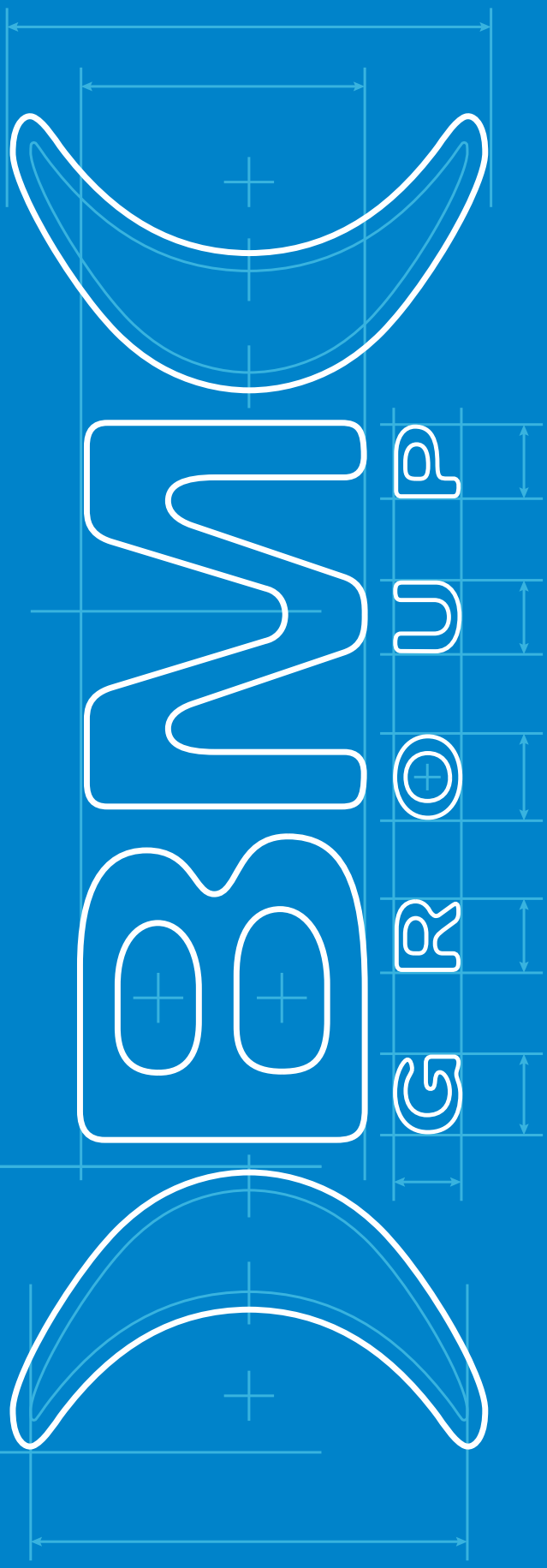


GENERAL CATALOGUE

Ed. 61

GENERAL CATALOGUE

Ed. 61

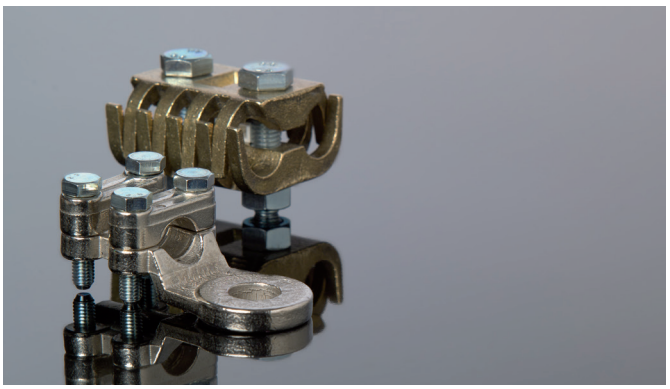
SINCE 1958 THE BM GROUP MISSION HAS BEEN THE DESIGN, THE MANUFACTURE AND THE DISTRIBUTION OF ELECTRICAL CONNECTION ELEMENTS AND PRODUCTS FOR ELECTRICAL INSTALLATIONS.

With innovation in our DNA, we strive to devise cutting-edge solutions that foresee market needs and redefine industry standards.

Over the years, thanks to its unfailing dedication, BM's offer has grown without losing sight of our core business: designing, manufacturing and marketing of terminal blocks and terminals. Through this evolution, we have become industry leaders with one of the most complete ranges of connection elements and products for electrical installation.

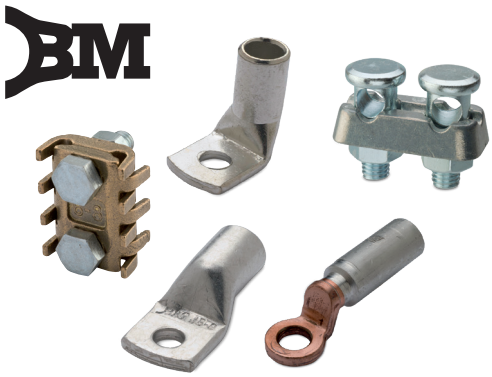
QUALITY.
SAFETY.
RELIABILITY.

Quality, safety, reliability and the search for excellence have always been BM's values and led the company to become, step by step, the leading force in the market of electrical equipment.
Essential values in every step of the process.



UNTIL **1958**
A SUCCESS STORY

1958
BM is founded in Rozzano, Milan.
It produced screw connections and had an internal foundry, which is still working.



1970
The production of the first bare and pre-insulated connection elements begins and crimping tools are added to the catalogue.

1979
BM achieves the first UL certification.

1980
Production of terminal blocks begins.

1985
BM achieves the first ENEC certification.

1990
Cable ties, cable glands and heat-shrink sheaths are added to the catalogue.

1991
BM obtains the ISO 9001 certification.

1993
BM obtains the first CSA and IMQ certifications.

2000
Tools and fixing product lines are added to the catalogue.

2010
SAP implementation.

2013
X-Pro EVO scissors are awarded the prestigious international RedDot Design Award.

reddot design award
honourable mention 2013

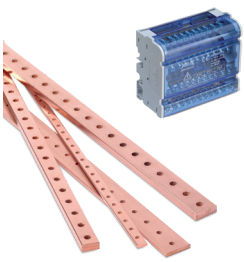
2014
Opening of the branch in Slovenia.

2017
BM adds fittings and insulating tapes to its offer.

2018
BM becomes part of Gruppo Beta.

2020
Opening of the branch in Romania.

2021
Panel boards components line has been expanded.



BM IN THE WORLD

We are proudly glocal. Our roots are firmly set in the Milanese reality, but we resolutely reach out to the whole world. Today, we are in 52 countries through partners and subsidiaries. This highlights how our ongoing commitment to creating innovative and high-quality products has made us the reliable partner of thousands of professionals all over the world.

Headquarter

Branches

Salesforce

Distributors

TRADITION AND INNOVATION

BM products combine tradition and innovation. On the one hand the tradition and the experience that comes from having been in business for sixty years, on the other the ongoing search for increasingly efficient solutions. The dialogue with end users, who tell us of their needs, is what drives our research and development.

A totally automated, vertical production system enables us to make high quality products in a short time, to the benefit of end users. We have achieved these results thanks to constant and increasing investments in technology, automation, computerization of planning and production control, showing once again the drive of the entire company towards the innovation of industrial processes. Highly specialized personnel ensures efficiency in every phase, from planning to production and control. As a result, we can count on a warehouse of finished products always ready to be delivered.

CERTIFIED QUALITY

CERTIFICATION AND MARKINGS

BM's production units are headquartered in Rozzano, south of Milan, and include a highly automated production, packaging and distribution system for delivering products all over the world.

The continuous innovation of industrial processes has enabled us to manufacture high-quality products by means of integrated production cycles. That, in turn, has helped us to align with market expectations: our hard work has been acknowledged by Company Quality Certification in compliance with ISO 9001:2000, issued by the CSQ in May 1991, based on strict international standards.

Many others have followed reflecting the constant commitment of the company to guarantee an ever-better quality.

VOLUNTARY SYSTEM CERTIFICATION

The logo means that the company is certified in accordance with ISO 9001 from IMQ. The ISO 9001 standard defines the requirements of a quality management system for an organization.

MANDATORY SAFETY MARKING

The logo means that the product complies with the safety requirements of the applicable Community directives or regulations. The CE marking is mandatory for all products for which a Community directive exists and therefore it is only applicable to certain types of products.

The Colombian government requires products used in electrical installations to be certified by a accredited body in according to RETIE (Technical Regulation for Electrical installations). The logo means that the product complies with RETIE.

VOLUNTARY SAFETY CERTIFICATION

The ENEC logo, acronym for European Norms Electrical Certification, is a voluntary quality label that certifies compliance with a set of harmonized electrical safety standards (EN). Near the logo there is a number that represents the certification body that issued it. For example, 03 is the one of the Italian Institute of Quality Mark.

The logo means that the product obtained the voluntary safety certification from the private American organization UL (Underwriters Laboratories Inc.). If there are no letters near the logo, it means that certification is valid only in US market. If there is only “C”, it means that certification is valid only in Canada market. If there are “C” and “US”, it means that certification is valid both in the Canadian and US markets.

The logo means that the component obtained the voluntary safety certification from the private American organization UL (Underwriters Laboratories Inc.). It is UL that determines whether a finished item is classifiable as a finished product or as a component. If there are no letters near the logo, it means that certification is valid only in US market. If there is only “C”, it means that certification is valid only in Canada market. If there are “C” and “US”, it means that certification is valid both in the Canadian and US markets.

The logo means that the product obtained voluntary safety certification from the Canadian Private Organization Canadian CSA (Canadian Standards Association).

The logo means that the product obtained the voluntary safety certification from the Italian IMQ body.

The logo means that the product obtained the certificate with surveillance for products not included in categories covered by IMQ mark schemes.

The logo means that the product obtained the voluntary safety certification by the German VDE (Verband der Elektrotechnik).

GENERAL INDEX

TERMINALS	
Insulated terminal lugs from sheet	18
Insulated connectors	26
Insulated quick-connect terminals	29
Uninsulated quick-connect terminals	35
Uninsulated terminals from sheet	40
End-sleeves terminals	43
Uninsulated tube terminals	48
Junction connectors	59
DIN standard terminals	60
Medium Voltage terminals	65
Aluminum terminals	68
Bimetallic terminals	71
C shunt and terminals for ground connection	72
Insulated tube terminals	75
Fork and pin terminals	82
Assortments	84

SCREW CONNECTIONS	
Brass clamping lugs & earth lugs	102
Brass nickel plates terminal lugs	104

TERMINAL BLOCKS	
One-way terminal blocks	
For free connections	108
One-way	110
Indirect clamping terminal	113
Connectors	
Polarized plug terminals	114
Crimping connectors	118
RJ plugs	120
Multiway terminal blocks	
Polypropylene	124
Nylon	125
Nylon with fiberglass	142
Steatite	153

CABLE-GLANDS

Nylon	
Metric thread	160
PG thread	166
Gas thread	175
Brass	
Metric thread	176
PG thread	179
Gas thread	182
Accessories	183

CABLE-TIES

Nylon	186
Velcro	197
Steel	198

CABLE PROTECTION

Thin wall 2:1	202
Thin wall 3:1	206
Accessories	207

PANEL BOARDS COMPONENTS

Modular distribution blocks	210
Braids	215
Threaded bars	217
Insulators and Spacers	218
Sheaths for cable protection	221
Cutting and drilling DIN bars	222

EQUIPMENT	
Crimping tools	
Mechanical	226
Hydraulic	253
Battery powered	257
Dies	261
Cable cutters and wire rope cutters	
Mechanical	267
Hydraulic	269
Battery powered	271
Drillers	
Mechanical	274
Hydraulic	275
Punchers	276
Pumps and headstocks	280

ELECTRICAL TAPES	
PVC Electrical tapes	290
Self-amalgamating	293

CONDUIT FIXINGS	
IP67 accesories	296
IP40 accesories	299
Conduit fixing	300
Accessories for spiral conduits	301

FIXINGS	
Light fixings	307
Manual nailing	310

TOOLS

Scissors and Cutting tools	315
Screwdrivers	319
Voltage tester	325
High insulation pliers	326
Drilling tools	329
Wrenches	331
Hammers and Suction lifter	334
Measuring tools	335
Tool cases	336

APPENDICES

Crimping Tool Guide	341
Definitions	350
Standards	351
RETIE certified codes	352
Approximate correspondence between sections of the American and European standard	353
Conductor resistence values	354
Degrees of protection provided by casings (IP Code)	355
Analytical index	356

EXPORT

Export sales Network	364

AGENCIES

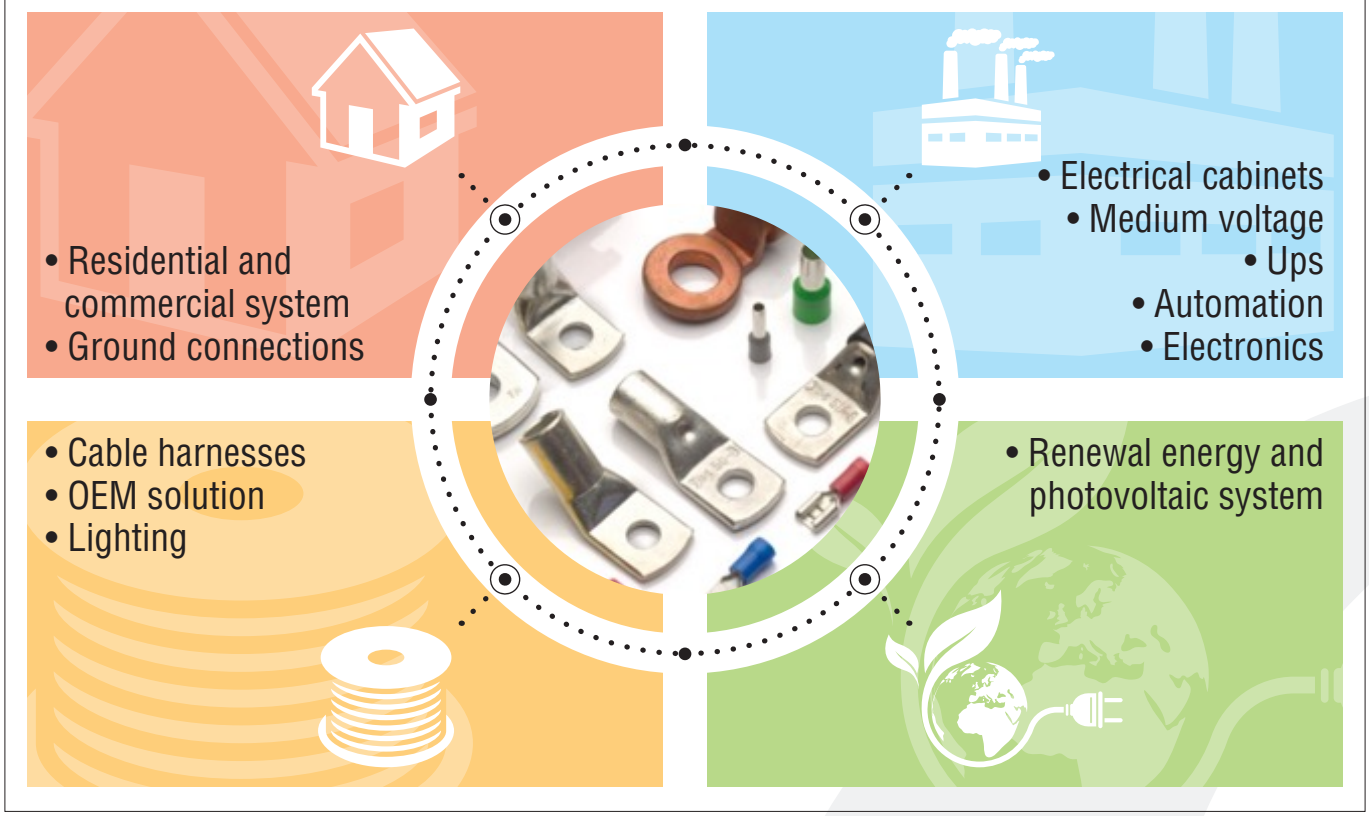
Agencies in Italy	365

TERMINALS

INSULATED TERMINAL LUGS FROM SHEET	pag. 18
INSULATED CONNECTORS	pag. 26
INSULATED QUICK-CONNECT TERMINALS	pag. 29
UNINSULATED QUICK-CONNECT TERMINALS	pag. 35
UNINSULATED TERMINALS FROM SHEET	pag. 40
END-SLEEVES TERMINALS	pag. 43
UNINSULATED TUBE TERMINALS	pag. 48
JUNCTION CONNECTORS	pag. 59
DIN STANDARD TERMINALS	pag. 60
MEDIUM VOLTAGE TERMINALS	pag. 65
ALUMINUM TERMINALS	pag. 68
BIMETALLIC TERMINALS	pag. 71
C SHUNT AND TERMINALS FOR GROUND CONNECTION	pag. 72
INSULATED TUBE TERMINALS	pag. 75
FORK AND PIN TERMINALS	pag. 82
ASSORTMENTS	pag. 84

