.83	1.84	3.08 a
16	1.15	1.16	1.91 [a]
25	0.727 [b]	-	1.20 [a]
35	0.524 [b]	-	0.868 [a]
50	0.387 [b]	-	0.641
70	0.268 [b]	-	0.443
95	0.193 [b]	-	0.320 d
120	0.153 [b]	-	0.253 d
150	0.124 [b]	-	0.206 d
185	0.101 [b]	-	0.164 d
240	0.0775 [b]	-	0.125 d
300	0.0620 b	-	0.100 d
400	0.0465 b	-	0.0778
500	-	-	0.0605
630	-	-	0.0469
800	-	-	0.0367
1000	-	-	0.0291
1200	-	-	0.0247

[a] *Aluminium conductors 10 mm² to 35 mm² circular only*

[b] *Solid Copper conductors having nominal cross-sectional area of 25 mm² and above are for particular types of cable, e.g. mineral insulated, and not for general purposes.*

[c] *For solid Aluminium alloy conductors, having the same nominal cross-sectional area as an Aluminium conductor, the resistance value given in the table should be multiplied by a factor of 1,162 unless otherwise agreed between the manufacturer and the purchaser.*

[d] *For single core cables, four sectoral shaped conductors may be assembled into a single circular conductor. The maximum resistance of the assembled conductor shall be 25% of that of the individual component conductors.*

CLASS 2: STRANDED CONDUCTORS FOR SINGLE-CORE AND MULTI-CORE CABLES									
Nominal cross-sectional area [mm²]	Minimum number of wires in the conductor						Maximum resistance of conductor at 20 °C		
	Circular		Circular compacted		Shaped		Annealed copper conductor		Aluminium or aluminium alloy conductor [c] [ohm/km]
	Cu	Al	Cu	Al	Cu	Al	Plain wires [ohm/km]	Metal-coated wires [ohm/km]	
0.5	7	-	-	-	-	-	36.0	36.7	-
0.75	7	-	-	-	-	-	24.5	24.8	-
1.0	7	-	-	-	-	-	18.1	18.2	-
1.5	7	-	6	-	-	-	12.1	12.2	-
2.5	7	-	6	-	-	-	7.41	7.56	-
4	7	-	6	-	-	-	4.61	4.70	-
6	7	-	6	-	-	-	3.08	3.11	-
10	7	7	6	6	-	-	1.83	1.84	3.08
16	7	7	6	6	-	-	1.15	1.16	1.91
25	7	7	6	6	6	6	0.727	0.734	1.20
35	7	7	6	6	6	6	0.524	0.529	0.868
50	19	19	6	6	6	6	0.387	0.391	0.641
70	19	19	12	12	12	12	0.268	0.270	0.443
95	19	19	15	15	15	15	0.193	0.195	0.320
120	37	37	18	15	18	15	0.153	0.154	0.253
150	37	37	18	15	18	15	0.124	0.126	0.206
185	37	37	30	30	30	30	0.0991	0.100	0.164
240	61	61	34	30	34	30	0.0754	0.0762	0.125
300	61	61	34	30	34	30	0.0601	0.0607	0.100
400	61	61	53	53	53	53	0.0470	0.0475	0.0778
500	61	61	53	53	53	53	0.0366	0.0369	0.0605
630	91	91	53	53	53	53	0.0283	0.0286	0.0469
800	91	91	53	53	-	-	0.0221	0.0224	0.0367
1000	91	91	53	53	-	-	0.0176	0.0177	0.0291
1200				b			0.0151	0.0151	0.0247
1400 a				b			0.0129	0.0129	0.0212
1600				b			0.0113	0.0113	0.0186
1800 a				b			0.0101	0.0101	0.0165
2000				b			0.0090	0.0090	0.0149
2500				b			0.0072	0.0072	0.0127

[a] *Non-preferred sizes. Other non-preferred sizes are recognized for some specialized applications but are not within the scope of this standard.*

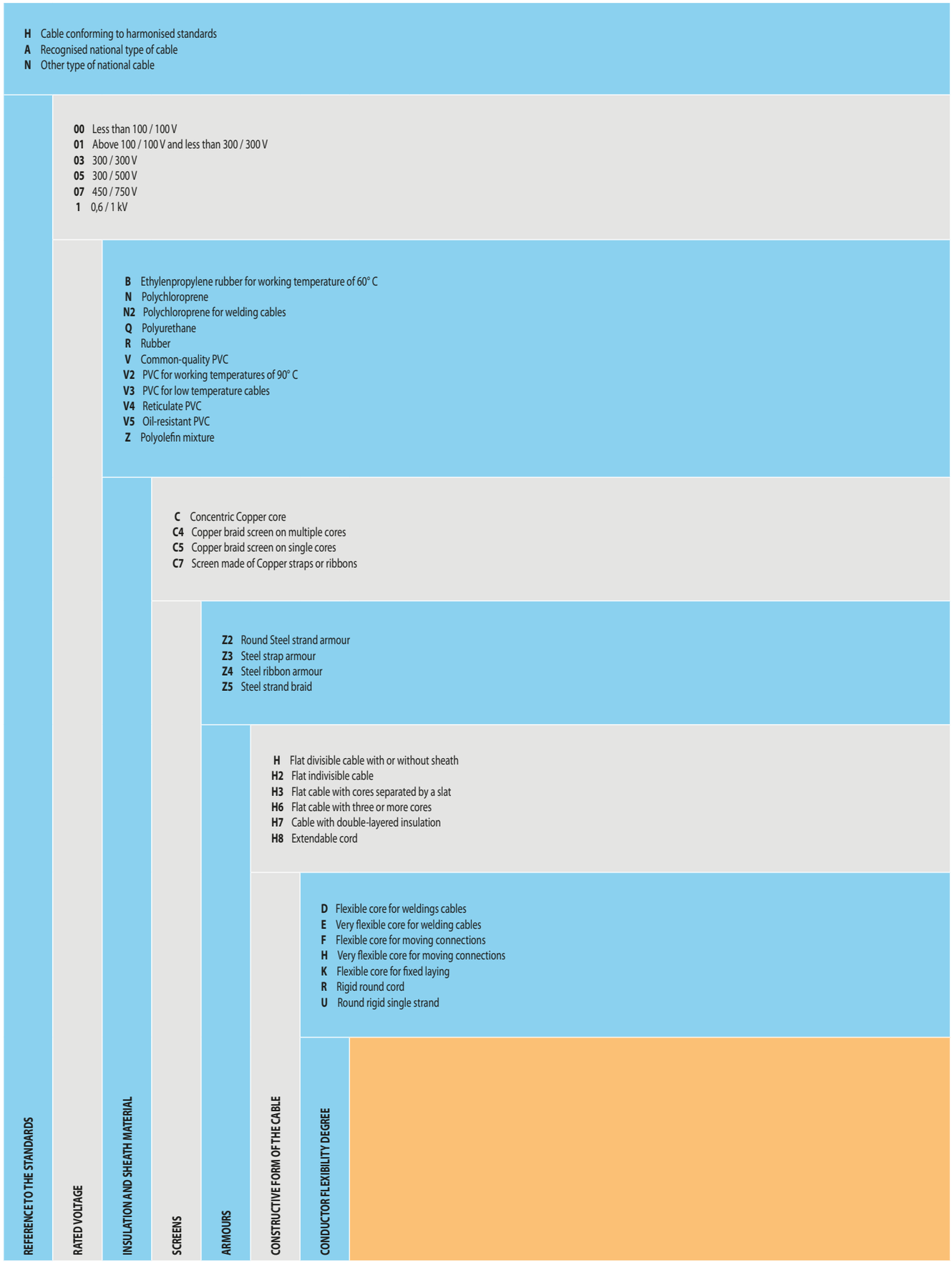
[b] *The minimum number of wires for these sizes is not specified. These sizes may be constructed from 4, 5 or 6 equal segments (Milliken).*