TERMINALS

APPLICATIONS



WIDE RANGE OF TERMINALS

For cable sections from 0.25 to 630 mm^2

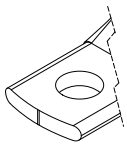
For European and American cables

Many conductive materials (copper, aluminum, bimetallic, brass)

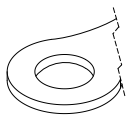
Many types of barrels, palms and quick connectors

Complete crimping system (terminal + crimping tool) for state-of-the-art installations

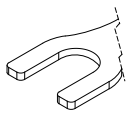
TERMINAL LUG PLAMS



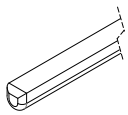
WITH THROUGH HOLE



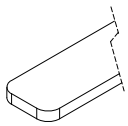
RING



FORK

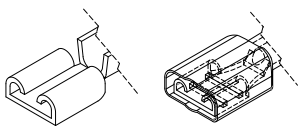


BLADE PIN

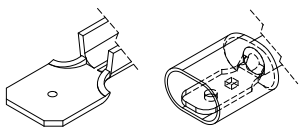


ROUND PIN

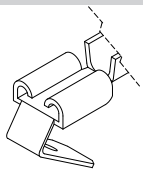
QUICK CONNECTORS



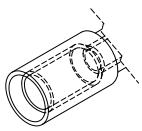
UNINSULATED AND INSULATED FLAT FEMALE



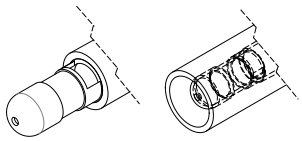
UNINSULATED AND INSULATED FLAT MALE



FLAT MALE AND FEMALE

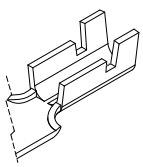


SOCKET

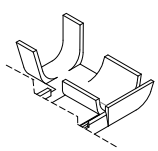


UNINSULATED AND INSULATED PLUG

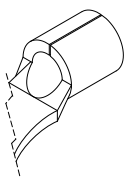
UNINSULATED BARRELS



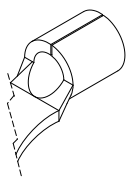
OPEN BARREL



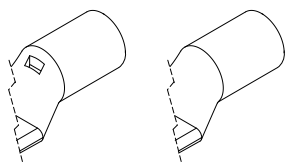
OPEN BARREL BENT AT 90°



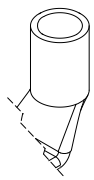
BARREL CLOSED BY SHEET



BARREL CLOSED BY SHEET WITH BRAZED FLAPS

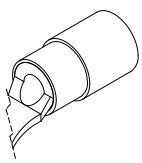


BARREL CLOSED BY TUBE WITH OR WITHOUT INSPECTION HOLE

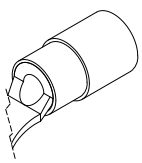


BARREL CLOSED BY TUBE BENT AT 90° OR 45°

INSULATED BARRELS

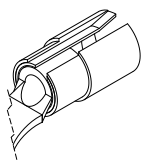


INSULATED BARREL

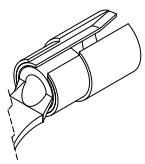


INSULATED BARREL

EASYENTRY

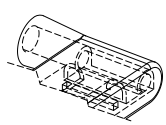


INSULATED BARREL WITH END-SLEEVE



INSULATED BARREL WITH END-SLEEVE

EASYENTRY

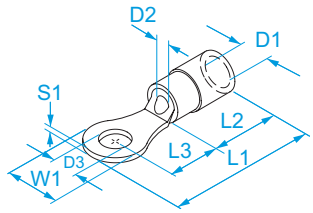


INSULATED BARREL BENT AT 90°

EASYENTRY

EasyEntry terminals make easier cable insertion by directing the conductors into the metal part of the barrel preventing the strands from bending. This is also in the terminals with anti-vibrating end-sleeve designed to improve mechanical resistance to vibrations.

TERMINAL LUGS FOR COPPER CONDUCTORS · PVC INSULATED FROM SHEET · RING



TERMINAL MATERIAL: tinned copper
INSULATION MATERIAL: polyvinylchloride (PVC)
INSULATION SELF-EXTINGUISHING GRADE: UL 94 V0
RATED VOLTAGE: 300 V max
OPERATING TEMPERATURE: 75 °C max
ACCORDING TO STD.: UL 486 A-B

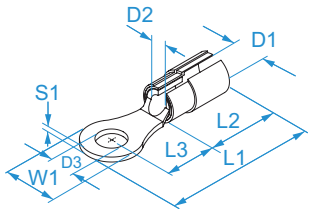
Code	Color	Section (mm²)	Section (AWG)	For screw Ø screw (mm)	For screw Stud size	W1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	D1 (mm)	D2 (mm)	D3 (mm)	S1 (mm)	
00101	Red	0.25 ÷ 1.5	(22 - 16)	2.5	#3	8	23	10,4	8,6	4,2	1,95	2,6	0,8	100/1000
00107	Red			3	#4	8	23	10,4	8,6	4,2	1,95	3,15	0,8	100/1000
00109	Red			3	#4	5,5	17,6	10,4	4,4	4,2	1,95	3,2	0,8	100/1000
00113	Red			3.5	#6	8	22,2	10,4	7,8	4,2	1,95	3,6	0,8	100/1000
00119	Red			4	#8	7,4	20,6	10,4	6,5	4,2	1,95	4,3	0,8	100/1000
00125	Red			5	#10	8	21,8	10,4	7,4	4,2	1,95	5,2	0,8	100/1000
00131	Red			6	#12	10	23,7	10,4	8,3	4,2	1,95	6,2	0,8	100/1000
00137	Red			8	5/16"	14	30	10,4	12,6	4,2	1,95	8,3	0,8	100/1000
00143	Red			10	3/8"	14	30,2	10,4	12,8	4,2	1,95	10,4	0,8	100/1000
00201	Blue	1.5 ÷ 2.5	(16 - 14)	2.5	#3	8	23	11	8	4,8	2,45	2,6	0,8	100/1000
00207	Blue			3	#4	8	23,4	11	8,4	4,8	2,45	3,2	0,8	100/1000
00209	Blue			3	#4	6,4	18,5	11	4,3	4,8	2,45	3,2	0,8	100/1000
00213•	Blue			3.5	#6	8	23	11	8	4,8	2,45	3,7	0,8	100/1000
00219	Blue			4	#8	8	21,5	11	6,5	4,8	2,45	4,3	0,8	100/1000
00225	Blue			5	#10	9	22,4	11	7,5	4,8	2,45	5,2	0,8	100/1000
00231	Blue			6	#12	10,5	26	11	9,8	4,8	2,45	6,2	0,8	100/1000
00237	Blue			8	5/16"	13	29,8	11	12,3	4,8	2,45	8,2	0,8	100/1000
00243	Blue			10	3/8"	15	33	11	14,5	4,8	2,45	10,5	0,8	50/500
00313	Yellow	4 ÷ 6	(12 - 10)	3.5	#6	8	26,4	14	8,4	6,6	3,5	3,7	1	50/500
00319	Yellow			4	#8	8	26,4	14	8,4	6,6	3,5	4,2	1	50/500
00325	Yellow			5	#10	9,6	27	14	8,2	6,6	3,5	5,2	1	50/500
00331	Yellow			6	#12	11	29,1	14	9,6	6,6	3,5	6,2	1	50/500
00337	Yellow			8	5/16"	14	34,5	14	13,5	6,6	3,5	8,2	1	50/500
00343	Yellow			10	3/8"	19	40	14	16,5	6,6	3,5	10,5	1	100/500

CSV E-B170 (0,5-1,5 mm²)
E-B171 (1,5-2,5 mm²)
E-B172 (4-6 mm²)

c UL us LISTED file n° E 137735 • No UL

V0 EASYENTRY

TERMINAL LUGS FOR COPPER CONDUCTORS · PVC INSULATED AND ANTI-VIBRATING FROM SHEET · RING



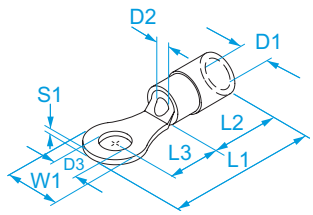
TERMINAL MATERIAL: tinned copper
END-SLEEVE MATERIAL: copper
INSULATION MATERIAL: polyvinylchloride (PVC)
INSULATION SELF-EXTINGUISHING GRADE: UL 94 V0
RATED VOLTAGE: 600 V max
OPERATING TEMPERATURE: 75 °C max
ACCORDING TO STD.: UL 486 A-B
ASSEMBLING: double crimping

Code	Color	Section (mm²)	Section (AWG)	For screw Ø screw (mm)	For screw Stud size	W1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	D1 (mm)	D2 (mm)	D3 (mm)	S1 (mm)	
90107	Red	0.25 ÷ 1.5	(22 - 16)	3	#4	5,5	17,5	10	4,75	4,4	1,7	3,2	0,8	100/1000
90113	Red			3.5	#6	5,5	17,5	10	4,75	4,4	1,7	3,7	0,8	100/1000
90119	Red			4	#8	8	21	10	7	4,4	1,7	4,3	0,8	100/1000
90125	Red			5	#10	8	21	10	7	4,4	1,7	5,3	0,8	100/1000
90131	Red			6	#12	11,6	25,5	10	9,7	4,4	1,7	6,4	0,8	100/1000
90137	Red			8	5/16"	11,6	25,5	10	9,7	4,4	1,7	8,4	0,8	100/1000
90143	Red			10	3/8"	13,6	27,3	10	10,5	4,4	1,7	10,5	0,8	100/1000
90207	Blue	1.5 ÷ 2.5	(16 - 14)	3	#4	8,5	22	10	7,75	5	2,3	3,2	0,8	100/1000
90213	Blue			3.5	#6	8,5	22	10	7,75	5	2,3	3,7	0,8	100/1000
90219	Blue			4	#8	8,5	22	10	7,75	5	2,3	4,3	0,8	100/1000
90225	Blue			5	#10	9,5	22	10	7,25	5	2,3	5,3	0,8	100/1000
90231	Blue			6	#12	12	27	10	11	5	2,3	6,4	0,8	100/1000
90237	Blue			8	5/16"	12	27	10	11	5	2,3	8,4	0,8	100/1000
90243	Blue			10	3/8"	13,6	29,3	10	12,5	5	2,3	10,5	0,8	100/1000
90319	Yellow	4 ÷ 6	(12 - 10)	4	#8	9,5	27	14	8,25	6,7	3,6	4,3	1	50/500
90325	Yellow			5	#10	9,5	27	14	8,25	6,7	3,6	5,3	1	50/500
90331	Yellow			6	#12	12	30,5	14	10,5	6,7	3,6	6,4	1	50/500
90337	Yellow			8	5/16"	15	35	14	13,5	6,7	3,6	8,4	1	50/500
90343	Yellow			10	3/8"	15	35	14	13,5	6,7	3,6	10,5	1	50/500

c UL us LISTED file n° E 137735

V0 EASYENTRY

TERMINAL LUGS FOR COPPER CONDUCTORS · NYLON INSULATED FROM SHEET · RING

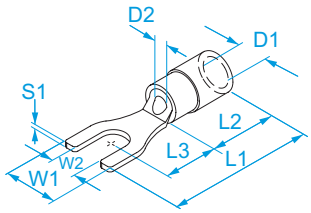


TERMINAL MATERIAL: tinned copper
INSULATION MATERIAL: polyamide (PA 6.6)
INSULATION SELF-EXTINGUISHING GRADE: UL 94 V2
RATED VOLTAGE: 300 V max
OPERATING TEMPERATURE: 105 °C max

Code	Color	Section (mm²)	Section (AWG)	For screw Ø screw (mm)	For screw Stud size	W1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	D1 (mm)	D2 (mm)	D3 (mm)	S1 (mm)	
80107	Red	0.25 ÷ 1.5	(22 - 16)	3	#4	8	22,2	10,4	8,6	4,2	1,95	3,2	0,8	100/1000
80113	Red			3.5	#6	8	22,2	10,4	7,8	4,2	1,95	3,7	0,8	100/1000
80119	Red			4	#8	7,4	20,8	10,4	6,5	4,2	1,95	4,3	0,8	100/1000
80125	Red			5	#10	8	22,4	10,4	8	4,2	1,95	5,2	0,8	100/1000
80131	Red			6	#12	10	23,7	10,4	8,6	4,2	1,95	6,2	0,8	100/1000
80137	Red			8	5/16"	14	30	10,4	12,6	4,2	1,95	8,3	0,8	100/1000
80143	Red			10	3/8"	14	30	10,4	12,8	4,2	1,95	10,4	0,8	100/1000
80207	Blue	1.5 ÷ 2.5	(16 - 14)	3	#4	8	23	11	8	4,8	2,45	3,2	0,8	100/1000
80213	Blue			3.5	#6	8	23	11	8	4,8	2,45	3,7	0,8	100/1000
80219	Blue			4	#8	8	21,5	11	6,5	4,8	2,45	4,3	0,8	100/1000
80225	Blue			5	#10	9	23,6	11	7,5	4,8	2,45	5,2	0,8	100/1000
80231	Blue			6	#12	10,5	26	11	9,8	4,8	2,45	6,2	0,8	100/1000
80237	Blue			8	5/16"	13	30	11	12,7	4,8	2,45	8,2	0,8	100/1000
80243	Blue			10	3/8"	15	33	11	14,5	4,8	2,45	10,5	0,8	100/1000
80319	Yellow	4 ÷ 6	(12 - 10)	4	#8	8	26,5	14	8,4	6,6	3,5	4,2	1	100/1000
80325	Yellow			5	#10	10	27,5	14	8,5	6,6	3,5	5,2	1	100/1000
80331	Yellow			6	#12	11	30,6	14	11	6,6	3,5	6,2	1	100/1000
80337	Yellow			8	5/16"	15	37	14	15,3	6,6	3,5	8,2	1	100/1000
80343	Yellow			10	3/8"	19	40	14	16,5	6,6	3,5	10,5	1	100/1000

HALOGEN FREE 105 °C EASYENTRY

TERMINAL LUGS FOR COPPER CONDUCTORS · PVC INSULATED FROM SHEET · FORK



TERMINAL MATERIAL: tinned copper
INSULATION MATERIAL: polyvinylchloride (PVC)
INSULATION SELF-EXTINGUISHING GRADE: UL 94 V0
RATED VOLTAGE: 300 V max
OPERATING TEMPERATURE: 75 °C max
ACCORDING TO STD.: UL 486 A-B

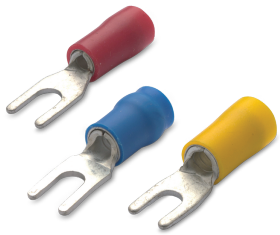
Code	Color	Section (mm²)	Section (AWG)	For screw Ø screw (mm)	For screw Stud size	W1 (mm)	W2 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	D1 (mm)	D2 (mm)	S1 (mm)	
00102	Red	0.25 ÷ 1.5	(22 - 16)	2.5	#3	5,6	2,6	20	10,4	6,7	4,2	1,95	0,8	100/1000
00108	Red			3	#4	5,6	3,2	20	10,4	6,7	4,2	1,95	0,8	100/1000
00114	Red			3.5	#6	6,5	3,7	19,4	10,4	6,5	4,2	1,95	0,8	100/1000
00120	Red			4	#8	6,4	4,2	20,9	10,4	6,3	4,2	1,95	0,8	100/1000
00126	Red			5	#10	8	5,2	21,2	10,4	8	4,2	1,95	0,8	100/1000
00132	Red			6	#12	9,2	6,2	22,4	10,4	8,3	4,2	1,95	0,8	100/1000
00202	Blue	1.5 ÷ 2.5	(16 - 14)	2.5	#3	5,6	2,6	23	11	8,4	4,8	2,45	0,8	100/1000
00208	Blue			3	#4	5,6	3,2	23	11	8,4	4,8	2,45	0,8	100/1000
00214•	Blue			3.5	#6	6,6	3,7	20,3	11	5,3	4,8	2,45	0,8	100/1000
00220	Blue			4	#8	6,6	4,2	20,3	11	5,3	4,8	2,45	0,8	100/1000
00226	Blue			5	#10	9,1	5,2	25	11	9,5	4,8	2,45	0,8	100/1000
00232	Blue			6	#12	10	6,3	27	11	11,2	4,8	2,45	0,8	100/1000
00314	Yellow	4 ÷ 6	(12 - 10)	3.5	#6	8,1	3,7	26	14	7,2	6,6	3,5	1	50/500
00320	Yellow			4	#8	8,1	4,2	26	14	7,2	6,6	3,5	1	50/500
00326	Yellow			5	#10	9	5,2	28,5	14	10,5	6,6	3,5	1	50/500
00332	Yellow			6	#12	11	6,3	29,5	14	11	6,6	3,5	1	50/500
00338	Yellow			8	5/16"	15,2	8,2	35,2	14	15	6,6	3,5	1	50/500
00344	Yellow			10	3/8"	19	10,5	38	14	16,6	6,6	3,5	1	100/500