[c] *For stranded Aluminium alloy conductors having the same nominal cross-sectional area as an Aluminium conductor the resistance value should be agreed between the manufacturer and the purchaser.*

CLASS 5:			
FLEXIBLE COPPER CONDUCTORS FOR SINGLE-CORE AND MULTI-CORE CABLES			
Nominal cross-sectional [mm²]	Maximum diameter of wires in conductor [mm]	Maximum resistance of conductor at 20 °C	
		Plain wires [ohm/km]	Metal-coated wires [ohm/km]
0.5	0.21	39	40.1
0.75	0.21	26	26.7
1	0.21	19.5	20
1.5	0.26	13.3	13.7
2.5	0.26	7.98	8.21
4	0.31	4.95	5.09
6	0.31	3.3	3.39
10	0.41	1.91	1.95
16	0.41	1.21	1.24
25	0.41	0.78	0.795
35	0.41	0.554	0.565
50	0.41	0.386	0.393
70	0.51	0.272	0.277
95	0.51	0.206	0.21
120	0.51	0.161	0.164
150	0.51	0.129	0.132
185	0.51	0.106	0.108
240	0.51	0.080	0.081
300	0.51	0.064	0.065
400	0.51	0.048	0.049
500	0.61	0.038	0.039
630	0.61	0.028	0.029

CLASS 6:			
FLEXIBLE COPPER CONDUCTORS FOR SINGLE-CORE AND MULTI-CORE CABLES			
Nominal cross-sectional [mm²]	Maximum diameter of wires in conductor [mm]	Maximum resistance of conductor at 20 °C	
		Plain wires [ohm/km]	Metal-coated wires [ohm/km]
0.5	0.16	39	40.1
0.75	0.16	26	26.7
1	0.16	19.5	20
1.5	0.16	13.3	13.7
2.5	0.16	7.98	8.21
4	0.16	4.95	5.09
6	0.21	3.3	3.39
10	0.21	1.91	1.95
16	0.21	1.21	1.24
25	0.21	0.78	0.795
35	0.21	0.554	0.565
50	0.31	0.386	0.393
70	0.31	0.272	0.277
95	0.31	0.206	0.21
120	0.31	0.161	0.164
150	0.31	0.129	0.132
185	0.41	0.106	0.108
240	0.41	0.080	0.081
300	0.41	0.064	0.065

System of denomination of harmonised cables according to CENELEC HD 361



UL and VDE marking of cable glands

MAXIblock® spiralblock®

Type (°)	Thread	COMPRESSION RANGE Ø (min-max) Nominal [mm]	UL 514B [mm]	UL 514B [inches]	EN 62444 [mm]	IMPACT CATEGORY (*)	MARKING
1900.M12	M12x1,5	3,5-7	4,5	0.18	3,5-7	1	**USR-CNR / VDE**
1900.M16	M16x1,5	5-10	7	0.28	7-10	1	**USR-CNR / VDE**
1900.M20	M20x1,5	7-13	13	0.51	8-13	3	**USL-CNL / VDE**
1900.M25	M25x1,5	10-17	17	0.67	10-17	3	**USL-CNL / VDE**
1900.M32	M32x1,5	13-21	15-21	0.60-0.83	15-21	3	**USL-CNL / VDE**
1900.M40	M40x1,5	19-28	21-28	0.83-1.10	19-28	3	**USL-CNL / VDE**
1900.M50	M50x1,5	27-35	27-34	1.06-1.34	27-35	3	**USL-CNL / VDE**
1900.M63	M63x1,5	34-45	35	1.38	34-45	3	**USL-CNL / VDE**
1910.M12	M12x1,5	2-5	3-5	0.12-0.20	2-5	1	**USR-CNR / VDE**
1910.M16	M16x1,5	3-7	5-7	0.20-0.28	5-7	1	**USR-CNR / VDE**
1910.M20	M20x1,5	5-10	5-10	0.20-0.40	6-10	3	**USR-CNR / VDE**
1910.M25	M25x1,5	7-13	6-13	0.24-0.51	7-13	3	**USR-CNR / VDE**
1910.M32	M32x1,5	8-14	7-14	0.28-0.55	8-14	3	**USR-CNR / VDE**
1910.M40	M40x1,5	15-23	17-23	0.67-0.91	15-23	3	**USL-CNL / VDE**
1910.M50	M50x1,5	20-29	20-29	0.79-1.14	21-29	3	**USL-CNL / VDE**
1910.M63	M63x1,5	27-39	29-35	1.14-1.38	28-39	3	**USL-CNL / VDE**
1901.M12	M12x1,5	3,5-7	4,5	0.18	3,5-7	1	**USR-CNR / VDE**
1901.M16	M16x1,5	5-10	7	0.28	7-10	1	**USR-CNR / VDE**
1901.M20	M20x1,5	7-13	13	0.51	8-13	3	**USL-CNL / VDE**
1901.M25	M25x1,5	10-17	17	0.67	10-17	3	**USL-CNL / VDE**
1901.M32	M32x1,5	13-21	15-21	0.60-0.83	15-21	3	**USL-CNL / VDE**
1901.M40	M40x1,5	19-28	21-28	0.83-1.10	19-28	3	**USL-CNL / VDE**
1901.M50	M50x1,5	27-35	27-34	1.06-1.34	27-35	3	**USL-CNL / VDE**
1901.M63	M63x1,5	34-45	35	1.38	34-45	3	**USL-CNL / VDE**
1500.M12	M12x1,5	3,5-7	4,5	0.18	3,5-7	1	**USR-CNR / VDE**
1500.M16	M16x1,5	5-10	7	0.28	7-10	1	**USR-CNR / VDE**
1500.M20	M20x1,5	7-13	13	0.51	8-13	3	**USL-CNL / VDE**
1500.M25	M25x1,5	10-17	17	0.67	10-17	3	**USL-CNL / VDE**
1500.M32	M32x1,5	13-21	15-21	0.60-0.83	15-21	3	**USL-CNL / VDE**

MAXIblock® spiralblock®

Type (°)	Thread	COMPRESSION RANGE Ø (min-max) Nominal [mm]	UL 514B [mm]	UL 514B [inches]	MARKING
1900.07	Pg 7	3,5-7	4.5-6.5	0.18-0.25	**USR-CNR**
1900.09	Pg 9	5-8	6-8	0.24-0.31	**USR-CNR**
1900.11	Pg 11	5-10	6.5-9.5	0.26-0.37	**USR-CNR**
1900.13	Pg 13,5	7-12	8-11.5	0.31-0.45	**USL-CNL**
1900.16	Pg 16	10-14	10.5-14	0.41-0.55	**USL-CNL**
1900.21	Pg 21	13-18	13-18	0.51-0.71	**USL-CNL**
1900.29	Pg 29	18-25	22-25	0.87-0.98	**USL-CNL**
1900.36	Pg 36	20-32	21.5-32	0.85-1.26	**USR-CNR**
1900.42	Pg 42	28-38	32-38	1.26-1.49	**USL-CNL**
1900.48	Pg 48	34-45	35	1.38	**USL-CNL**
1910.07	Pg 7	2-5	3-5	0.12-0.20	**USR-CNR**
1910.11	Pg 11	4-7	4-7	0.16-0.28	**USR-CNR**
1910.13	Pg 13,5	5-10	10	0.39	**USR-CNR**
1910.21	Pg 21	9-15	10-14	0.39-0.55	**USR-CNR**
1910.36	Pg 36	18-26	18-26	0.71-1.02	**USR-CNR**
1910.42	Pg 42	25-31	25-31	0.98-1.22	**USL-CNL**
1901.07	Pg 7	3.5-7	6.5	0.26	**USR-CNR**
1901.09	Pg 9	5-8	6-8	0.24-0.31	**USR-CNR**
1901.11	Pg 11	5-10	6.5-9.5	0.26-0.37	**USR-CNR**
1901.13	Pg 13,5	7-12	8-11.5	0.31-0.45	**USL-CNL**
1901.16	Pg 16	10-14	10.5-14	0.41-0.55	**USL-CNL**
1901.21	Pg 21	13-18	13-18	0.51-0.71	**USL-CNL**
1901.29	Pg 29	18-25	22-25	0.87-0.98	**USL-CNL**
1901.36	Pg 36	20-32	21.5-32	0.85-1.26	**USR-CNR**
1901.42	Pg 42	28-38	32-38	1.26-1.49	**USL-CNL**
1901.48	Pg 48	34-45	35	1.38	**USL-CNL**
1500.07	Pg 7	3,5-7	4.5-6.5	0.18-0.25	**USR-CNR**
1500.09	Pg 9	5-8	6-8	0.24-0.31	**USR-CNR**
1500.11	Pg 11	5-10	6.5-9.5	0.26-0.37	**USR-CNR**
1500.13	Pg 13,5	7-12	8-11.5	0.31-0.45	**USL-CNL**
1500.16	Pg 16	10-14	10.5-14	0.41-0.55	**USL-CNL**
1500.21	Pg 21	13-18	13-18	0.51-0.71	**USL-CNL**
1900.14	G1/4"	3-6,5	4.5-6.5	0.18-0.25	**USR-CNR**
1900.38	G3/8"	4-8	6-8	0.24-0.31	**USR-CNR**
1900.12	G1/2"	7-12	8-11.5	0.31-0.45	**USL-CNL**
1900.34	G3/4"	13-18	13-18	0.51-0.71	**USL-CNL**
1901.12	G1/2"	7-12	8-11.5	0.31-0.45	**USL-CNL**
1500.14	G1/4"	3-6,5	4.5-6.5	0.18-0.25	**USR-CNR**
1500.38	G3/8"	4-8	6-8	0.24-0.31	**USR-CNR**
1500.12	G1/2"	7-12	8-11.5	0.31-0.45	**USL-CNL**
1500.34	G3/4"	13-18	13-18	0.51-0.71	**USL-CNL**