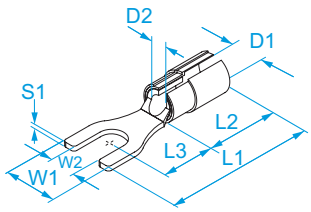
CSV
E-B170 (0,5-1,5 mm²)
E-B171 (1,5-2,5 mm²)
E-B172 (4-6 mm²)

c UL us LISTED file n° E 137735 • No UL

V0 EASYENTRY

TERMINAL LUGS FOR COPPER CONDUCTORS · PVC INSULATED AND ANTI-VIBRATING FROM SHEET · FORK





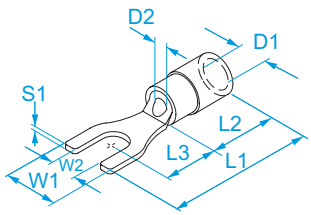
TERMINAL MATERIAL: tinned copper
END-SLEEVE MATERIAL: copper
INSULATION MATERIAL: polyvinylchloride (PVC)
INSULATION SELF-EXTINGUISHING GRADE: UL 94 V0
RATED VOLTAGE: 600 V max
OPERATING TEMPERATURE: 75 °C max
ACCORDING TO STD.: UL 486 A-B
ASSEMBLING: double crimping

Code	Color	Section (mm²)	Section (AWG)	For screw Ø screw (mm)	For screw Stud size	W1 (mm)	W2 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	D1 (mm)	D2 (mm)	S1 (mm)	
90108	Red	0.25 ÷ 1.5	(22 - 16)	3	#4	5,7	3,2	21,2	10	6,5	4,4	1,7	0,8	100/1000
90114	Red			3.5	#6	6,4	3,7	21,2	10	6,5	4,4	1,7	0,8	100/1000
90120	Red			4	#8	6,4	4,3	21,2	10	6,5	4,4	1,7	0,8	100/1000
90126	Red			5	#10	8,1	5,3	21,2	10	6,5	4,4	1,7	0,8	100/1000
90132	Red			6	#12	11	6,4	25,5	10	8,6	4,4	1,7	0,8	100/1000
90208	Blue	1.5 ÷ 2.5	(16 - 14)	3	#4	5,7	3,2	21,2	10	6,5	5	2,3	0,8	100/1000
90220	Blue			4	#8	6,4	4,3	21,2	10	6,5	5	2,3	0,8	100/1000
90226	Blue			5	#10	8,1	5,3	21,2	10	6,5	5	2,3	0,8	100/1000
90232	Blue			6	#12	11	6,4	25,5	10	8,6	5	2,3	0,8	100/1000
90314	Yellow	4 ÷ 6	(12 - 10)	3.5	#6	7,2	3,7	25,7	14	7,2	6,7	3,6	1	50/500
90320	Yellow			4	#8	9	4,3	25,7	14	7,2	6,7	3,6	1	50/500
90326	Yellow			5	#10	9	5,3	25,7	14	7,2	6,7	3,6	1	50/500
90332	Yellow			6	#12	12	6,4	31,5	14	10,5	6,7	3,6	1	50/500

c UL us LISTED file n° E 137735

V0 EASYENTRY

TERMINAL LUGS FOR COPPER CONDUCTORS · NYLON INSULATED FROM SHEET · FORK

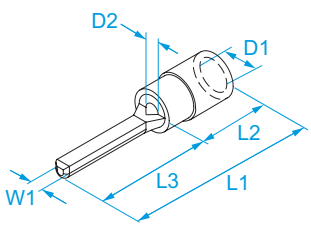


TERMINAL MATERIAL: tinned copper
INSULATION MATERIAL: polyamide (PA 6.6)
INSULATION SELF-EXTINGUISHING GRADE: UL 94 V2
RATED VOLTAGE: 300 V max
OPERATING TEMPERATURE: 105 °C max

Code	Color	Section (mm²)	Section (AWG)	For screw Ø screw (mm)	For screw Stud size	W1 (mm)	W2 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	D1 (mm)	D2 (mm)	S1 (mm)	
80108	Red	0.25 ÷ 1.5	(22 - 16)	3	#4	5,6	3,2	20	10,4	6,7	4,2	1,95	0,8	100/1000
80114	Red			3.5	#6	6,5	3,7	19,4	10,4	6,5	4,2	1,95	0,8	100/1000
80120	Red			4	#8	6,4	4,2	20,9	10,4	6,3	4,2	1,95	0,8	100/1000
80126	Red			5	#10	8	5,2	21,2	10,4	8	4,2	1,95	0,8	100/1000
80132	Red			6	#12	9,2	6,2	22,4	10,4	8,3	4,2	1,95	0,8	100/1000
80208	Blue	1.5 ÷ 2.5	(16 - 14)	3	#4	5,6	3,2	23	11	8,4	4,8	2,45	0,8	100/1000
80214	Blue			3.5	#6	6,6	3,7	20,3	11	5,3	4,8	2,45	0,8	100/1000
80220	Blue			4	#8	6,6	4,2	20,3	11	5,3	4,8	2,45	0,8	100/1000
80226	Blue			5	#10	9,1	5,2	25	11	9,5	4,8	2,45	0,8	100/1000
80232	Blue			6	#12	10	6,3	27	11	11,2	4,8	2,45	0,8	100/1000
80314	Yellow	4 ÷ 6	(12 - 10)	3.5	#6	8,1	3,7	26	14	7,2	6,6	3,5	1	100/1000
80320	Yellow			4	#8	8,1	4,2	26	14	7,2	6,6	3,5	1	100/1000
80326	Yellow			5	#10	9	5,2	28,5	14	10,5	6,6	3,5	1	100/1000
80332	Yellow			6	#12	11	6,3	29,5	14	11	6,6	3,5	1	100/1000
80338	Yellow			8	5/16"	15,2	8,2	35,2	14	15	6,6	3,5	1	100/100
80344	Yellow			10	3/8"	19	10,5	38	14	16,6	6,6	3,5	1	100/1000

HALOGEN FREE · 105 °C · EASYENTRY

TERMINAL LUGS FOR COPPER CONDUCTORS · PVC INSULATED FROM SHEET · ROUND PIN



TERMINAL MATERIAL: tinned copper
INSULATION MATERIAL: polyvinylchloride (PVC)
INSULATION SELF-EXTINGUISHING GRADE: UL 94 V0
RATED VOLTAGE: 300 V max
OPERATING TEMPERATURE: 75 °C max
ACCORDING TO STD.: UL 486 A-B

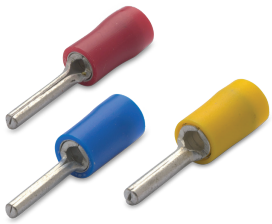
Code	Color	Section (mm²)	Section (AWG)	W1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	D1 (mm)	D2 (mm)	
00150	Red	0.25 ÷ 1.5	(22 - 16)	1,8	22,4	10,4	12	4,2	1,95	100/1000
00151	Red			1,8	20	10,4	9	4,2	1,95	100/1000
00250	Blue	1.5 ÷ 2.5	(16 - 14)	1,8	23	11	12	4,8	2,45	100/1000
00251	Blue			1,8	20	11	9	4,8	2,45	100/1000
00350	Yellow	4 ÷ 6	(12 - 10)	2,6	28	14	14	6,6	3,5	50/500

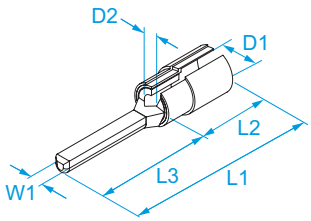
CSV E-B170 (0,5-1,5 mm²)
E-B171 (1,5-2,5 mm²)
E-B172 (4-6 mm²)

cULus file n° E 137735

V0 · EASYENTRY

TERMINAL LUGS FOR COPPER CONDUCTORS · PVC INSULATED AND ANTI-VIBRATING FROM SHEET · ROUND PIN





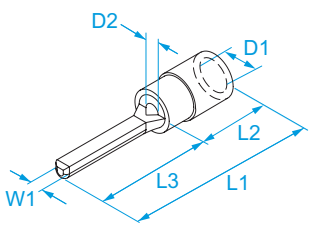
TERMINAL MATERIAL: tinned copper
END-SLEEVE MATERIAL: copper
INSULATION MATERIAL: polyvinylchloride (PVC)
INSULATION SELF-EXTINGUISHING GRADE: UL 94 V0
RATED VOLTAGE: 300 V max
OPERATING TEMPERATURE: 75 °C max
ASSEMBLING: double crimping

Code	Color	Section (mm²)	Section (AWG)	W1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	D1 (mm)	D2 (mm)	
90150	Red	0.25 ÷ 1.5	(22 - 16)	1,9	22	10	12	4,4	1,7	100/1000
90151	Red			1,9	19	10	9	4,4	1,7	100/1000
90250	Blue	1.5 ÷ 2.5	(16 - 14)	1,9	22	10	9	5	2,4	100/1000
90251	Blue			1,9	19	10	9	5	2,4	100/1000
90350	Yellow	4 ÷ 6	(12 - 10)	2,7	28	14	14	6,7	3,6	50/500

c UL us LISTED file n° E 137735

V0 EASYENTRY

TERMINAL LUGS FOR COPPER CONDUCTORS · NYLON INSULATED FROM SHEET · ROUND PIN

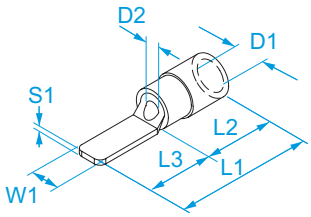


TERMINAL MATERIAL: tinned copper
INSULATION MATERIAL: polyamide (PA 6.6)
INSULATION SELF-EXTINGUISHING GRADE: UL 94 V2
RATED VOLTAGE: 300 V max
OPERATING TEMPERATURE: 105 °C max

Code	Color	Section (mm²)	Section (AWG)	W1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	D1 (mm)	D2 (mm)	
80150	Red	0.25 ÷ 1.5	(22 - 16)	1,8	22	10,4	12	4,2	1,95	100/1000
80250	Blue	1.5 ÷ 2.5	(16 - 14)	1,8	23	11	12	4,8	2,45	100/1000
80350	Yellow	4 ÷ 6	(12 - 10)	2,6	28	14	14	6,6	3,6	100/1000

HALOGEN FREE 105 °C EASYENTRY

TERMINAL LUGS FOR COPPER CONDUCTORS · PVC INSULATED FROM SHEET · BLADE PIN



TERMINAL MATERIAL: tinned copper
INSULATION MATERIAL: polyvinylchloride (PVC)
INSULATION SELF-EXTINGUISHING GRADE: UL 94 V0
RATED VOLTAGE: 300 V max
OPERATING TEMPERATURE: 75 °C max

Code	Color	Section (mm²)	Section (AWG)	W1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	D1 (mm)	D2 (mm)	S1 (mm)	
00152	Red	0.25 ÷ 1.5	(22 - 16)	2,8	18,5	9,5	9	4	1,95	0,8	100/1000
00153	Red			3	24	9,5	14,5	4	1,95	0,8	100/1000
00252	Blue	1.5 ÷ 2.5	(16 - 14)	2,8	18,5	9,5	9	4,5	2,45	0,8	100/1000
00253	Blue			2,8	25,5	9,5	16	4,5	2,45	0,8	100/1000
00352	Yellow	4 ÷ 6	(12 - 10)	2,8	24	14	10,4	6,6	3,5	1	50/500
00353	Yellow			4,5	32	14	18	6,6	3,5	1	50/500

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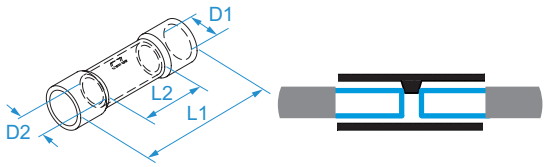
V0 EASYENTRY

BUTT CONNECTORS · PVC INSULATED



TERMINAL MATERIAL: tinned copper
INSULATION MATERIAL: polyvinylchloride (PVC)
INSULATION SELF-EXTINGUISHING GRADE: UL 94 V2
OPERATING TEMPERATURE: 75 °C max
MAX RATED VOLTAGE:300V
TYPE: with central flush for a right insertion of the conductor.

Code	Color	Section (mm²)	Section (AWG)	Current (A)	L1 (mm)	L2 (mm)	D1 (mm)	D2 (mm)	
00160	Red	0.25 ÷ 1.5	(22 - 16)	17	25	15	4,2	1,8	100/1000
00260	Blue	1.5 ÷ 2.5	(16 - 14)	30	26,5	15	4,8	2,5	100/1000
00360	Yellow	4 ÷ 6	(12 - 10)	50	27	15	6,5	3,7	50/500

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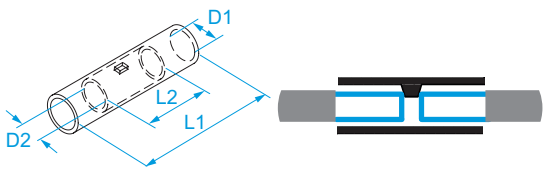
BUTT CONNECTORS · NYLON INSULATED



TERMINAL MATERIAL: tinned copper
INSULATION MATERIAL: polyamide (PA6.6)
INSULATION SELF-EXTINGUISHING GRADE: UL 94 V2
OPERATING TEMPERATURE: 105 °C max
MAX RATED VOLTAGE:300V
TYPE: with central flush for a right insertion of the conductor.

Code	Color	Section (mm²)	Section (AWG)	L1 (mm)	L2 (mm)	D1 (mm)	D2 (mm)	
80160	Red	0.25 ÷ 1.5	(22 - 16)	26	15	3,4	1,7	100/1000
80260	Blue	1.5 ÷ 2.5	(16 - 14)	27	15	4,1	2,4	100/1000
80360	Yellow	4 ÷ 6	(12 - 10)	28	15	5,6	3,6	50/500
80460•	Black	10	(8)	43	26	8,2	4,8	100/100
80560•	Black	16	(6)	46	29	9	6	100/100
80660•	Black	25	(4)	46	29	11,5	7	100/100

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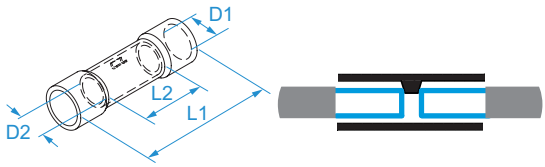
105 °C

BUTT CONNECTORS · WITH HEAT SHRINKING INSULATION

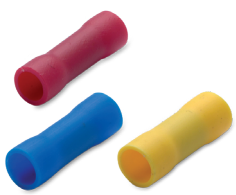


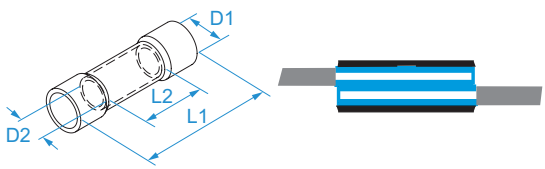
TERMINAL MATERIAL: tinned copper
INSULATION MATERIAL: PE thermo-shrinkable with sealing adhesive
OPERATING TEMPERATURE: from -55 °C to +105 °C
SHRINKING TEMP:150°C
MAX RATED VOLTAGE:600V
TYPE: with central flush for a right insertion of the conductor.
HOW TO ASSEMBLE: use heat air gun 1108

Code	Color	Section (mm²)	Section (AWG)	L1 (mm)	L2 (mm)	D1 (mm)	D2 (mm)	
90160	Red	0.5 ÷ 1.5	(20 - 16)	35	15	4,5	1,8	100/1000
90260	Blue	1.5 ÷ 2.5	(16 - 14)	37	15	5,5	2,5	100/1000
90360	Yellow	4 ÷ 6	(12 - 10)	41	15	6,5	3,7	50/500

HALOGEN FREE

PARALLEL BUTT CONNECTORS · PVC INSULATED





TERMINAL MATERIAL: tinned copper
INSULATION MATERIAL: polyvinylchloride (PVC)
INSULATION SELF-EXTINGUISHING GRADE: UL 94 V2
OPERATING TEMPERATURE: 75 °C max
MAX RATED VOLTAGE:300V
HOW TO ASSEMBLE: overlap the two conductors

Code	Color	Section (mm²)	Section (AWG)	Current (A)	L1 (mm)	L2 (mm)	D1 (mm)	D2 (mm)	
00162	Red	0.25 ÷ 1.5	(22 - 16)	17	18	8	4,2	1,8	100/1000
00262	Blue	1.5 ÷ 2.5	(16 - 14)	30	18	8	4,8	2,5	100/1000
00362	Yellow	4 ÷ 6	(12 - 10)	50	21,5	8,5	6,5	3,7	50/500

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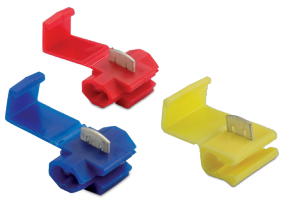
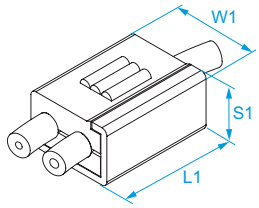
QUICK CONNECTOR WITH INSULATION-PIERCING