MAXIbrass®

Type	Thread	COMPRESSION RANGE Ø (min-max) Nominal [mm]	UL 514B [mm]	UL 514B [inches]	MARKING
2900.07N	Pg 7	3-7	3-7	0.12-0.28	**USR-CNR**
2900.09N	Pg 9	4-8	4-8	0.16-0.31	**USR-CNR**
2900.11N	Pg 11	4,5-10	6-10	0.24-0.39	**USR-CNR**
2900.13N	Pg 13,5	5-12	10-12	0.39-0.47	**USL-CNL**
2900.16N	Pg 16	7-13	10-13	0.39-0.51	**USL-CNL**
2900.21N	Pg 21	10-17	12-17	0.47-0.67	**USL-CNL**
2900.29N	Pg 29	17-25	18-25	0.71-0.98	**USL-CNL**
2900.36N	Pg 36	20-32	23-32	0.91-1.26	**USL-CNL**
2900.42N	Pg 42	28-38	28-35	1.10-1.38	**USL-CNL**
2900.48N	Pg 48	34-45	34-45	1.33-1.77	**USL-CNL**
2910.07N	Pg 7	1-5	2-5	0.08-0.20	**USR-CNR**
2910.09N	Pg 9	2-6	3-6	0.12-0.24	**USR-CNR**
2910.11N	Pg 11	2,5-7	3,5-7	0.14-0.28	**USR-CNR**
2910.13N	Pg13,5	4-10	5,5-10	0.22-0.39	**USR-CNR**
2910.16N	Pg 16	5-10	6-10	0.24-0.39	**USR-CNR**
2910.21N	Pg 21	6-13	7-13	0.28-0.51	**USR-CNR**
2910.29N	Pg 29	11-20	12-20	0.47-0.79	**USR-CNR**
2910.36N	Pg 36	18-26	19-26	0.75-1.02	**USL-CNL**
2910.42N	Pg 42	24-31	24-31	0.94-1.22	**USL-CNL**
2910.48N	Pg 48	27-39	31-39	1.22-1.54	**USL-CNL**
2901.07N	Pg 7	3-7	3-7	0.12-0.28	**USR-CNR**
2901.09N	Pg 9	4-8	4-8	0.16-0.31	**USR-CNR**
2901.11N	Pg 11	4,5-10	6-10	0.24-0.39	**USR-CNR**
2901.13N	Pg13,5	5-12	10-12	0.39-0.47	**USL-CNL**
2901.16N	Pg 16	7-13	10-13	0.39-0.51	**USL-CNL**
2901.21N	Pg 21	10-17	12-17	0.47-0.67	**USL-CNL**
2901.29N	Pg 29	17-25	18-25	0.71-0.98	**USL-CNL**
2901.36N	Pg 36	20-32	23-32	0.91-1.26	**USL-CNL**
2901.42N	Pg 42	28-38	28-35	1.10-1.38	**USL-CNL**
2911.07N	Pg 7	1-5	2-5	0.08-0.20	**USR-CNR**
2911.09N	Pg 9	2-6	3-8	0.12-0.31	**USR-CNR**
2911.11N	Pg 11	2,5-7	3,5-7	0.14-0.28	**USR-CNR**
2911.13N	Pg13,5	4-10	5,5-10	0.22-0.39	**USR-CNR**
2911.16N	Pg 16	5-10	6-10	0.24-0.39	**USR-CNR**
2911.21N	Pg 21	6-13	7-13	0.28-0.51	**USR-CNR**
2911.29N	Pg29	11-20	12-20	0.47-0.79	**USR-CNR**
2911.36N	Pg36	18-26	19-26	0.75-1.02	**USL-CNL**
2911.42N	Pg42	24-31	24-31	0.94-1.22	**USL-CNL**

MAXIbrass®

Type	Thread	COMPRESSION RANGE Ø (min-max) Nominal [mm]	UL 514B [mm]	UL 514B [inches]	EN 62444 [mm]	IMPACT CATEGORY (*)	MARKING
2900.M12N	M12x1,5	3-7	3-7	0.12-0.28	3-7	5	**USR-CNR / VDE**
2900.M16N	M16x1,5	4,5-10	6-10	0.24-0.39	4,5-10	6	**USR-CNR / VDE**
2900.M20N	M20x1,5	7-13	8-13	0.31-0.51	7-13	6	**USL-CNL / VDE**
2900.M25N	M25x1,5	10-17	13-17	0.51-0.67	11-17	6	**USL-CNL / VDE**
2900.M32N	M32x1,5	11-21	13-21	0.51-0.83	13-21	6	**USL-CNL / VDE**
2900.M40N	M40x1,5	19-28	21-28	0.83-1.10	19-28	6	**USL-CNL / VDE**
2900.M50N	M50x1,5	26-35	27-35	1.06-1.38	26-35	6	**USL-CNL / VDE**
2900.M63N	M63x1,5	34-45	34-45	1.33-1.77	34-45	6	**USL-CNL / VDE**
2910.M12N	M12x1,5	1-5	2-5	0.08-0.20	2-5	5	**USR-CNR / VDE**
2910.M16N	M16x1,5	2,5-7	3,5-7	0.14-0.28	4-7	6	**USR-CNR / VDE**
2910.M20N	M20x1,5	5-10	5-10	0.20-0.39	5,5-10	6	**USR-CNR / VDE**
2910.M25N	M25x1,5	6-13	8-13	0.31-0.51	6-13	6	**USR-CNR / VDE**
2910.M32N	M32x1,5	7-14	7-14	0.28-0.55	9-14	6	**USR-CNR / VDE**
2910.M40N	M40x1,5	13-23	15-23	0.59-0.90	17-23	6	**USL-CNL / VDE**
2910.M50N	M50x1,5	20-29	20-29	0.79-1.14	25-29	6	**USL-CNL / VDE**
2910.M63N	M63x1,5	27-39	28-39	1.10-1.54	31-39	6	**USL-CNL / VDE**
2901.M12N	M12x1,5	3-7	3-7	0.12-0.28	3-7	5	**USR-CNR / VDE**
2901.M16N	M16x1,5	4,5-10	6 -10	0.24-0.39	4,5-10	6	**USR-CNR / VDE**
2901.M20N	M20x1,5	7-13	8-13	0.31-0.51	7-13	6	**USL-CNL / VDE**
2901.M25N	M25x1,5	10-17	13-17	0.51-0.67	11-17	6	**USL-CNL / VDE**
2901.M32N	M32x1,5	11-21	13-21	0.51-0.83	13-21	6	**USL-CNL / VDE**
2901.M40N	M40x1,5	19-28	21-28	0.83-1.10	19-28	6	**USL-CNL / VDE**
2901.M50N	M50x1,5	26-35	27-35	1.06-1.38	26-35	6	**USL-CNL / VDE**
2911.M12N	M12x1,5	1-5	2-5	0.08-0.20	2-5	5	**USR-CNR / VDE**
2911.M16N	M16x1,5	2,5-7	3,5-7	0.14-0.28	4-7	6	**USR-CNR / VDE**
2911.M20N	M20x1,5	5-10	5-10	0.20-0.39	5,5-10	6	**USR-CNR / VDE**
2911.M25N	M25x1,5	6-13	8-13	0.31-0.51	6-13	6	**USR-CNR / VDE**
2911.M32N	M32x1,5	7-14	7-14	0.28-0.55	9-14	6	**USR-CNR / VDE**
2911.M40N	M40x1,5	13-23	15-23	0.59-0.90	17-23	6	**USL-CNL / VDE**
2911.M50N	M50x1,5	20-29	20-29	0.79-1.14	25-29	6	**USL-CNL / VDE**

VDE: Licence nos 40008472, 40008474, 40008475 and 40008476

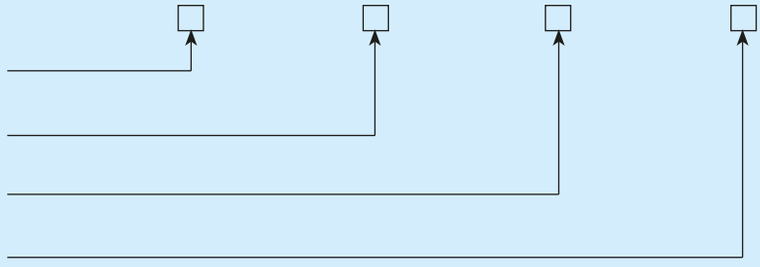
USL-CNL: UL LISTING file no E220310; control no 48SB valid in USA & Canada

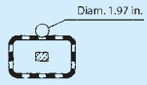
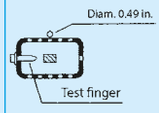
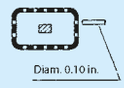
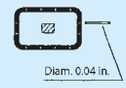
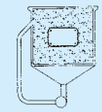
USR-CNR: UL RECOGNITION file no E220310 valid in USA & Canada (with reduced tightening force)

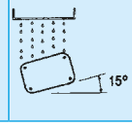
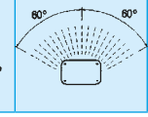
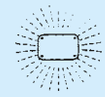
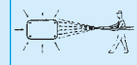
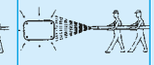
(°) Add to Ref: N for Black, G for Dark Grey

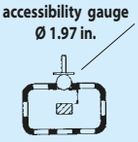
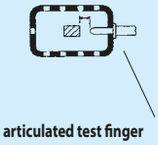
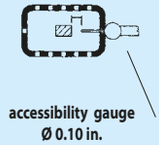
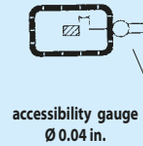
(*) EN 62444 § 9.5

Ingress protection (IP) rating according to EN 60529 - CEI 70-1

IP CODE	
The first digit (0-6 or X letter): Protection against ingress of solid matter	
Second digit (0-8 or X letter): Protection against ingress of liquids	
(A, B, C, D) for future use. Restricted entry to dangerous parts:	
(H,M,S,W) for future use. Specific criteria:	

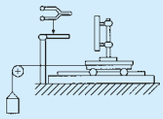
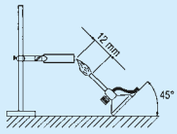
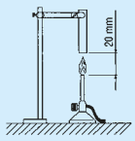
1st CHARACTERISTIC NUMBER:							
PROTECTION AGAINST INGRESS OF SOLID MATTER							
PROTECTION	**0**	**1**	**2**	**3**	**4**	**5**	**6**
Protection against ingress of solid matter caused by		solid bodies measuring over 1.97 in.	solid bodies measuring over 0.49 in.	solid bodies measuring over 0.10 in.	solid bodies measuring over 0.04 in.	powder in harmful quantities	Powder (completely protected)
Test method		 Accessibility gauge ø 1.97 in.	 Accessibility gauge ø 0.49 in.	 Accessibility gauge ø 0.10 in.	 Accessibility gauge ø 0.04 in.	 talcum powder	talcum powder

2nd CHARACTERISTIC NUMBER:									
PROTECTION AGAINST INGRESS OF LIQUIDS									
PROTECTION	**0**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**
Protection against ingress of liquids caused by		Drops of water falling vertically	Vertical drops of water with inclination of casing up to 15°	Rain	Sprays of water	Jets of water	Powerful jets of water	Temporary Immersion	Permanent Immersion
Test method									Agreement between manufacturer and user but more severe than 7

1st ADDITIONAL LETTER:				
RESTRICTED ENTRY TO DANGEROUS PARTS				
RESTRICTED ENTRY	**A**	**B**	**C**	**D**
Restricted entry to dangerous parts caused by	back of hand	finger	tool	wire
Test method		 articulated test finger	 accessibility gauge Ø 0.10 in.	 accessibility gauge Ø 0.04 in.

2nd ADDITIONAL LETTER :				
MEANING OF THE SECOND ADDITIONAL LETTER				
SPECIFIC CRITERIA	**H**	**M**	**S**	**W**
Specific criteria	High voltage equipment	Tested against negative effects of water penetration, when the moveable parts of the equipment (e.g. wheels of a revolving machine) are moving	Tested against the negative effects of water penetration, when the moveable parts of the equipment (e.g. wheels of a revolving machine) are stationary	Suitable for use in environmental conditions as specified and equipped with additional measures of protection

Flammability test for products and materials

TYPE OF TEST	TEST EQUIPMENT	COMPLIANCE WITH STANDARDS	OBJECTIVE OF TEST	TEST RESULTS	TEST CONDITIONS		
					heat source	length of test	characteristic features
CHARACTERISTIC FEATURES		IEC 695-2-1 CEI 50-11 DIN VDE 0471-2-1	Check that abnormal heating produced by overcurrent and bad contacts does not compromise the safety of the insulating material. Lighting test. The wire is pressed against the sample using force and penetrates up to 7 mm.	Any sign of flame starting must stop within 30 sec. of removing the glowing wire. TEST TEMPERATURE • 650° for materials which do not support parts under tension • 750° for materials which support parts under tension of moving sockets and plugs • 850° for materials which support parts under tension of fixed sockets and switches	Glow-wire 4 mm in diameter	Wire applied for 30 seconds	Flame extinction time
NEEDLE FLAME		IEC 695-2-1 CEI 50-11	Simulates the effect small flames have which may occur due to internal faults of products in order to judge the fire risk.	• the sample does not catch fire • the flame and incandescent particles do not spread the fire • combustion lasts less than 30 seconds	Bunsen burner flame	Flame applied for (Ta) 5, 10, 20, 30, 60, 120 sec. According to particular standards	The degree of severity: flame application time (Ta)
UL (UNDERWRITER' LABORATORIES)		UL 94	Measuring of time the sample continues to burn after the direct flame has been removed.	• V0 if the sample burns for less than 5 sec. before going out. • V1 if it burns for less than 25 sec. • V2 if it burns for less than 25 sec. With incandescent drops • HB if it burns for more than 25 sec. (horizontal sample and burning speed less than 38 mm per minute) Comparable to ASTM D-635	Bunsen burner flame	Flame applied for 10 seconds twice following	Length of combustion

Recommended torque settings for cable glands

MAXIblock®, spiralblock®, MAXIbrass®, MAXIinox METRIC THREADS, TO OBTAIN IP68 INGRESS PROTECTION IN ACCORDANCE WITH EN 50262			
	THREAD CABLE GLAND	CABLE GLAND	
		metallic	non-metallic
		torque (Nm)	
Torque values apply to mounting in a threaded entry and to use with a locknut	M12 x 1.5	6.0	2.7
	M16 x 1.5	6.0	5.0
	M20 x 1.5	8.0	7.0
	M25 x 1.5	8.0	7.5
	M32 x 1.5	18.0	8.0
	M40 x 1.5	18.0	8.0
	M50 x 1.5	18.0	15.0
	M63 x 1.5	25.0	15.0