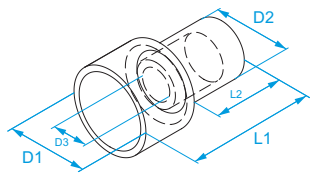


CONDUCTIVE BODY IN: copper
INSULATING HOUSING IN: polypropylene (PP)
RATED VOLTAGE: 300 V

Code	Section (mm²)	Section (AWG)	Operating temperature	Shells Color	W1 (mm)	L1 (mm)	S1 (mm)	Current (A)	
00110	0.25÷1	(22-18)	90 °C max	Red	20	15,3	10	17	500/500
00210	1.25÷2.5	(18-14)	90 °C max	Blue	20	15,9	10	30	500/500
00310	4÷6	(12-10)	90 °C max	Yellow	21	17,5	13	50	250/250

CE UKCA

ONE-WAY TERMINAL BLOCKS · END CONNECTORS · FOR CRIMPING



INSULATING HOUSING: polyamide (PA 6.6) natural color UL 94 V2
CONDUCTIVE BODY: tinned copper
MAX OPERATING TEMPERATURE: 105 °C
MAX RATED VOLTAGE: 600 V
ACCORDING TO STD.: UL486C
ASSEMBLY: the actual connection capacity changes according to the number and section of the conductors as shown in the application note (website)
CRIMPING TOOL: 528

Code	Conductor section (mm²)	Conductor section (AWG)	Connection capability	ID tool	D1 (mm)	D2 (mm)	D3 (mm)	L1 (mm)	L2 (mm)	
00170	0,25 ÷ 1,5	(22-16)	2÷5	2	6,2	5,6	2,6	15,2	6,8	100/1000
00270	1,5 ÷ 2,5	(16-14)	2÷7	2	6,5	5,9	3,2	15,2	7	100/1000
00370	2.5 ÷ 6	(12-10)	2÷5	5	9,4	7,3	4	17,8	8,5	50/500
00470•	6 ÷ 10	(20-10)	2÷4		12	9,3	4,6	22,2	9,3	100/1000

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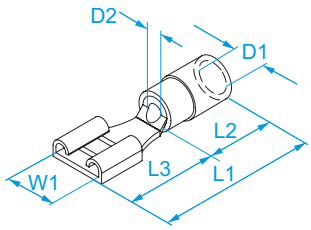
QUICK-CONNECT TERMINALS · PVC INSULATED AND ANTI-VIBRATING · FEMALE



TERMINAL MATERIAL: tinned brass
END-SLEEVE MATERIAL: copper
INSULATION MATERIAL: polyvinylchloride (PVC)
OPERATING TEMPERATURE: 75 °C max
INSULATION SELF-EXTINGUISHING GRADE: UL 94 V0
RATED VOLTAGE: 300V max
HOW TO ASSEMBLE: double crimping

Code	Color	Section (mm²)	Section (AWG)	For male (mm)	For male (")	W1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	D1 (mm)	D2 (mm)	
00190	Red	0.25 ÷ 1.5	(22 - 16)	6.3 x 0.8	0.250x0.032	6,6	20,7	10	7,8	3,8	1,9	100/1000
00105•	Red			5.2 x 0.8	0.205x0.032	5,5	18,7	10	6,4	3,8	1,9	100/1000
00145	Red			4.8 x 0.5	0.187x0.020	5	19,1	10	6	3,8	1,9	100/1000
00148	Red			4.8 x 0.8	0.187x0.032	5	19,1	10	6	3,8	1,9	100/1000
00395	Red			2.8 x 0.5	0.110x0.020	3,2	18,5	10	6,4	3,8	1,9	100/1000
00390	Red			2.8 x 0.8	0.110x0.032	3,2	18,5	10	6,4	3,8	1,9	100/1000
00290	Blue	1.5 ÷ 2.5	(16 - 14)	6.3 x 0.8	0.250x0.032	6,6	20,7	10	7,8	4,3	2,4	100/1000
00205•	Blue			5.2 x 0.8	0.205x0.032	5,5	18,7	10	6,4	4,3	2,4	100/1000
00245	Blue			4.8 x 0.5	0.187x0.020	5	18,7	10	6	4,3	2,4	100/1000
00248	Blue			4.8 x 0.8	0.187x0.032	5	18,7	10	6	4,3	2,4	100/1000
00391	Yellow	4 ÷ 6	(12 - 10)	6.3 x 0.8	0.250x0.032	6,6	24,5	14	7,8	6,8	3,5	50/500
00393•	Yellow			9.8 x 1.1	0.375x0.043	10	29	14	12	6,8	3,5	50/500

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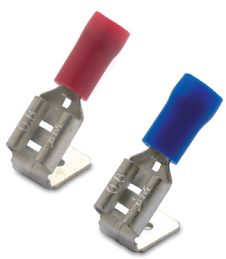
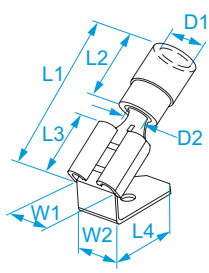
V0 EASYENTRY

QUICK-CONNECT TERMINALS · PVC INSULATED AND ANTI-VIBRATING · PIGGY-BACKS





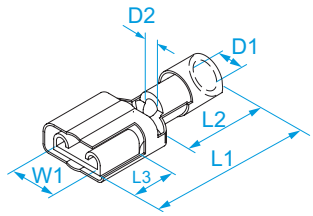
TERMINAL MATERIAL: tinned brass
END-SLEEVE MATERIAL: copper
INSULATION MATERIAL: polyvinylchloride (PVC)
OPERATING TEMPERATURE: 75 °C max
INSULATION SELF-EXTINGUISHING GRADE: UL 94 V0
RATED VOLTAGE: 300V max
HOW TO ASSEMBLE: double crimping

Code	Color	Section (mm²)	Section (AWG)	For male (mm)	For male (")	W1 (mm)	W2 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	D1 (mm)	D2 (mm)	
00198	Red	0.25 ÷ 1.5	(22 - 16)	6.3 x 0.8	0.250x0.032	6,6	6,3	22,8	10,5	7,8	8	3,8	1,9	100/1000
00298	Blue	1.5 ÷ 2.5	(16 - 14)	6.3 x 0.8	0.250x0.032	6,6	6,3	22,8	10,5	7,8	8	4,3	2,5	50/500

c UL us LISTED file n° E 143070

V0 EASYENTRY

QUICK-CONNECT TERMINALS · PVC INSULATED AND ANTI-VIBRATING · FEMALE TOTALLY INSULATED



TERMINAL MATERIAL: tinned brass
END-SLEEVE MATERIAL: copper
INSULATION MATERIAL: polyvinylchloride (PVC)
OPERATING TEMPERATURE: 75 °C max
INSULATION SELF-EXTINGUISHING GRADE: UL 94 V0
RATED VOLTAGE: 300V max
HOW TO ASSEMBLE: double crimping

Code	Color	Section (mm²)	Section (AWG)	For male (mm)	For male (")	W1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	D1 (mm)	D2 (mm)	
00191	Red	0.25 ÷ 1.5	(22 - 16)	6.3 x 0.8	0.250x0.032	6,6	22	11	7,8	3,8	1,9	100/1000
00192	Red			4.8 x 0.8	0.187x0.032	5	20	11	6	3,8	1,9	100/1000
00193•	Red			4.8 x 0.5	0.187x0.020	5	20	11	6	3,8	1,9	100/1000
00291	Blue	1.5 ÷ 2.5	(16 - 14)	6.3 x 0.8	0.250x0.032	6,6	22	11	7,8	4,5	2,4	50/500
00292	Blue			4.8 x 0.8	0.187x0.032	5	20	11	6	4,5	2,4	100/1000
00293•	Blue			4.8 x 0.5	0.187x0.020	5	20	11	6	4,5	2,4	100/1000
00392	Yellow	4 ÷ 6	(12 - 10)	6.3 x 0.8	0.250x0.032	6,6	25	11	7,8	6	3,5	50/500

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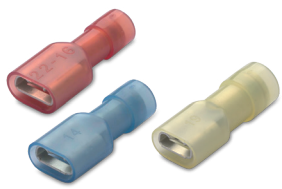
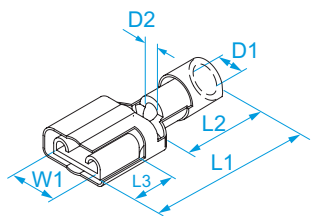
V0 EASYENTRY

QUICK-CONNECT TERMINALS · NYLON INSULATED AND ANTI-VIBRATING · TOTALLY INSULATED FEMALE



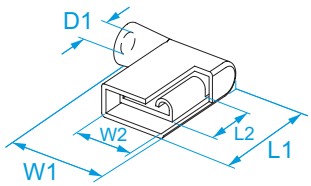


TERMINAL MATERIAL: tinned brass
END-SLEEVE MATERIAL: copper
INSULATION MATERIAL: polyamide (PA 6.6)
OPERATING TEMPERATURE: 105 °C max
INSULATION SELF-EXTINGUISHING GRADE: UL 94 V2
RATED VOLTAGE: 300V max
HOW TO ASSEMBLE: double crimping

Code	Color	Section (mm²)	Section (AWG)	For male (mm)	For male (")	W1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	D1 (mm)	D2 (mm)	
80191	Red	0.25 ÷ 1.5	(22 - 16)	6.3 x 0.8	0.250x0.032	6,6	22	11	7,8	3,8	1,9	100/1000
80192	Red			4.8 x 0.8	0.187x0.032	5	20,5	10,5	6,4	3,8	1,9	100/1000
80193	Red			4.8 x 0.5	0.187x0.020	5	20,5	10,5	6,4	3,8	1,9	100/1000
80390	Red			2.8 x 0.8	0.110x0.032	3,2	19,5	8,5	6	3,8	1,9	100/1000
80395	Red			2.8 x 0.5	0.110x0.020	3,2	19,5	8,5	6	3,8	1,9	100/1000
80291	Blue	1.5 ÷ 2.5	(16 - 14)	6.3 x 0.8	0.250x0.032	6,6	22	11	7,8	4,5	2,4	50/500
80292	Blue			4.8 x 0.8	0.187x0.032	5	20,5	10,5	6,4	4,5	2,4	100/1000
80293	Blue			4.8 x 0.5	0.187x0.020	5	20,5	10,5	6,4	4,5	2,4	100/1000
80392	Yellow	4 ÷ 6	(12 - 10)	6.3 x 0.8	0.250x0.032	6,6	24	13	7,8	6	3,5	50/500

105 °C HALOGEN FREE EASYENTRY

QUICK-CONNECT TERMINALS · NYLON INSULATED · TOTALLY INSULATED FEMALE · FLAG TYPE



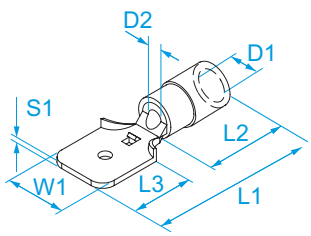
TERMINAL MATERIAL: tinned brass
INSULATION MATERIAL: polyamide (PA 6.6)
OPERATING TEMPERATURE: 105 °C max
INSULATION SELF-EXTINGUISHING GRADE: UL 94 V2
RATED VOLTAGE: 300V max
HOW TO ASSEMBLE: double crimping

Code	Color	Section (mm²)	Section (AWG)	For male (mm)	For male (")	W1 (mm)	W2 (mm)	L1 (mm)	L2 (mm)	D1 (mm)	
80195	Red	0.5 ÷ 1.5	(20 - 16)	6.3 x 0.8	0.250x0.032	15	6,6	16	7,9	4	100/1000
80295	Blue	1.5 ÷ 2.5	(16 - 14)	6.3 x 0.8	0.250x0.032	15	6,6	16	7,9	4,5	100/1000

105 °C

HALOGEN FREE

QUICK-CONNECT TERMINALS · PVC INSULATED AND ANTI-VIBRATING · MALE



TERMINAL MATERIAL: tinned brass
END-SLEEVE MATERIAL: copper
INSULATION MATERIAL: polyvinylchloride (PVC)
OPERATING TEMPERATURE: 75 °C max
INSULATION SELF-EXTINGUISHING GRADE: UL 94 V0
RATED VOLTAGE: 300V max
HOW TO ASSEMBLE: double crimping

Code	Color	Section (mm²)	Section (AWG)	Male (mm)	Male (")	W1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	D1 (mm)	D2 (mm)	S1 (mm)	
00180	Red	0.25 ÷ 1.5	(22 - 16)	6.3 x 0.8	0.250x0.032	6,3	21	10	8	3,8	1,9	0,8	100/1000
00280	Blue	1.5 ÷ 2.5	(16 - 14)	6.3 x 0.8	0.250x0.032	6,3	21	10	8	4,3	2,4	0,8	100/1000
00380	Yellow	4 ÷ 6	(12 - 10)	6.3 x 0.8	0.250x0.032	6,3	24,5	13,5	8	6	3,5	0,8	50/500

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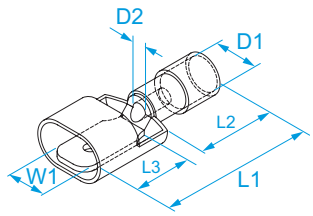
V0

EASYENTRY

QUICK-CONNECT TERMINALS · NYLON INSULATED AND ANTI-VIBRATING · TOTALLY INSULATED MALE

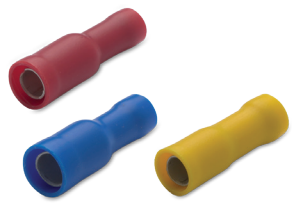


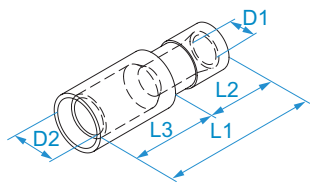
TERMINAL MATERIAL: tinned brass
END-SLEEVE MATERIAL: copper
INSULATION MATERIAL: polyamide (PA 6.6)
OPERATING TEMPERATURE: 105 °C max
INSULATION SELF-EXTINGUISHING GRADE: UL 94 V2
RATED VOLTAGE: 300V max
HOW TO ASSEMBLE: double crimping

Code	Color	Section (mm²)	Section (AWG)	Male (mm)	Male (")	W1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	D1 (mm)	D2 (mm)	
80180	Red	0.25 ÷ 1.5	(22 - 16)	6.3 x 0.8	0.250x0.032	6,3	23	11	8	3,8	1,9	100/1000
80280	Blue	1.5 ÷ 2.5	(16 - 14)	6.3 x 0.8	0.250x0.032	6,3	23	11	8	3,8	1,9	50/500
80380	Yellow	4 ÷ 6	(12 - 10)	6.3 x 0.8	0.250x0.032	6,3	26	13	8	6	3,5	50/500

105 °C HALOGEN FREE EASYENTRY

CYLINDER PLUG · PVC INSULATED AND ANTI-VIBRATING · FEMALE





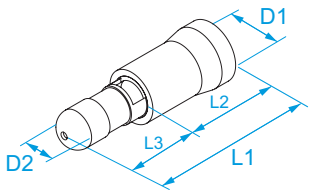
TERMINAL MATERIAL: tinned brass
END-SLEEVE MATERIAL: copper
INSULATION MATERIAL: polyvinylchloride (PVC)
OPERATING TEMPERATURE: 75 °C max
INSULATION SELF-EXTINGUISHING GRADE: UL 94 V0
RATED VOLTAGE: 300V max
HOW TO ASSEMBLE: double crimping

Code	Color	Section (mm²)	Section (AWG)	L1 (mm)	L2 (mm)	L3 (mm)	D1 (mm)	D2 (mm)	
00140	Red	0.25 ÷ 1.5	(22 - 16)	23,5	9,5	8,4	3,8	4	100/1000
00240	Blue	1.5 ÷ 2.5	(16 - 14)	23,5	9,5	8,7	4,3	5	50/500
00244	Blue			23,5	9,5	8,7	4,3	4	50/500
00340•	Yellow	4 ÷ 6	(12 - 10)	25	12	8,2	6,2	5	50/500

c UL us file n° E 137735 • No UL

V0 EASYENTRY

CYLINDER PLUG · PVC INSULATED AND ANTI-VIBRATING · MALE



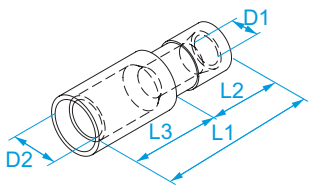
TERMINAL MATERIAL: tinned brass
END-SLEEVE MATERIAL: copper
INSULATION MATERIAL: polyvinylchloride (PVC)
OPERATING TEMPERATURE: 75 °C max
INSULATION SELF-EXTINGUISHING GRADE: UL 94 V0
RATED VOLTAGE: 300V max
HOW TO ASSEMBLE: double crimping

Code	Color	Section (mm²)	Section (AWG)	L1 (mm)	L2 (mm)	L3 (mm)	D1 (mm)	D2 (mm)	
00130	Red	0.25 ÷ 1.5	(22 - 16)	21	10	8,7	5,5	4	100/1000
00230	Blue	1.5 ÷ 2.5	(16 - 14)	21	10	8,7	6	5	100/1000
00234	Blue			20,7	10	8,7	6	4	100/1000
00330•	Yellow	4 ÷ 6	(12 - 10)	24,7	14	8,6	6,7	5	50/500

c UL us file n° E 137735 • No UL

V0 EASYENTRY

CYLINDER PLUG · NYLON INSULATED AND ANTI-VIBRATING · FEMALE

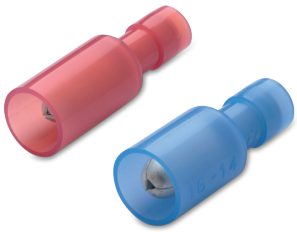


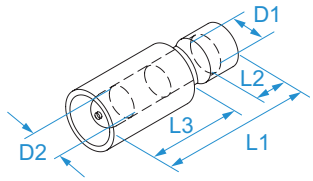
TERMINAL MATERIAL: tinned brass
END-SLEEVE MATERIAL: copper
INSULATION MATERIAL: polyamide (PA 6.6)
OPERATING TEMPERATURE: 105 °C max
INSULATION SELF-EXTINGUISHING GRADE: UL 94 V2
RATED VOLTAGE: 300V max
HOW TO ASSEMBLE: double crimping

Code	Color	Section (mm²)	Section (AWG)	L1 (mm)	L2 (mm)	L3 (mm)	D1 (mm)	D2 (mm)	
80140	Red	0.25 ÷ 1.5	(22 - 16)	23	11	9	4,2	4	50/500
80240	Blue	1.5 ÷ 2.5	(16 - 14)	23	11	9	4,8	5	50/500

105 °C HALOGEN FREE EASYENTRY

CYLINDER PLUG · NYLON INSULATED AND ANTI-VIBRATING · MALE



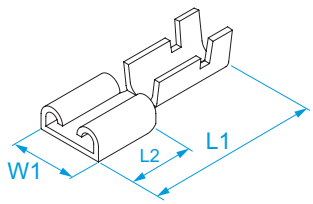


TERMINAL MATERIAL: tinned brass
END-SLEEVE MATERIAL: copper
INSULATION MATERIAL: polyamide (PA 6.6)
OPERATING TEMPERATURE: 105 °C max
INSULATION SELF-EXTINGUISHING GRADE: UL 94 V2
RATED VOLTAGE: 300V max
HOW TO ASSEMBLE: double crimping

Code	Color	Section (mm²)	Section (AWG)	L1 (mm)	L2 (mm)	L3 (mm)	D1 (mm)	D2 (mm)	
80130	Red	0.25 ÷ 1.5	(22 - 16)	24	11	9	4,2	4	50/500
80230	Blue	1.5 ÷ 2.5	(16 - 14)	24	11	9	4,8	5	50/500

105 °C HALOGEN FREE EASYENTRY

QUICK-CONNECT TERMINALS · UNINSULATED · FEMALE

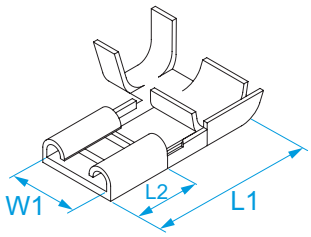


TERMINAL MATERIAL: tinned/passivated brass
ACCORDING TO STD.: EN 61210: 2010-11
OPERATING TEMPERATURE: da -40 °C a +110 °C

Code	Material	Execution	Section (mm²)	Section (AWG)	For male (mm)	For male (")	W1 (mm)	L1 (mm)	L2 (mm)	
01190	passivated brass	loose	0.5 ÷ 1	(20 - 18)	6.3 x 0.8	0.250x0.032	7,6	19,2	7,6	200/2000
01191	tinned brass	loose			6.3 x 0.8	0.250x0.032	7,6	19,2	7,6	200/2000
02190	passivated brass	reel			6.3 x 0.8	0.250x0.032	7,6	19,2	7,6	7000/7000
02191	tinned brass	reel			6.3 x 0.8	0.250x0.032	7,6	19,2	7,6	7000/7000
01148	passivated brass	loose	0.5 ÷ 1	(20 - 18)	4.8 x 0.8	0.187x0.032	5,8	15,6	6,4	200/2000
01149	tinned brass	loose			4.8 x 0.8	0.187x0.032	5,8	15,6	6,4	200/2000
02148	passivated brass	reel			4.8 x 0.8	0.187x0.032	5,8	15,6	6,4	10000/10000
02149	tinned brass	reel			4.8 x 0.8	0.187x0.032	5,8	15,6	6,4	10000/10000
01145	passivated brass	loose	0.5 ÷ 1	(20 - 18)	4.8 x 0.5	0.187x0.020	5,8	15,6	6,4	200/2000
01146	tinned brass	loose			4.8 x 0.5	0.187x0.020	5,8	15,6	6,4	200/2000
02145	passivated brass	reel			4.8 x 0.5	0.187x0.020	5,8	15,6	6,4	8000/8000
02146	tinned brass	reel			4.8 x 0.5	0.187x0.020	5,8	15,6	6,4	8000/8000
01390	passivated brass	loose	0.5 ÷ 1	(20 - 18)	2.8 x 0.8	0.110x0.032	3,7	14	6,5	200/2000
01391	tinned brass	loose			2.8 x 0.8	0.110x0.032	3,7	14	6,5	200/2000
02390	passivated brass	reel			2.8 x 0.8	0.110x0.032	3,7	14	6,5	15000/15000
02391	tinned brass	reel			2.8 x 0.8	0.110x0.032	3,7	14	6,5	15000/15000
01395	passivated brass	loose	0.5 ÷ 1	(20 - 18)	2.8 x 0.5	0.110x0.020	3,7	14	6,5	200/2000
01396	tinned brass	loose			2.8 x 0.5	0.110x0.020	3,7	14	6,5	200/2000
02395	passivated brass	reel			2.8 x 0.5	0.110x0.020	3,7	14	6,5	15000/15000
02396	tinned brass	reel			2.8 x 0.5	0.110x0.020	3,7	14	6,5	15000/15000
01290	passivated brass	loose	1 ÷ 2.5	(18 - 14)	6.3 x 0.8	0.250x0.032	7,6	19,2	7,6	100/1000
01291	tinned brass	loose			6.3 x 0.8	0.250x0.032	7,6	19,2	7,6	100/1000
02290	passivated brass	reel			6.3 x 0.8	0.250x0.032	7,6	19,2	7,6	6500/6500
02291	tinned brass	reel			6.3 x 0.8	0.250x0.032	7,6	19,2	7,6	6500/6500

CE

QUICK-CONNECT TERMINALS · UNINSULATED · FEMALE · FLAG TYPE

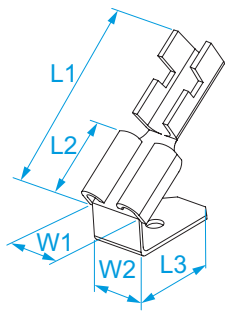


TERMINAL MATERIAL: tinned/passivated brass
ACCORDING TO STD.: EN 61210: 2010-11
OPERATING TEMPERATURE: da -40 °C a +110 °C

Code	Material	Execution	Section (mm²)	Section (AWG)	For male (mm)	For male (")	W1 (mm)	L1 (mm)	L2 (mm)	
01195	passivated brass	loose	0.5 ÷ 1	(20 - 18)	6.3 x 0.8	0.250x0.032	6,6	15	7,6	100/500
01196	tinned brass	loose			6.3 x 0.8	0.250x0.032	6,6	15	7,6	200/2000
02195	passivated brass	reel			6.3 x 0.8	0.250x0.032	6,6	15	7,6	5500/5500
02196	tinned brass	reel			6.3 x 0.8	0.250x0.032	6,6	15	7,6	5500/5500
01295	passivated brass	loose	1.5 ÷ 2.5	(16 - 14)	6.3 x 0.8	0.250x0.032	6,6	15	7,6	100/1000
01296	tinned brass	loose			6.3 x 0.8	0.250x0.032	6,6	15	7,6	100/1000
02295	passivated brass	reel			6.3 x 0.8	0.250x0.032	6,6	15	7,6	5000/5000
02296	tinned brass	reel			6.3 x 0.8	0.250x0.032	6,6	15	7,6	5000/5000

CE

QUICK-CONNECT TERMINALS · UNINSULATED · PIGGY-BACKS

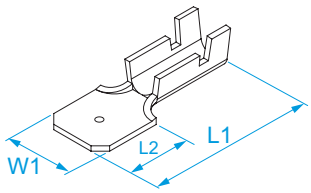


TERMINAL MATERIAL: tinned/passivated brass
ACCORDING TO STD.: EN 61210: 2010-11
OPERATING TEMPERATURE: da -40 °C a +110 °C

Code	Material	Execution	Section (mm²)	Section (AWG)	For male (mm)	For male (")	W1 (mm)	W2 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	
01198	passivated brass	loose	0.5 ÷ 1	(20 - 18)	6.3 x 0.8	0.250x0.032	6,6	6,3	19,6	7,6	8	100/1000
01199	tinned brass	loose			6.3 x 0.8	0.250x0.032	6,6	6,3	19,6	7,6	8	100/1000
02198	passivated brass	reel			6.3 x 0.8	0.250x0.032	6,6	6,3	19,6	7,6	8	1300/1300
02199	tinned brass	reel			6.3 x 0.8	0.250x0.032	6,6	6,3	19,6	7,6	8	1300/1300
01298	passivated brass	loose	1 ÷ 2.5	(18 - 14)	6.3 x 0.8	0.250x0.032	6,6	6,3	19,6	7,6	8	100/1000
01299	tinned brass	loose			6.3 x 0.8	0.250x0.032	6,6	6,3	19,6	7,6	8	100/1000
02298	passivated brass	reel			6.3 x 0.8	0.250x0.032	6,6	6,3	19,6	7,6	8	1800/1800
02299	tinned brass	reel			6.3 x 0.8	0.250x0.032	6,6	6,3	19,6	7,6	8	1300/1300

CE

QUICK-CONNECT TERMINALS · UNINSULATED · MALE

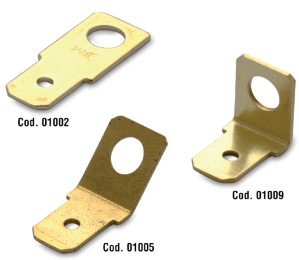


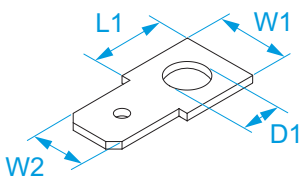
TERMINAL MATERIAL: tinned/passivated brass
ACCORDING TO STD.: EN 61210: 2010-11
OPERATING TEMPERATURE: da -40 °C a +110 °C

Code	Material	Execution	Section (mm²)	Section (AWG)	Male (mm)	Male (")	W1 (mm)	L1 (mm)	L2 (mm)	
01180	passivated brass	loose	0.5 ÷ 1	(20 - 18)	6.3 x 0.8	0.250x0.032	6,3	20,6	8	200/2000
01181	tinned brass	loose			6.3 x 0.8	0.250x0.032	6,3	20,6	8,2	200/2000
02180	passivated brass	reel			6.3 x 0.8	0.250x0.032	6,3	20,6	8	6000/6000
02181	tinned brass	reel			6.3 x 0.8	0.250x0.032	6,3	20,6	8	6000/6000
01280	passivated brass	loose	1 ÷ 2.5	(18 - 14)	6.3 x 0.8	0.250x0.032	6,3	20,6	8,2	200/2000
01281	tinned brass	loose			6.3 x 0.8	0.250x0.032	6,3	20,6	8,2	200/2000
02280	passivated brass	reel			6.3 x 0.8	0.250x0.032	6,3	20,6	8,2	6000/6000
02281	tinned brass	reel			6.3 x 0.8	0.250x0.032	6,3	20,6	8,2	6000/6000

CE

QUICK-CONNECT TERMINALS · UNINSULATED · MALE-PANEL



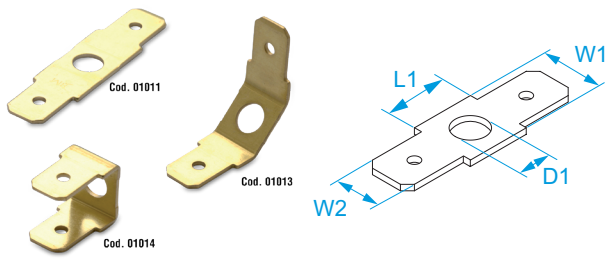


TERMINAL MATERIAL: tinned/passivated brass
ACCORDING TO STD.: EN 61210: 2010-11
OPERATING TEMPERATURE: da -40 °C a +110 °C

Code	Material	Male (mm)	Male (")	W1 (mm)	W2 (mm)	L1 (mm)	D1 (mm)	
01002	passivated brass	6.3 x 0.8	0.250x0.032	8	6,3	6,3	4,3	100/1000
02002	tinned brass	6.3 x 0.8	0.250x0.032	8	6,3	6,3	4,3	100/1000
01005	passivated brass	6.3 x 0.8	0.250x0.032	8	6,3	6,3	4,3	100/1000
02005	tinned brass	6.3 x 0.8	0.250x0.032	8	6,3	6,3	4,3	100/1000
01009	passivated brass	6.3 x 0.8	0.250x0.032	8	6,3	6,3	4,3	100/1000
02009	tinned brass	6.3 x 0.8	0.250x0.032	8	6,3	6,3	4,3	100/1000

CE

QUICK-CONNECT TERMINALS · UNINSULATED · MALE-PANEL-MALE

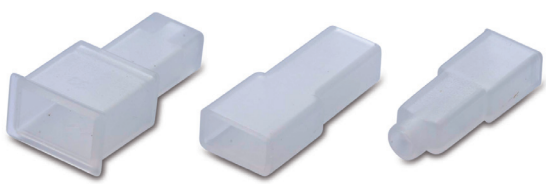


TERMINAL MATERIAL: tinned/passivated brass
ACCORDING TO STD.: EN 61210: 2010-11
OPERATING TEMPERATURE: da -40 °C a +110 °C

Code	Material	Male (mm)	Male (")	W1 (mm)	W2 (mm)	L1 (mm)	D1 (mm)	
01011	passivated brass	6.3 x 0.8	0.250x0.032	8	6,3	6,3	4,3	100/1000
02011	tinned brass	6.3 x 0.8	0.250x0.032	8	6,3	6,3	4,3	100/1000
01013	passivated brass	6.3 x 0.8	0.250x0.032	8	6,3	6,3	4,3	100/1000
02013	tinned brass	6.3 x 0.8	0.250x0.032	8	6,3	6,3	4,3	100/1000
01014	passivated brass	6.3 x 0.8	0.250x0.032	8	6,3	6,3	4,3	100/1000
02014	tinned brass	6.3 x 0.8	0.250x0.032	8	6,3	6,3	4,3	100/1000

CE

ACCESSORIES FOR QUICK CONECT TERMINALS: POLYETHYLENE SLEEVES

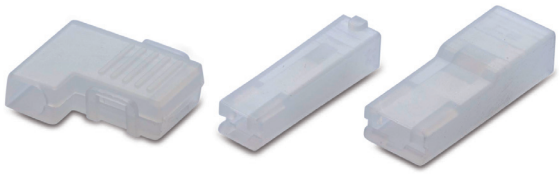


Cod. 01016 **Cod. 01017** **Cod. 01020** **Cod. 01021**

MATERIAL: polyethylene
INSULATION SELF-EXTINGUISHING GRADE: UL 94 HB
MAX OPERATING TEMPERATURE:60°C
COLOR: natural
RATED VOLTAGE:50V

Code	Connector type	For terminal (mm)	For terminal (")	
01020	female	2.8	0.11	1000/1000
01021	female	4.8	0.187	1000/1000
01017	female	6.3	0.25	1000/1000
01016	male	6.3	0.25	500/500

ACCESSORIES FOR QUICK CONECT TERMINALS: NYLON SLEEVES



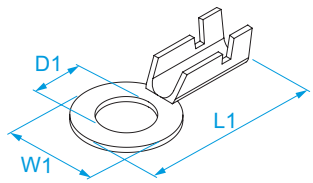
Cod. 01018 **Cod. 01019** **Cod. 01022**
Cod. 01023

MATERIAL: PA6.6
INSULATION SELF-EXTINGUISHING GRADE: UL 94 V2, IEC 695-2-1 at 850°C and IEC 695-2-2
MAX OPERATING TEMPERATURE:105°C
COLOR: natural
RATED VOLTAGE:450V

Code	Connector type	For terminal (mm)	For terminal (")	
01019	female	2.8	0.11	1000/1000
01023	female	4.8	0.187	1000/1000
01022	female	6.3	0.25	500/500
01018	female flag	6.3	0.25	500/500

TERMINAL LUGS FOR COPPER CONDUCTORS · UNINSULATED FROM SHEET · OPEN BRASS

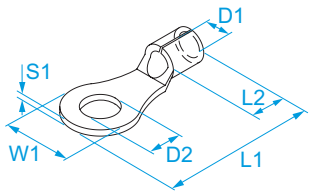
TERMINAL MATERIAL: tinned/passivated brass
OPERATING TEMPERATURE: from -50 °C to +150 °C