MAXIblock®, spiralblock®, MAXIbrass®, MAXIinox PG THREADS, TO OBTAIN IP68 INGRESS PROTECTION IN ACCORDANCE WITH DIN VDE			
	THREAD CABLE GLAND	CABLE GLAND	
		metallic	non-metallic
		torque (Nm)	
Torque values apply to mounting in a threaded entry and to use with a locknut	Pg7	6.25	2.5
	Pg9	6.25	3.75
	Pg11	6.25	3.75
	Pg13.5	7.5	5.0
	Pg16	7.5	5.0
	Pg21	10.0	7.5
	Pg29	15.0	8.0
	Pg36	25.0	10.0
	Pg42	25.0	10.0
	Pg48	25.0	15.0

MAXIblock®, spiralblock® GAS THREADS, TO OBTAIN IP68 WITH REDUCED TIGHTENING FORCE			
	THREAD CABLE GLAND	NON-METALLIC CABLE GLAND	
		torque (Nm)	
Torque values apply to mounting in a threaded entry and to use with a locknut	G1/4"	4.0	
	G3/8"	5.0	
	G1/2"	6.0	
	G3/4"	10.0	

Cable glands installation:

1) Before proceeding with the installation, inspect the cable gland; installation must be performed by qualified personnel and with suitable tools.
2) Cable glands must be used in their original supplied condition with no modifications.
3) Torque values listed in the catalogue are intended as the recommended level for reaching the correct IP protection level and achieving the required cable retention properties. As the torque depends on the type of insulation of the conductor used, it is responsibility of the user to define the ideal torque for their specific application.
4) Both the body and head of the cable gland must be correctly tightened; excessive or reduced tightening may compromise the protection level and the cable retention performance.
5) Loosening a cable gland already installed and then tightening again may result in a reduction of the IP protection level achieved and compromise the cable retention properties. In these instances, we recommend replacement of the cable gland.

Discover other Cembre catalogs

Identification & Labelling

systems

the system includes:

- Thermal transfer printer for sheet media
- Thermal transfer printer for roll media
- Embosser
- Manual system
- Accessories
- Labels

CEMBRE

GENERAL TERMS AND CONDITIONS OF SALE

1. GENERAL TERMS

1.1. For the purpose of these GENERAL TERMS AND CONDITIONS OF SALE (the "Terms and Conditions"), the following definitions shall apply:
- «Seller»: CEMBRE Inc. (CEMBRE);
- «Buyer»: any professional or entrepreneur purchasing the Products from the Seller;
- «Product»: the goods manufactured and/or sold by the Seller;
- «Order(s)»: each proposal for the purchase of the Products submitted by the Buyer to the Seller in writing;
- «Sale(s)»: each single sale agreement entered into further to the receipt by the Buyer of the written order confirmation of the Seller.

1.2. These Terms and Conditions govern the sale of equipment, components, parts, and materials (the "Products") supplied by the Seller to the Buyer. Any specific supply agreement, order confirmation, quotation, these Terms and Conditions and the purchase order form the Sales Agreement ("Agreement") between the parties. In the event of a conflict between these documents, precedence shall apply in accordance with the order listed in the previous sentence.

1.3. CEMBRE's quotation, proposal or order confirmation is conditional on the Buyer's acceptance of these Terms and Conditions. Buyer's silence or acceptance/use of the Products or services related to any purchase order shall constitute tacit approval of these Terms and Conditions.

1.4. Any additional or conflicting terms included in the Buyer's request for quotation/proposal, specifications, purchase order or any other written or oral communication are not binding on CEMBRE unless separately signed by CEMBRE. CEMBRE's failure to object to Buyer's additional or conflicting terms (including the Buyer's Terms and Conditions of Purchase) does not operate as a waiver of any terms contained herein.

2. ORDERING PROCEDURES

2.1. Offers of the Supplier are not binding. This shall also apply if the Supplier has provided the Buyer with catalogs, technical documentation (e.g. drawings, plans, calculations, calculations, references to DIN standards), other product descriptions or documents - also in electronic form - to which the Supplier reserves property rights and copyrights pursuant to Clause 8.

2.2. Unless otherwise agreed, the information in offers and order confirmations shall refer to the contents of the respectively valid price lists, catalogs or other documents - also in electronic form, including technical data sheets, of the supplier.

2.3. All orders must be sent in writing and include all the details for a correct identification of the Products and Services requested. The minimum order amount is USD 250.

2.4. The order is an irrevocable proposal to buy, but it is accepted by the Seller only following order acknowledgement / confirmation or execution.

2.5. The Buyer may request in writing to cancel or modify the order only prior to its execution and the Seller may at its own discretion accept or reject such request. Only cancellations and modifications expressly accepted by the Seller in writing shall be valid and effective.

3. PRICING AND PAYMENT TERMS

3.1. Unless otherwise specified in writing, Seller's quotations have a 30-day validity, after which they will automatically expire.

3.2. Prices quoted in price-lists and marketing materials are not binding and cannot be considered a "public offer". Unless otherwise agreed in writing, prices are always quoted based on delivery term FCA (Incoterms latest version) net of any applicable statutory value added /goods and services tax and of any applicable taxes and duties.

3.3. The Seller reserves the right to update the price-list without prior notice; the new release of the price-list will apply to all the Orders placed after the date such new release is issued and sent to the Buyer. Invoices will be issued in accordance with the prices in force on the date of the order confirmation or as otherwise agreed in specific supply agreements.

3.4. If the Buyer does not pay within the agreed payment term, he will be in default of payment even without a reminder. In this case, the Supplier shall charge overdue interest at a rate of 9 percentage points above the prime rate - or the maximum interest rate allowed by the law, whichever is lower - and a lump sum for costs of up to USD 40.00. Any further claim for damages caused by delay shall remain unaffected.

3.5. In the event of payment arrears, suspension of payments and if circumstances become known which are likely to reduce the creditworthiness of the customer, the supplier shall be entitled, after having granted a period of grace, to declare all claims arising from the entire business relationship with the customer immediately due for payment. Discount agreements, rebates and the like shall be deemed forfeited in this case.