Code	Material	Execution	Section (mm²)	Section (AWG)	For screw Ø screw (mm)	For screw Stud size	W1 (mm)	L1 (mm)	D1 (mm)	
91103	passivated brass	loose	0.75 ÷ 1	(18)	3	#4	8	21	3,2	200/2000
91113	tinned brass	loose			3	#4	8	21	3,2	200/2000
92103	passivated brass	reel			3	#4	7	17,7	3,2	8000/8000
92113	tinned brass	reel			3	#4	7	17,7	3,2	8000/8000
91104	passivated brass	loose	0.75 ÷ 1	(18)	4	#8	8,7	20	4,3	200/2000
91114	tinned brass	loose			4	#8	8,7	20	4,3	200/2000
92104	passivated brass	reel			4	#8	7	17,7	4,2	8000/8000
92114	tinned brass	reel			4	#8	7	17,7	4,2	8000/8000
91105	passivated brass	loose	0.75 ÷ 1	(18)	5	#10	8,7	20	5,2	200/2000
91115	tinned brass	loose			5	#10	8,7	20	5,2	200/2000
92105	passivated brass	reel			5	#10	7	17,7	5,2	8000/8000
92115	tinned brass	reel			5	#10	7	17,7	5,2	8000/8000
91203	passivated brass	loose	1 ÷ 2.5	(18 - 14)	3	#4	8	21	3,2	200/2000
91213	tinned brass	loose			3	#4	8	21	3,2	200/2000
92203	passivated brass	reel			3	#4	7	17,7	3,2	5000/5000
92213	tinned brass	reel			3	#4	7	17,7	3,2	5000/5000
91204	passivated brass	loose	1 ÷ 2.5	(18 - 14)	4	#8	8,7	20	4,3	200/2000
91214	tinned brass	loose			4	#8	8,7	20	4,3	200/2000
92204	passivated brass	reel			4	#8	7	17,7	4,2	5000/5000
92214	tinned brass	reel			4	#8	7	17,7	4,2	5000/5000
91205	passivated brass	loose	1 ÷ 2.5	(18 - 14)	5	#10	8,7	20	5,2	200/2000
91215	tinned brass	loose			5	#10	8,7	20	5,2	200/2000
92205	passivated brass	reel			5	#10	7	17,7	5,2	5000/5000
92215	tinned brass	reel			5	#10	7	17,7	5,2	5000/5000

TERMINAL LUGS FOR COPPER CONDUCTORS · UNINSULATED FROM SHEET · RING

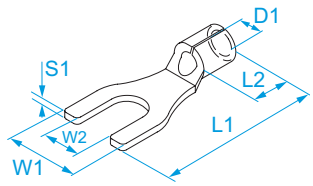
TERMINAL MATERIAL: tinned copper
OPERATING TEMPERATURE: from -50 °C to +150 °C



Code	Section (mm²)	Section (AWG)	For screw Ø screw (mm)	For screw Stud size	W1 (mm)	L1 (mm)	L2 (mm)	D1 (mm)	D2 (mm)	S1 (mm)	
01101	0.5 ÷ 1.5	(20 - 16)	2.5	#3	8	17,3	5,2	1,95	2,6	0,8	200/2000
01107			3	#4	8	17,3	5,2	1,95	3,2	0,8	200/2000
01113			3.5	#6	8	17,2	5,2	1,95	3,7	0,8	200/2000
01119			4	#8	7,4	15,4	5,2	1,95	4,3	0,8	200/2000
01125			5	#10	8	16,7	5,2	1,95	5,2	0,8	200/2000
01131			6	#12	10	18,7	5,2	1,95	6,2	0,8	200/2000
01137			8	5/16"	14	24,9	5,2	1,95	8,3	0,8	200/2000
01143			10	3/8"	14	24,9	5,2	1,95	10,4	0,8	200/2000
01201	1.5 ÷ 2.5	(16 - 14)	2.5	#3	8	17,2	5,2	2,45	2,6	0,8	200/2000
01207			3	#4	8	17,2	5,2	2,45	3,2	0,8	200/2000
01213			3.5	#6	8	17,2	5,2	2,45	3,7	0,8	200/2000
01219			4	#8	8	15,7	5,2	2,45	4,3	0,8	200/2000
01225			5	#10	9	17,2	5,2	2,45	5,2	0,8	200/2000
01231			6	#12	10,5	20,3	5,2	2,45	6,2	0,8	200/2000
01237			8	5/16"	13	24,4	5,2	2,45	8,2	0,8	200/2000
01243			10	3/8"	15	27,1	5,2	2,45	10,5	0,8	200/2000
01313	4 ÷ 6	(12 - 10)	3.5	#6	8	18,4	6,5	3,5	3,7	1	100/1000
01319			4	#8	8	18,4	6,5	3,5	4,2	1	100/1000
01325			5	#10	9,6	19,5	6,5	3,5	5,2	1	100/1000
01331			6	#12	11	21,8	6,5	3,5	6,2	1	100/1000
01337			8	5/16"	14	27	6,5	3,5	8,2	1	100/1000
01343			10	3/8"	19	32,2	6,5	3,5	10,5	1	100/1000

TERMINAL LUGS FOR COPPER CONDUCTORS · UNINSULATED FROM SHEET · FORK

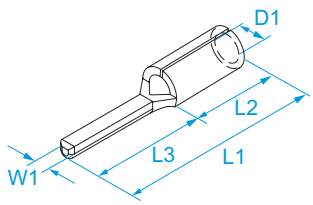
TERMINAL MATERIAL: tinned copper
OPERATING TEMPERATURE: from -50 °C to +150 °C



Code	Section (mm²)	Section (AWG)	For screw Ø screw (mm)	For screw Stud size	W1 (mm)	W2 (mm)	L1 (mm)	L2 (mm)	D1 (mm)	S1 (mm)	
01102	0.25 ÷ 1.5	(22 - 16)	2.5	#3	5,6	2,6	14,6	5,2	1,9	0,8	200/2000
01108			3	#4	5,6	3,2	14,6	5,2	1,9	0,8	200/2000
01114			3.5	#6	6,5	3,7	14,9	5,2	1,9	0,8	200/2000
01120			4	#8	6,5	4,2	15,7	5,2	1,9	0,8	200/2000
01126			5	#10	8	5,2	16,2	5,2	1,9	0,8	200/2000
01132			6	#12	9,2	6,2	17,5	5,2	1,9	0,8	200/2000
01202	1.5 ÷ 2.5	(16 - 14)	2.5	#3	5,6	2,6	17,2	5,2	2,4	0,8	200/2000
01208			3	#4	5,6	3,2	17,2	5,2	2,4	0,8	200/2000
01214			3.5	#6	6,5	3,7	14,3	5,2	2,4	0,8	200/2000
01220			4	#8	6,5	4,2	15,7	5,2	2,4	0,8	200/2000
01226			5	#10	9,1	5,2	19,2	5,2	2,4	0,8	200/2000
01232			6	#12	10	6,2	21	5,2	2,4	0,8	200/2000
01314	4 ÷ 6	(12 - 10)	3.5	#6	8	3,7	19,6	6,5	3,5	1	100/1000
01320			4	#8	8	4,2	18,6	6,5	3,5	1	100/1000
01326			5	#10	9	5,2	21,1	6,5	3,5	1	100/1000
01332			6	#12	11	6,2	22,3	6,5	3,5	1	100/1000
01338			8	5/16"	15,2	8,2	27,5	6,5	3,5	1	100/1000
01344			10	3/8"	19	10,2	30,2	6,5	3,5	1	100/1000

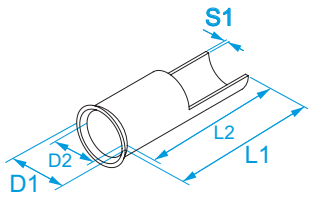
TERMINAL LUGS FOR COPPER CONDUCTORS · UNINSULATED FROM SHEET · ROUND PIN

TERMINAL MATERIAL: tinned copper
OPERATING TEMPERATURE: from -50 °C to +150 °C



Code	Section (mm²)	Section (AWG)	W1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	D1 (mm)	
01150	0.25 ÷ 1.5	(22 - 16)	1,8	17,3	5,2	12	1,8	200/2000
01151			1,8	14,2	5,2	9	1,8	200/2000
01250	1.5 ÷ 2.5	(16 - 14)	1,8	17,3	5,2	12	2,4	200/2000
01251			1,8	14,2	5,2	9	2,4	200/2000
01350	4 ÷ 6	(12 - 10)	2,6	20,5	6,5	12,5	3,6	100/1000

END-SLEEVES FOR COPPER CONDUCTORS · UNINSULATED · SINGLE CABLE



TERMINAL MATERIAL: tinned copper

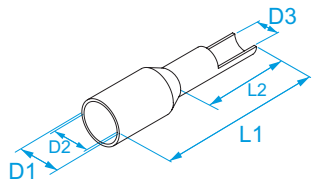
OPERATING TEMPERATURE: from -50°C to 150°C

ACCORDING TO STD.: DIN 46228-1 (tubular ferrules without plastic sleeve up to 50mm²), UL486F (bare and covered ferrules)

Code	Section (mm²)	Section (AWG)	Section not foreseen by DIN	L1 (mm)	L2 (mm)	D1 (mm)	D2 (mm)	S1 (mm)	
01501•	0,5	(20)		6	5,3	2,1	1	0,15	1000/10000
015011•				8	7,3	2,1	1	0,15	1000/10000
01502	0,75	(18)		6	5,3	2,3	1,2	0,15	1000/10000
015021				8	7,3	2,3	1,2	0,15	1000/10000
015025	1	(18)		6	5,3	2,5	1,4	0,15	1000/10000
01503				10	9,3	2,5	1,4	0,15	1000/10000
01504	1,5	(16)		7	6	2,8	1,7	0,15	1000/10000
015041				8	7	2,8	1,7	0,15	1000/10000
01505				10	9	2,8	1,7	0,15	1000/10000
01506	2,5	(14)		7	6	3,4	2,2	0,15	1000/10000
015061				8	7	3,4	2,2	0,15	1000/10000
015062				10	9	3,4	2,2	0,15	1000/10000
01507				12	11	3,4	2,2	0,15	1000/10000
01508	4	(12)		9	8	4	2,8	0,2	500/5000
015081				10	9	4	2,8	0,2	500/5000
01509				12	11	4	2,8	0,2	500/5000
015094	6	(10)		10	9	4	2,8	0,2	250/2500
01510				12	11	4,7	3,5	0,2	250/2500
01511				15	14	4,7	3,5	0,2	250/2500
01512	10	(8)		15	13,8	5,8	4,5	0,2	250/2500
01513				18	16,8	5,8	4,5	0,2	200/2000
01514	16	(6)		15	13,5	7,5	5,8	0,2	100/1000
01515				18	16,5	7,5	5,8	0,2	100/1000
015155	25	(4)		15	13	9,5	7,3	0,2	100/1000
01516				18	16	9,5	7,3	0,2	100/1000
015163	35	(2)		12	10	11	8,3	0,2	100/1000
01517				18	16	11	8,3	0,2	100/1000
01518	50	(1/0)		25	22	13	10,3	0,3	100/300
01519•*	70	(2/0)	√	30	28	13,5	12,5	0,5	100/300
01520•*	95	(3/0)	√	30	28	17,5	14,5	0,5	100/100
01521•*	120	(4/0)	√	30	28	19,5	17	0,5	100/100

file n° E 506333 • No UL * No CSA

END-SLEEVES FOR COPPER CONDUCTORS · INSULATED · SINGLE CABLE



TERMINAL MATERIAL: tinned copper

INSULATION MATERIAL: polypropylene (PP) without flame retardant

OPERATING TEMPERATURE: 105°C max

ACCORDING TO STD.: DIN 46228-4 (tubular ferrules with plastic sleeve), UL486F (bare and covered ferrules), CSA C22.2 No.291-14 (bare and covered ferrules)

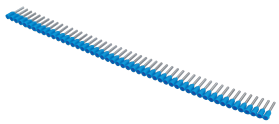
Code	Color	Standard color 1	Standard color 2	Color DIN 46228/4	Section (mm²)	Section (AWG/kcmil)	L1 (mm)	L2 (mm)	D1 (mm)	D2 (mm)	D3 (mm)	
005003•	Grey	√	-	-	0,14	(26)	10	6	2,1	1,6	0,7	500/5000
00701•	Brown	-	√	-			10	6	2,1	1,6	0,7	500/5000
005001•	Grey	√	-	-			12	8	2,5	1,6	0,7	500/5000
005004•	LIght blue	√	-	-	0,25	(24)	10	6	2,3	1,8	0,75	500/5000
007034•	Yellow	-	√	-			10	6	2,3	1,8	0,75	500/5000
00500•	LIght blue	√	-	-			12	8	2,5	1,8	0,75	500/5000
005005•	Turquoise	√	-	-	0,34	(22)	10	6	2,5	2	0,8	500/5000
007036•	Green	-	√	-			10	6	2,5	2	0,8	500/5000
005002•	Turquoise	√	-	-			12	8	2,5	2	0,8	500/5000
005012	Orange	√	-	-	0,5	(20)	12	6	3,1	2,6	1	500/5000
006011	White	-	√	√			12	6	3,1	2,6	1	500/5000
00501	Orange	√	-	-			14	8	3,1	2,6	1	500/5000
00601	White	-	√	√			14	8	3,1	2,6	1	500/5000
005011	Orange	√	-	-			16	10	3,1	2,6	1	500/5000
006012	White	-	√	√			16	10	3,1	2,6	1	500/5000
005021	White	√	-	-	0,75	(18)	12	6	3,3	2,8	1,2	500/5000
007021	LIght blue	-	√	-			12	6	3,3	2,8	1,2	500/5000
006021	Grey	-	-	√			12	6	3,3	2,8	1,2	500/5000
00502	White	√	-	-			14	8	3,3	2,8	1,2	500/5000
00702	LIght blue	-	√	-			14	8	3,3	2,8	1,2	500/5000
00602	Grey	-	-	√			14	8	3,3	2,8	1,2	500/5000
005022	White	√	-	-			16	10	3,3	2,8	1,2	500/5000
007022	LIght blue	-	√	-			16	10	3,3	2,8	1,2	500/5000
006022	Grey	-	-	√			16	10	3,3	2,8	1,2	500/5000
005023	White	√	-	-			18	12	3,3	2,8	1,2	500/5000
007023	LIght blue	-	√	-			18	12	3,3	2,8	1,2	500/5000
006023	Grey	-	-	√			18	12	3,3	2,8	1,2	500/5000
005031	Yellow	√	-	-	1	(18)	12	6	3,5	3	1,4	500/5000
006031	Red	-	√	√			12	6	3,5	3	1,4	500/5000
00503	Yellow	√	-	-			14	8	3,5	3	1,4	500/5000
00603	Red	-	√	√			14	8	3,5	3	1,4	500/5000
005032	Yellow	√	-	-			16	10	3,5	3	1,4	500/5000
006032	Red	-	√	√			16	10	3,5	3	1,4	500/5000
005033	Yellow	√	-	-			18	12	3,5	3	1,4	500/5000
006033	Red	-	√	√			18	12	3,5	3	1,4	500/5000
005042	Red	√	-	-	1,5	(16)	12	6	4	3,5	1,7	500/5000
006042	Black	-	√	√			12	6	4	3,5	1,7	500/5000
00504	Red	√	-	-			14	8	4	3,5	1,7	500/5000
00604	Black	-	√	√			14	8	4	3,5	1,7	500/5000
005041	Red	√	-	-			16	10	4	3,5	1,7	500/5000
006041	Black	-	√	√			16	10	4	3,5	1,7	500/5000
005043	Red	√	-	-			18	12	4	3,5	1,7	500/5000
006043	Black	-	√	√			18	12	4	3,5	1,7	500/5000
00505	Red	√	-	-			24	18	4	3,5	1,7	250/2500
00605	Black	-	√	√			24	18	4	3,5	1,7	250/2500
00506	Blue	√	-	√	2,5	(14)	14	8	4,7	4,2	2,2	250/2500
00706	Grey	-	√	-			14	8	4,7	4,2	2,2	250/2500
005062	Blue	√	-	√			16	10	4,7	4,2	2,2	250/2500
007071	Grey	-	√	-			16	10	4,7	4,2	2,2	250/2500

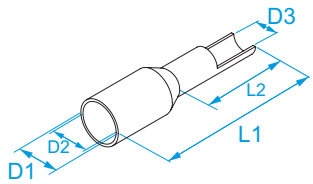
Code	Color	Standard color 1	Standard color 2	Color DIN 46228/4	Section (mm²)	Section (AWG/kcmil)	L1 (mm)	L2 (mm)	D1 (mm)	D2 (mm)	D3 (mm)	
005061	Blue	√	-	√	2,5	(14)	18	12	4,7	4,2	2,2	250/2500
007061	Grey	-	√	-			18	12	4,7	4,2	2,2	250/2500
00507	Blue	√	-	√			24	18	4,7	4,2	2,2	200/2000
00707	Grey	-	√	-			24	18	4,7	4,2	2,2	200/2000
00508	Grey	√	-	√	4	(12)	17	10	5,4	4,8	2,8	200/2000
00708	Orange	-	√	-			17	10	5,4	4,8	2,8	200/2000
005081	Grey	√	-	√			20	12	5,4	4,8	2,8	200/2000
007081	Orange	-	√	-			20	12	5,4	4,8	2,8	200/2000
00509	Grey	√	-	√			26	18	5,4	4,8	2,8	100/1000
00709	Orange	-	√	-			26	18	5,4	4,8	2,8	100/1000
00510	Black	√	-	-	6	(10)	20	12	6,9	6,3	3,5	100/1000
00710	Green	-	√	-			20	12	6,9	6,3	3,5	100/1000
00610	Yellow	-	-	√			20	12	6,9	6,3	3,5	100/1000
00511	Black	√	-	-			26	18	6,9	6,3	3,5	100/1000
00711	Green	-	√	-			26	18	6,9	6,3	3,5	100/1000
00611	Yellow	-	-	√			26	18	6,9	6,3	3,5	100/1000
00512	Ivory	√	-	-	10	(8)	22	12	8,4	7,6	4,5	50/500
00712	Brown	-	√	-			22	12	8,4	7,6	4,5	50/500
00612•	Red	-	-	√			22	12	8,4	7,6	4,5	50/500
00513	Ivory	√	-	-			28	18	8,4	7,6	4,5	50/500
00713	Brown	-	√	-			28	18	8,4	7,6	4,5	50/500
00613	Red	-	-	√			28	18	8,4	7,6	4,5	50/500
00514•	Green	√	-	-	16	(6)	24	12	9,6	8,8	5,8	50/500
00714	Ivory	-	√	-			24	12	9,6	8,8	5,8	50/500
00614	Blue	-	-	√			24	12	9,6	8,8	5,8	50/500
00515•	Green	√	-	-			28	18	9,6	8,8	5,8	50/500
00715	Ivory	-	√	-			28	18	9,6	8,8	5,8	50/500
00615	Blue	-	-	√			28	18	9,6	8,8	5,8	50/500
006163•	Yellow	√	-	√	25	(4)	26	12	12	11,2	7,3	100/100
00516	Brown	√	-	-			30	16	12	11,2	7,3	100/100
00716	Black	-	√	-			30	16	12	11,2	7,3	100/100
00616	Yellow	-	-	√			30	16	12	11,2	7,3	100/100
005161	Brown	√	-	-			30	18	12	11,2	7,3	100/100
007161	Black	-	√	-			30	18	12	11,2	7,3	100/100
006161	Yellow	-	-	√			30	18	12	11,2	7,3	100/100
005162	Brown	√	-	-			36	22	12	11,2	7,3	100/100
007162	Black	-	√	-			36	22	12	11,2	7,3	100/100
006162	Yellow	-	-	√			36	22	12	11,2	7,3	100/100
006173•	Red	-	√	√	35	(2)	26	12	13,5	12,7	8,3	100/100
00517	Beige	√	-	-			30	16	13,5	12,7	8,3	100/500
00617	Red	-	√	√			30	16	13,5	12,7	8,3	100/100
005171	Beige	√	-	-			30	18	13,5	12,7	8,3	100/500
006171	Red	-	√	√			30	18	13,5	12,7	8,3	100/100
005172•	Beige	√	-	-			39	25	13,5	12,7	8,3	100/500
006172	Red	-	√	√			39	25	13,5	12,7	8,3	100/100
00518	Olive	√	-	-	50	(1/0)	36	20	16	15	10,3	50/50
00618	Blue	-	√	√			36	20	16	15	10,3	50/50
005181	Olive	√	-	-			40	25	16	15	10,3	50/50
006181	Blue	-	√	√			40	25	16	15	10,3	50/50
00519•	Yellow	√	-	-	70	(2/0)	37	21	17,2	16	13,5	50/50
00520•	Red	√	-	-	95	(3/0)	44	25	19,2	18	14,7	50/50
00521•	Blue	√	-	-	120	(4/0)	48	27	21,4	20	16,7	50/50
00522•	Yellow	√	-	-	150	(300)	58	32	25	23	19,5	25/25

file n° E 506333 • No UL

HALOGEN FREE

END-SLEEVES FOR COPPER CONDUCTORS · INSULATED · SINGLE CABLE · IN A STRAP





TERMINAL MATERIAL: tinned copper

INSULATION MATERIAL: polypropylene (PP) without flame retardant

OPERATING TEMPERATURE: 105°C max

ACCORDING TO STD.: DIN 46228-4 (tubular ferrules with plastic sleeve), UL486F (bare and covered ferrules)

EQUIPMENT: use tool BM 5375

Code	Color	Standard color 1	Standard color 2	Color DIN 46228/4	Section (mm²)	Section (AWG)	L1 (mm)	L2 (mm)	D1 (mm)	D2 (mm)	D3 (mm)	
90501•	Orange	√	-	-	0,5	(20)	14	8	3,1	2,6	1	500/2500
90601	White	-	√	√			14	8	3,1	2,6	1	500/2500
90502•	White	√	-	-	0,75	(18)	14	8	3,3	2,8	1,2	500/2500
90702•	LIght blue	-	√	-			14	8	3,3	2,8	1,2	500/2500
90602	Grey	-	-	√			14	8	3,3	2,8	1,2	500/2500
90503•	Yellow	√	-	-	1	(18)	14	8	3,5	3	1,4	500/2500
90603	Red	-	√	√			14	8	3,5	3	1,4	500/2500
90504•	Red	√	-	-	1,5	(16)	14	8	4	3,5	1,7	500/2500
90604	Black	-	√	√			14	8	4	3,5	1,7	500/2500
90506	Blue	√	-	√	2,5	(14)	14	8	4,7	4,2	2,2	500/2500
90706•	Grey	-	√	-			14	8	4,7	4,2	2,2	500/2500

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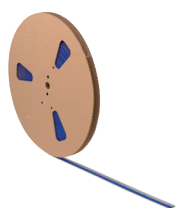
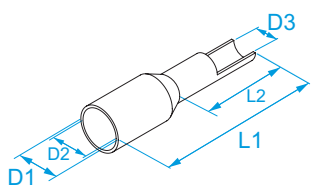
END-SLEEVES FOR COPPER CONDUCTORS · INSULATED · SINGLE CABLE · IN A REEL





TERMINAL MATERIAL: tinned copper

INSULATION MATERIAL: polypropylene (PP) without flame retardant

OPERATING TEMPERATURE: 105°C max

ACCORDING TO STD.: DIN 46228-4 (tubular ferrules with plastic sleeve), UL486F (bare and covered ferrules)

REEL: Outer Diameter: 32 cm
Hole Diameter: 2,3 cm
Thickness: 2 cm

Code	Color	Standard color 1	Standard color 2	Color DIN 46228/4	Section (mm²)	Section (AWG)	L1 (mm)	L2 (mm)	D1 (mm)	D2 (mm)	D3 (mm)	
91501•	Orange	√	-	-	0,5	(20)	14	8	3,1	2,6	1	4000/4000
91601	White	-	√	√			14	8	3,1	2,6	1	4000/4000
91502•	White	√	-	-	0,75	(18)	14	8	3,3	2,8	1,2	4000/4000
91702•	Blue	-	√	-			14	8	3,3	2,8	1,2	4000/4000
91602	Grey	-	-	√			14	8	3,3	2,8	1,2	4000/4000
91503•	Yellow	√	-	-	1	(18)	14	8	3,5	3	1,4	3500/3500
91603	Red	-	√	√			14	8	3,5	3	1,4	3500/3500
91504•	Red	√	-	-	1,5	(16)	14	8	4	3,5	1,7	3000/3000
91604	Black	-	√	√			14	8	4	3,5	1,7	3000/3000
91506	Blue	√	-	√	2,5	(14)	14	8	4,7	4,2	2,2	2500/2500
91706•	Grey	-	√	-			14	8	4,7	4,2	2,2	2500/2500

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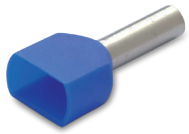
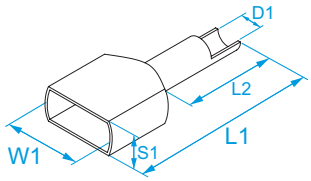
END-SLEEVES FOR COPPER CONDUCTORS · INSULATED · DOUBLE CABLE





TERMINAL MATERIAL: tinned copper

INSULATION MATERIAL: polypropylene (PP) without flame retardant

OPERATING TEMPERATURE: 105°C max

ACCORDING TO STD.: DIN 46228-4 (tubular ferrules with plastic sleeve), UL486F (bare and covered ferrules), CSA C22.2 No.291-14 (bare and covered ferrules)

Code	Color	Standard color 1	Standard color 2	Color DIN 46228/4	Section (mm²)	Section (AWG/kcmil)	W1 (mm)	L1 (mm)	L2 (mm)	D1 (mm)	S1 (mm)	
00551	Orange	√	-	-	2 X 0,5	(20)	4,7	15	8	1,4	2,5	200/2000
00651	White	-	√	√			4,7	15	8	1,4	2,5	200/2000
00552	White	√	-	-	2 X 0,75	(18)	5	15	8	1,7	2,8	200/2000
00753	Blue	-	√	-			5	15	8	1,7	2,8	200/2000
00652	Grey	-	-	√			5	15	8	1,7	2,8	200/2000
00553	White	√	-	-			5	17	10	1,7	2,8	200/2000
00653	Grey	-	-	√			5	17	10	1,7	2,8	200/2000
006531	Grey	√	-	-			5	21	14	1,7	2,8	200/2000
007533•	LIght blue	-	√	-			5	21	14	1,7	2,8	200/2000
005531•	White	-	-	√			5	21	14	1,7	2,8	200/2000
00554	Yellow	√	-	-	2 X 1	(18)	5,4	15	8	1,95	3,4	200/2000
00654	Red	-	√	√			5,4	15	8	1,95	3,4	200/2000
00555	Yellow	√	-	-			5,4	17	10	1,95	3,4	200/2000
00655	Red	-	√	√			5,4	17	10	1,95	3,4	200/2000
005551	Yellow	√	-	-			5,4	19	12	1,95	3,4	200/2000
006551	Red	-	√	√			5,4	19	12	1,95	3,4	200/2000
005552	Yellow	√	-	-			5,4	25	18	1,95	3,4	200/2000
006552	Red	-	√	√			5,4	25	18	1,95	3,4	200/2000
00556	Red	√	-	-	2 X 1,5	(16)	6,6	16	8	2,2	3,6	200/2000
00656	Black	-	√	√			6,6	16	8	2,2	3,6	200/2000
00557	Red	√	-	-			6,6	20	12	2,2	3,6	200/2000
00657	Black	-	√	√			6,6	20	12	2,2	3,6	200/2000
005571	Red	√	-	-			6,6	26	18	2,2	3,6	200/2000
006571	Black	-	√	√			6,6	26	18	2,2	3,6	200/2000
00558	Blue	√	-	√	2 X 2,5	(14)	7,8	18,5	10	2,8	4,2	100/1000
00758	Grey	-	√	-			7,8	18,5	10	2,8	4,2	100/1000
00559	Blue	√	-	√			7,8	21,5	13	2,8	4,2	100/1000
00560	Grey	√	-	√	2 X 4	(12)	8,8	23	12	3,7	4,9	100/1000
00760	Orange	-	√	-			8,8	23	12	3,7	4,9	100/1000
00561•	Black	√	-	-	2 X 6	(10)	10	26	14	4,8	6,9	50/500
00761	Green	-	√	-			10	26	14	4,8	6,9	50/500
00661	Yellow	-	-	√			10	26	14	4,8	6,9	50/500
00562	Ivory	√	-	-	2 X 10	(8)	13	26	14	6,4	7,2	100/1000
00762	Brown	-	√	-			13	26	14	6,4	7,2	100/1000
00662	Red	-	-	√			13	26	14	6,4	7,2	100/1000
00563	Green	√	-	-	2 X 16	(6)	18,4	30	14	8,2	9,6	50/500
00763	Ivory	-	√	-			18,4	30	14	8,2	9,6	50/500
00663	Blue	-	-	√			18,4	30	14	8,2	9,6	50/500

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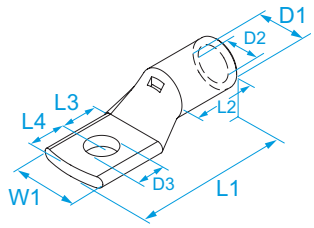
TERMINAL LUGS FOR COPPER CONDUCTORS · UNINSULATED



TERMINAL MATERIAL: tinned copper
OPERATING TEMPERATURE: from -50 °C to +150 °C
CONDUCTOR CLASS: Class 1 and 2 (rigid) and Class 5 (flexible) according to EN 60228
ACCORDING TO STD.: UL 486 A-B
INSPECTION HOLE: yes

Code	Rigid section (mm²)	Rigid section (AWG/kcmil)	Flexible section (mm²)	Flexible section (AWG/kcmil)	For screw Ø screw (mm)	For screw Stud size	Indent	W1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	D1 (mm)	D2 (mm)	D3 (mm)	
011071	1.5	(16)	1.5	(16)	3	#4	-	8	16	5	5	4	3,5	1,9	3,2	100/1000
011191					4	#8	-	8	16	5	5	4	3,5	1,9	4,2	100/1000
011251					5	#10	-	8	16	5	5	4	3,5	1,9	5,2	100/1000
011311					6	#12	-	10	18	5	6	5	3,5	1,9	6,3	100/1000
012191	2.5	(14)	2.5	(14)	4	#8	-	8	18	7	5	4	4	2,4	4,2	100/1000
012251					5	#10	-	10	20	7	6	5	4	2,4	5,2	100/1000
012311					6	#12	-	10	20	7	6	5	4	2,4	6,3	100/1000
013190	4	(12)	4	(12)	4	#8	-	10	20	7	6	5	5,1	3,1	4,2	100/1000
013250					5	#10	-	10	20	7	6	5	5,1	3,1	5,2	100/1000
013310					6	#12	-	10	20	7	6	5	5,1	3,1	6,3	100/1000
013370					8	5/16"	-	11	24	7	8,5	6,5	5,1	3,1	8,2	100/1000
013191	6	(10)	6	(10)	4	#8	-	10	23	9	6	5	5,5	3,5	4,2	100/1000
013251					5	#10	-	10	23	9	6	5	5,5	3,5	5,2	100/1000
013311					6	#12	-	10	23	9	6	5	5,5	3,5	6,3	100/1000
013371					8	5/16"	-	12	27	9	9	6	5,5	3,5	8,2	100/1000
013431					10	3/8"	-	15	32	9	11	9	5,5	3,5	10,2	100/1000
01419*	10	(8)	10	(8)	5	#10	7	9,8	26,5	9,5	6,5	5	7	5	5,3	100/100
01431*					6	#12	7	11,1	27,5	9,5	7	6	7	5	6,4	100/100
01437*					8	5/16"	7	14,9	31,5	9,5	9	8	7	5	8,4	100/100
01443*					10	3/8"	7	17,2	35,5	9,5	11	10	7	5	10,5	100/100
01449*					12	1/2"	7	15,5	34,1	9,5	9,3	9,3	7	5	12,2	100/100
01525	16	(6)	16	(6)	5	#10	7,5	11,5	30,5	11	8,7	6,3	8	6	5,3	100/100
01531					6	#12	7,5	11,5	29,3	11	7	6	8	6	6,4	100/100
01537					8	5/16"	7,5	14,7	33,5	11	9	8	8	6	8,4	100/100
01543					10	3/8"	7,5	17,5	37,4	11	11	10	8	6	10,5	100/100
01549					12	1/2"	7,5	19,5	42,5	11	14	12	8	6	13,2	100/100
01625	25	(4)	25	(4)	5	#10	9	14	35,5	13,5	10	7	9,5	7	5,2	100/100
01631					6	#12	9	13,9	32,8	12,5	7	6	9,5	7	6,4	100/100
01637					8	5/16"	9	15	37	12,5	9	8	9,5	7	8,4	100/100
01643					10	3/8"	9	18	41	12,5	11	10	9,5	7	10,5	100/100
01649					12	1/2"	9	21,2	46	12,5	14	12	9,5	7	13,2	100/100
01731	35	(2)	35	(2)	6	#12	11	16,4	34,5	13	7	6	11,5	8,5	6,4	100/100
01737					8	5/16"	11	16,8	38,3	13	9	8	11,5	8,5	8,4	100/100
01743					10	3/8"	11	18,6	42,5	13	11	10	11,5	8,5	10,5	100/100
01749					12	1/2"	11	20,2	47,5	13	14	12	11,5	8,5	13,2	100/100
01831	50	(1/0)	50	(1/0)	6	#12	12	18,7	45,5	18	9	9	13	10	6,4	100/100
01837					8	5/16"	12	18,7	47,5	18	10	10	13	10	8,4	100/100
01843					10	3/8"	12	18,7	49,5	18	11	11	13	10	10,5	100/100
01849					12	1/2"	12	21	53	18	15,3	12	13	10	12,5	100/100
01855					14	9/16"	12	22	53	17	15,3	12	13	10	14,5	100/100
01931	70	(2/0)	70	(2/0)	6	#12	14	21,8	51	20,5	11	10	15	12	6,5	100/100
01937					8	5/16"	14	21,8	51	20,5	11	10	15	12	8,5	100/100
01943					10	3/8"	14	21,8	57	20,5	14,5	11,2	15	12	10,5	100/100
01949					12	1/2"	14	22	57	20,5	13	13	15	12	12,5	100/100
01955					14	9/16"	14	22	57	20,5	14	11,3	15	12	14,5	100/100
01961					16	5/8"	14	22	57	20,5	14	11,3	15	12	16,5	100/100
03137	95	(3/0)	95	(3/0)	8	5/16"	16	25	54,5	23,5	9	8	17,5	13,8	8,5	50/50
03143					10	3/8"	16	25	60	23	12,5	12,5	17,5	13,8	10,5	50/50
03149					12	1/2"	16	25	62	23	14	13	17,5	13,8	12,5	50/50