3.6. Failure to pay or delayed payments above 30 days also entitle the Seller to suspend the delivery of the Products and terminate every single Sale entered into. The suspension of the delivery of the Products or the termination of any Sale shall not entitle the Buyer to claim for any compensation.

3.7. Any complaints regarding the Products and/or their delivery shall not be grounds for suspending or delaying the payment.

3.8. In the event of default or risk of insolvency concerning the Buyer, the Seller will be entitled to:
- demand payment in advance or suitable guarantees; and/or
- suspend deliveries; and/or
- demand immediate payment of all the invoices already issued, regardless of the payment term therein indicated; and/or
- terminate any existing sale agreement.

4. DELIVERY

4.1. Except as otherwise agreed upon in writing between the parties, the Seller shall deliver the Products EX WORKS (INCOTERMS latest version). If required, the Seller shall take care of the shipment of the Products at the Buyer's costs and expenses. In this last case delivery shall be considered to have taken place when the Products are transferred to the forwarder.

4.2. In case of missing or damaged goods during transport, the Buyer must formulate all the necessary reservations on the delivery note of said goods at the time of delivery. Such reservations must also be confirmed in writing to the Seller within 48 hours of the date of the delivery, by registered mail with return receipt.

4.3. The Seller cannot be held liable for delays in deliveries in the following circumstances:
- acts of God or other extraordinary events beyond reasonable control, resulting in interruption of the manufacturing process, including shortage of energy and/or raw materials, pandemics strikes, embargoes or trade restrictions;
- delays due to the Buyer, particularly when the Buyer failed to provide the information required to execute the order;
- overdue payments, pursuant to Section 3.8 of these T&C.

4.4. Penalties for late delivery may be charged by the Buyer only when expressly agreed in a specific supply agreement, and in any case up to a maximum amount equal to the price of the delayed delivery.

4.5. The Buyer shall not reject partial deliveries or late deliveries. All costs resulting from the rejection of goods will be charged to the Buyer. Excess deliveries for the purpose of rounding up to the packing quantity shall be deemed to be contractual performance and shall be paid by Buyer.

4.6. Goods returned at the request of the Buyer can only be accepted if the Seller has agreed in writing. The returned parts must be in their original packaging, come from the current product range and be in saleable condition. The return shipment must be carriage paid and at the risk of the Buyer. From the purchase price to be refunded, a depreciation fee will be deducted based on the actual conditions of the goods, their age and original price. Depreciation shall not apply to goods returned under section 5 and 6 hereinafter, provided that the return was authorized by the Seller. Custom-made products or articles which are not included in the current catalogue will not be taken back. Returned goods that are not accepted by the Seller will be shipped back to Buyer or scrapped at the Buyer's choice (freight paid by the Buyer).

4.7. In the event of modifications to the order required by the Buyer, the delivery deadline will automatically be extended for the time necessary to implement the required modification.

5. CONFORMITY

5.1. Complaints about apparent defects or non-conformity of the product delivered in relation to the purchase order or the packing slip must be notified to the Seller in writing within 48 hours after receipt of the products, subject to forfeiture. The Buyer loses the right to claim if the goods are not inspected immediately after delivery.

5.2. In the absence of a specific agreement on quality, the features contained in a specification, a product-specific technical data sheet or an equivalent description by the Supplier shall be deemed to be the relevant quality. Insignificant deviations shall not constitute a defect.

6. WARRANTY AND LIABILITY

6.1. Unless otherwise agreed upon in writing, the Seller warrants that the Products are free from defects in material, design and manufacturing and fit for use. No guarantee is given herein by the Seller on the conformity of any Product with the law and regulations in countries outside the US. No other warranties, express or implied, are made with respect to the Products including, but not limited to, any implied warranty of merchantability or fitness for a particular purpose.

6.2. Unless otherwise agreed upon in writing, the warranty shall be valid for a period of one year from the date of delivery to the Buyer. Warranty is provided only on tools or machines with a serial number or other identification number that allows traceability. The warranty is, however, excluded if the Products have already been processed by the Buyer or incorporated in products, machinery or plants of the Buyer or of third parties.

6.3. Claims for defective Products shall be made in writing within eight working days from discovery.

6.4. The defective Products shall be returned to the Seller at the Buyer's cost upon Seller's request. The Seller's sole obligation (and Buyer's sole remedy) for any breach of warranty under the foregoing warranty shall be to repair (at location designated by Seller) or replace DAP the original point of delivery the defective goods, within a reasonable time. The Buyer will waive any claim for damage compensation once the warranty has been fulfilled and the Product has been repaired or replaced. The warranty shall not cover defects due to environmental or stress testing, misuse, failure to observe the Seller's instructions regarding the functioning, maintenance and the storage of the Products, repairs or modifications made by the Buyer or a third party without prior written authorization of the Seller, improper installation, transportation or handling.

6.5. Direct interventions on site are not included in the warranty; if expressly requested by the Buyer they are subject to charge, according to the Seller's tariffs.

6.6. Warranty repair/replacements may be suspended in the event of insolvency of the Buyer or overdue invoices.

6.7. Save for the case of fraud or gross negligence, the Seller shall bear no liability for damages to property or third parties other than that expressly provided by virtue of any mandatory law provisions. In any case, the Seller shall not be liable for indirect or consequential damages of whatsoever nature as, by way of example, production losses or unearned profits. In any case, Buyer's right to damages shall be limited to a maximum amount equal to the value of the Products showing defects or faults.

6.8. The Seller shall bear no liability for damages to property or third parties other than that expressly provided by virtue of any mandatory law provisions. The Supplier will not, under any circumstances, be liable for the cost of removal or reinstallation of goods or the cost of disassembly or reassembly or for loss of business or goodwill or profits or for cost of inspection or storage or for any incidental and consequential damages of any nature which may arise from the sale of goods to the Buyer. When liability cannot be excluded by virtue of mandatory law provisions, Buyer's right to damages shall in any case be limited to a maximum amount equal to the value of the Products showing defects or faults.

6.9. The Seller has taken out suitable insurance policies covering general liability in connection with the Products.

7. EXPORT CONTROL REGULATIONS

7.1. CEMBRE shall not be obligated to fulfil this agreement if such fulfilment is prevented by any impediments arising out of national or international foreign trade or customs requirements or any embargoes or other sanctions or restrictions.

7.2. If the Buyer transfers the goods to a third party, the Buyer shall comply with all applicable national and international (re-) export control regulations.

7.3. The Buyer shall cooperate with the Seller to provide the information concerning end users, destination and intended use of goods supplied by CEMBRE, in case this is necessary due to customs control activities or export control regulations.

7.4. Violations of this section 7 shall entitle the Seller to terminate any existing sale agreement at any time without notice.

8. INTELLECTUAL PROPERTY, CONFIDENTIALITY AND PRIVACY

8.1. The use of CEMBRE trademarks is governed by the General Terms and Conditions, published on the website https://www.cembre.com/group/termsandconditions, which the Buyer is obliged to comply with. It is prohibited to relabel and repackage the Products without CEMBRE's written authorization.

8.2. Each party will retain ownership of its Intellectual Property developed before or outside the scope of the sale agreement. If any Intellectual Property is developed under the sale agreement, the parties shall execute a separate agreement regarding the ownership thereof.

8.3. Supplier expressly reserves the copyright to its catalogues, technical documentation (e.g. drawings, plans, calculations, data sheets), other product descriptions or documents - also in electronic form. The Buyer is only granted a non-exclusive right of use.

8.4. All drawings and technical documents relating to the Products submitted by one party to the other shall remain exclusive property of the submitting party and can only be used for the purpose for which they were provided. The receiving party is not allowed to use such documents otherwise, to procure copies thereof, to reproduce and to disclose them to a third party without consent of the submitting party. The end user of the Products shall not be deemed as a third party for the purpose of this section.

8.5. Any liability of the Supplier is excluded if the Buyer is responsible for the infringement of property rights, in particular because he has modified the object of performance, used it in breach of contract or taken it to a place other than the place of destination without the Supplier's consent.

8.6. If the Supplier manufactures goods according to drawings, samples or other information provided by the Buyer (OEM products) and if the property rights of third parties are infringed in the process, the Buyer shall indemnify the Supplier from all claims for damages resulting from this.

8.7. The Seller warrants that the personal data received from the Buyer will be processed in full compliance with the applicable data protection regulations.

8.8. Violations of this section 8 shall entitle the Seller to terminate any existing sale agreement at any time without notice.

9. APPLICABLE LAW AND JURISDICTION

9.1. The place of performance for the delivery together with any subsequent performance on the part of the Supplier is the Supplier's registered office.

9.2. Place of jurisdiction is the registered office of the Supplier. The Supplier is also entitled to take legal action at the Buyer's registered office.

9.3. The legal relations between the Supplier and the Buyer shall be governed by the Uniform Commercial Code as enacted and construed in accordance with the laws of the State of New Jersey.

9.4. The Buyer acknowledges that the CEMBRE Group has adopted a Code of Ethics and undertakes to respect its provisions, abstaining from any unlawful conducts. Failure to comply with any of the provisions of the Code of Ethics will result in a serious breach of contractual obligations and will entitle CEMBRE to terminate the contract with immediate effect, without prejudice to compensation for damages.

10. FORCE MAJEURE AND HARDSHIP

10.1. No failure, omission or delay of the Supplier in the performance of any obligation shall be deemed a breach of the agreement nor create any liability hereunder, if the failure, omission or delay shall arise from acts of God, laws, rules, regulations or orders of any governmental authority, floods, fires, explosions, storms, earthquakes, acts of war (declared or undeclared), rebellion, insurrections, riot, sabotage, shortages of fuel, power, energy resources, and/or raw material, invasion, epidemic, quarantine, accident, strikes, lockouts, labor disputes, or any other comparable cause beyond the reasonable control of the Supplier.

10.2. If, during the term of the contract, events occur which have not been contemplated by the Parties and which fundamentally alter the equilibrium of the contract, thereby placing an excessive burden on the Supplier in the performance of its contractual obligations (hardship), the Supplier shall have the power to make any revision to the contract that it finds just and equitable in the circumstances, or to terminate the contract at a date and on terms to be fixed.

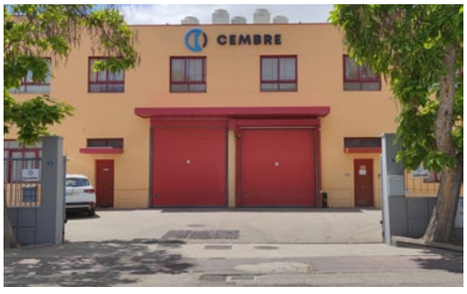
THE CEMBRE GROUP

Cembre SpA - Italy

Cembre Ltd - UK

Cembre Sarl - France

Cembre España SLU - Spain



Cembre GmbH - Germany

Cembre Inc - USA

Making the right connections

Copyright © 2022 All rights reserved.
All contents of this catalogue belong to CEMBRE S.p.A.
Any reproduction, even in part, is prohibited without prior written permission from CEMBRE.
All images are included for illustration purposes; CEMBRE reserves the right to make changes and improvements to the products without notice.
Procedures for the use of the products shown should not be inferred from this document,
but from the specific use and maintenance manuals provided with the products.
Edited by CEMBRE SpA - IGB Group Press (BS), December 2022

Cod. 6260459

22V192U

8 016692 694535

CEMBRE

LRQA CERTIFIED
ISO 9001 • ISO 14001
ISO 45001

CONTACT US

FOLLOW US

CEMBRE S.p.A.
via Serenissima, 9
25135 Brescia
Italy
Ph +39 030 36921
ufficio.vendite@cembre.com
sales@cembre.com

CEMBRE Ltd.
Dunton Park,
Kingsbury Road,
Curdworth, Sutton Coldfield,
West Midlands, B76 9EB
United Kingdom
Ph +44 01675 470440
sales@cembre.co.uk

CEMBRE S.a.r.l.
22 Avenue Ferdinand
de Lesseps
91420 Morangis Cedex
France
Ph +33 01 60 49 11 90
info@cembre.fr

CEMBRE España S.L.U.
Calle Verano 6 y 8
Pl Las Monjas
28850 Torrejón de Ardoz
Madrid - Spain
Ph +34 91 4852580
comercial@cembre.com

CEMBRE GmbH
Geschäftsbereich
Energie- und Bahntechnik
Heidemannstr. 166
80939 München
Germany
Ph + 49 89-3580676
info@cembre.de

CEMBRE GmbH
Geschäftsbereich
Industrie und Handel
Boschstraße 7
71384 Weinstadt
Germany
Ph +49 7151-20536-60
info-w@cembre.de

CEMBRE Inc.
Raritan Center Business Park
300 Columbus Circle-S.F,
Edison, NJ 08837 USA
Ph +1 (732) 225-7415
sales.us@cembre.com
Midwest Office
1051 Perimeter Dr #610
Schaumburg, IL 60173