Code	Rigid section (mm²)	Rigid section (AWG/kcmil)	Flexible section (mm²)	Flexible section (AWG/kcmil)	For screw Ø screw (mm)	For screw Stud size	Indent	W1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	D1 (mm)	D2 (mm)	D3 (mm)	
03155	95	(3/0)	95	(3/0)	14	9/16"	16	25	65	23	17	13	17,5	13,8	14,5	50/50
03161					16	5/8"	16	25	65	23	17	13,5	17,5	13,8	16,5	50/50
03237	120	(4/0)	120	(4/0)	8	5/16"	18	28	64	25	14	14	19,5	15,5	8,5	50/50
03243					10	3/8"	18	28	64	25	14	14	19,5	15,5	10,5	50/50
03249					12	1/2"	18	28	64	25	14	14	19,5	15,5	12,5	50/50
03255					14	9/16"	18	28	67	25	15	16	19,5	15,5	14,5	50/50
03261					16	5/8"	18	28	70	25	15	16	19,5	15,5	16,5	50/50
03337	150	(300)	150	(300)	8	5/16"	20	31	64	28	13	11	21	17	8,4	50/50
03343					10	3/8"	20	31	64	28	13	11	21	17	10,4	50/50
03349					12	1/2"	20	31	70	28	14	13	21	17	12,5	50/50
03355					14	9/16"	20	31	70,5	28	15,5	15	21	17	14,5	50/50
03361					16	5/8"	20	31	73	30	15	16	21	17	16,5	50/50
03367					20	3/4"	20	31	73	30	22	16	21	17	21	50/50
03443	185	(400)	185	(400)	10	3/8"	22	35	75	30	16	14	24	19	10,5	50/50
03449					12	1/2"	22	35	75	30	16	14	24	19	13	50/50
03455					14	9/16"	22	35	79	30	18	16	24	19	15	50/50
03461					16	5/8"	22	35	81	30	19	17	24	19	17	50/50
03467					20	3/4"	22	35	87	30	22	20	24	19	21	50/50
03543	240	(500)	240	(500)	10	3/8"	25	39,5	81	35	16	14	27	21,5	10,5	50/50
03549					12	1/2"	25	39,5	81	35	16	14	27	21,5	13	50/50
03555					14	9/16"	25	39,5	85	35	18	16	27	21,5	15	50/50
03561					16	5/8"	25	39,5	87	35	19	17	27	21,5	17	50/50
03567					20	3/4"	25	39,5	93	35	22	20	27	21,5	21	50/50
03649	300	(600)	300	(600)	12	1/2"	28	44	101	38	22	20	30	24	13	25/25
03655					14	9/16"	28	44	101	38	22	20	30	24	15	25/25
03661					16	5/8"	28	44	101	38	22	20	30	24	17	25/25
03667					20	3/4"	28	44	101	38	22	20	30	24	21	25/25
03669					24	15/16"	28	44	101	38	22	20	30	24	25	25/25
03749•	400	(800)	300	(600)	12	1/2"	35	50	108	40	22	20	35	27	13	10/10
03755•					14	9/16"	35	50	108	40	22	20	35	27	15	10/10
03761•					16	5/8"	35	50	108	40	22	20	35	27	17	10/10
03767•					20	3/4"	35	50	108	40	22	20	35	27	21	10/10
03769•					24	15/16"	35	50	108	40	22	20	35	27	25	10/10
03861•	500	(1000)	400	(800)	16	5/8"	38	55	124	51	25	23	38	30	17	5/5
03867•					20	3/4"	38	55	124	51	25	23	38	30	21	5/5
03961•	630	(1250)	500	(1000)	16	5/8"	42	61	131	58	25	23	42	33,6	17	5/5
03967•					20	3/4"	42	61	131	58	25	23	42	33,6	21	5/10

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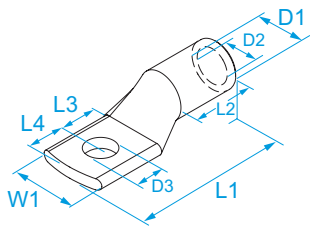
TERMINAL LUGS FOR COPPER CONDUCTORS · UNINSULATED · WITHOUT INSPECTION HOLE



TERMINAL MATERIAL: tinned copper
OPERATING TEMPERATURE: from -50 °C to +150 °C
CONDUCTOR CLASS: Class 1 and 2 (rigid) and Class 5 (flexible) according to EN 60228
ACCORDING TO STD.: UL 486 A-B
INSPECTION HOLE: no

Code	Rigid section (mm²)	Rigid section (AWG/kcmil)	Flexible section (mm²)	Flexible section (AWG/kcmil)	For screw Ø screw (mm)	For screw Stud size	Indent	W1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	D1 (mm)	D2 (mm)	D3 (mm)	
014191					5	#10	7	9,8	26,5	9,5	6,5	5	7	5	5,3	100/100
014311					6	#12	7	11,1	27,5	9,5	7	6	7	5	6,4	100/100
014371	10	(8)	10	(8)	8	5/16"	7	14,9	31,5	9,5	9	8	7	5	8,4	100/100
014431					10	3/8"	7	17,2	35,5	9,5	11	10	7	5	10,5	100/100
014491					12	1/2"	7	15,5	34,1	9,5	9,3	9,3	7	5	12,2	100/100
015251					5	#10	7,5	11,5	30,5	11	8,7	6,3	8	6	5,3	100/100
015311					6	#12	7,5	11,5	29,3	11	7	6	8	6	6,4	100/100
015371	16	(6)	16	(6)	8	5/16"	7,5	14,7	33,5	11	9	8	8	6	8,4	100/100
015431					10	3/8"	7,5	17,5	37,4	11	11	10	8	6	10,5	100/100
015491					12	1/2"	7,5	19,5	42,5	11	14	12	8	6	13,2	100/100
016251					5	#10	9	14	35,5	13,5	10	7	9,5	7	5,2	100/100
016311					6	#12	9	13,9	32,8	12,5	7	6	9,5	7	6,4	100/100
016371	25	(4)	25	(4)	8	5/16"	9	15	37	12,5	9	8	9,5	7	8,4	100/100
016431					10	3/8"	9	18	41	12,5	11	10	9,5	7	10,5	100/100
016491					12	1/2"	9	21,2	46	12,5	14	12	9,5	7	13,2	100/100
017311					6	#12	11	16,4	34,5	13	7	6	11,5	8,5	6,4	100/100
017371	35	(2)	35	(2)	8	5/16"	11	16,8	38,3	13	9	8	11,5	8,5	8,4	100/100
017431					10	3/8"	11	18,6	42,5	13	11	10	11,5	8,5	10,5	100/100
017491					12	1/2"	11	20,2	47,5	13	14	12	11,5	8,5	13,2	100/100
018311					6	#12	12	18,7	45,5	18	9	9	13	10	6,4	100/100
018371					8	5/16"	12	18,7	47,5	18	10	10	13	10	8,4	100/100
018431	50	(1/0)	50	(1/0)	10	3/8"	12	18,7	49,5	18	11	11	13	10	10,5	100/100
018491					12	1/2"	12	21	53	18	15,3	12	13	10	12,5	100/100
018551					14	9/16"	12	22	53	17	15,3	12	13	10	14,5	100/100
019311					6	#12	14	21,8	51	20,5	11	10	15	12	6,5	100/100
019371					8	5/16"	14	21,8	51	20,5	11	10	15	12	8,5	100/100
019431	70	(2/0)	70	(2/0)	10	3/8"	14	21,8	57	20,5	14,5	11,2	15	12	10,5	100/100
019491					12	1/2"	14	22	57	20,5	13	13	15	12	12,5	100/100
019611					16	5/8"	14	22	57	20,5	14	11,3	15	12	16,5	100/100
031371					8	5/16"	16	25	54,5	23,5	9	8	17,5	13,8	8,5	50/50
031431					10	3/8"	16	25	60	23	12,5	12,5	17,5	13,8	10,5	50/50
031491	95	(3/0)	95	(3/0)	12	1/2"	16	25	62	23	14	13	17,5	13,8	12,5	50/50
031551					14	9/16"	16	25	65	23	17	13	17,5	13,8	14,5	50/50
031611					16	5/8"	16	25	65	23	17	13,5	17,5	13,8	16,5	50/50
032371					8	5/16"	18	28	64	25	14	14	19,5	15,5	8,5	50/50
032431					10	3/8"	18	28	64	25	14	14	19,5	15,5	10,5	50/50
032491	120	(4/0)	120	(4/0)	12	1/2"	18	28	64	25	14	14	19,5	15,5	12,5	50/50
032551					14	9/16"	18	28	67	25	15	16	19,5	15,5	14,5	50/50
032611					16	5/8"	18	28	70	25	15	16	19,5	15,5	16,5	50/50
033371					8	5/16"	20	31	64	28	13	11	21	17	8,4	50/50
033431					10	3/8"	20	31	64	28	13	11	21	17	10,4	50/50
033491	150	(300)	150	(300)	12	1/2"	20	31	70	28	14	13	21	17	12,5	50/50
033551					14	9/16"	20	31	70,5	28	15,5	15	21	17	14,5	50/50
033611					16	5/8"	20	31	73	30	15	16	21	17	16,5	50/50
033671					20	3/4"	20	13	73	30	22	16	21	17	21	50/50
034431					10	3/8"	22	35	75	30	16	14	24	19	10,5	50/50
034491	185	(400)	185	(400)	12	1/2"	22	35	75	30	16	14	24	19	13	50/50
034551					14	9/16"	22	35	79	30	18	16	24	19	15	50/50
034611					16	5/8"	22	35	81	30	19	17	24	19	17	25/25

Code	Rigid section (mm^2)	Rigid section (AWG/kcmil)	Flexible section (mm^2)	Flexible section (AWG/kcmil)	For screw Ø screw (mm)	For screw Stud size	Indent	W1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	D1 (mm)	D2 (mm)	D3 (mm)	
034671	185	(400)	185	(400)	20	3/4"	22	35	87	30	20	20	24	19	21	50/50
035491	240	(500)	240	(500)	12	1/2"	25	39,5	81	35	16	14	27	21,5	13	50/50
035551					14	9/16"	25	39,5	85	35	18	16	27	21,5	15	50/50
035611					16	5/8"	25	39,5	87	35	19	17	27	21,5	17	25/25
035671					20	3/4"	25	39,5	93	35	22	20	27	21,5	21	50/50
036491	300	(600)	240	(500)	12	1/2"	28	44	101	38	22	20	30	24	13	10/10
036551					14	9/16"	28	44	101	38	22	20	30	24	15	10/10
036611					16	5/8"	28	44	101	38	22	20	30	24	17	10/10
036671					20	3/4"	28	44	101	38	22	20	30	24	21	10/10
036691					24	15/16"	28	44	101	38	22	20	30	24	25	10/10
037491•	400	(800)	300	(600)	12	1/2"	35	50	108	40	22	20	35	27	13	10/10
037551•					14	9/16"	35	50	108	40	22	20	35	27	15	10/10
037611•					16	5/8"	35	50	108	40	22	20	35	27	17	10/10
037671•					20	3/4"	35	50	108	40	22	20	35	27	21	10/10
037691•					24	15/16"	35	50	108	40	22	20	35	27	25	10/10
038611•	500	(1000)	400	(800)	16	5/8"	38	55	124	51	25	23	38	30	17	1/1
038671•					20	3/4"	38	55	124	51	25	23	38	30	21	1/1
039611•	630	(1250)	500	(1000)	16	5/8"	42	61	131	58	25	23	42	33,6	17	1/1
039671•					20	3/4"	42	61	131	58	25	23	42	33,6	21	1/1

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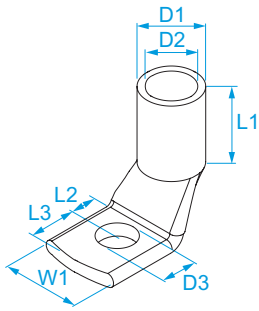
TERMINAL LUGS FOR COPPER CONDUCTORS · UNINSULATED · BENT 90°



TERMINAL MATERIAL: tinned copper
OPERATING TEMPERATURE: from -50 °C to +150 °C
CONDUCTOR CLASS: Class 1 and 2 (rigid) and Class 5 (flexible) according to EN 60228
ACCORDING TO STD.: UL 486 A-B
INSPECTION HOLE: yes
BENT: 90 °

Code	Section (mm²)	Section (AWG/kcmil)	For screw Ø screw (mm)	For screw Stud size	Indent	W1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	D1 (mm)	D2 (mm)	D3 (mm)	
014199	10	(8)	5	#10	7	9,8	9,5	6,5	5	7	5	5,3	100/100
014319			6	#12	7	11,1	9,5	7	6	7	5	6,4	100/100
014379			8	5/16"	7	14,9	9,5	9	8	7	5	8,4	100/100
014439			10	3/8"	7	17,2	9,5	11	10	7	5	10,5	100/100
014499			12	1/2"	7	15,5	9,5	9,3	9,3	7	5	12,2	100/100
015259	16	(6)	5	#10	7,5	11,5	11	8,7	6,3	8	6	5,3	100/100
015319			6	#12	7,5	11,5	11	7	6	8	6	6,4	100/100
015379			8	5/16"	7,5	14,7	11	9	8	8	6	8,4	100/100
015439			10	3/8"	7,5	17,5	11	11	10	8	6	10,5	100/100
015499			12	1/2"	7,5	19,5	11	14	12	8	6	13,2	100/100
016259	25	(4)	5	#10	9	14	13,5	10	7	9,5	7	5,2	100/100
016319			6	#12	9	13,9	12,5	7	6	9,5	7	6,4	100/100
016379			8	5/16"	9	15	12,5	9	8	9,5	7	8,4	100/100
016439			10	3/8"	9	18	12,5	11	10	9,5	7	10,5	100/100
016499			12	1/2"	9	21,2	12,5	14	12	9,5	7	13,2	100/100
017319	35	(2)	6	#12	11	16,4	13	7	6	11,5	8,5	6,4	100/100
017379			8	5/16"	11	16,8	13	9	8	11,5	8,5	8,4	100/100
017439			10	3/8"	11	18,6	13	11	10	11,5	8,5	10,5	100/100
017499			12	1/2"	11	20,2	13	14	12	11,5	8,5	13,2	100/100
018319	50	(1/0)	6	#12	12	18,7	18	8	9	13	10	6,4	100/100
018379			8	5/16"	12	18,7	18	9	10	13	10	8,4	100/100
018439			10	3/8"	12	18,7	18	10	11	13	10	10,5	100/100
018499			12	1/2"	12	21	18	14	12	13	10	12,5	100/100
018559			14	9/16"	12	22	17	14	12	13	10	14,5	100/100
019319	70	(2/0)	6	#12	14	21,8	20,5	9	10	15	12	6,5	100/100
019379			8	5/16"	14	21,8	20,5	9	10	15	12	8,5	100/100
019439			10	3/8"	14	21,8	20,5	11,5	11,2	15	12	10,5	100/100
019499			12	1/2"	14	22	20,5	11,5	13	15	12	12,5	100/100
019559			14	9/16"	14	22	20,5	12,5	11,3	15	12	14,5	100/100
019619			16	5/8"	14	22	20,5	12,5	11,3	15	12	16,5	100/100
031379	95	(3/0)	8	5/16"	16	25	23	10	12,5	17,5	13,8	8,5	50/50
031439			10	3/8"	16	25	23	10	12,5	17,5	13,8	10,5	50/50
031499			12	1/2"	16	25	23	11,5	13	17,5	13,8	12,5	50/50
031559			14	9/16"	16	25	23	15	13	17,5	13,8	14,5	50/50
031619			16	5/8"	16	25	23	15	13,5	17,5	13,8	16,5	50/50
032379	120	(4/0)	8	5/16"	18	28	25	11,5	14	19,5	15,5	8,5	50/50
032439			10	3/8"	18	28	25	11,5	14	19,5	15,5	10,5	50/50
032499			12	1/2"	18	28	25	11,5	14	19,5	15,5	12,5	50/50
032559			14	9/16"	18	28	25	12,5	16	19,5	15,5	14,5	50/50
032619			16	5/8"	18	28	25	12,5	16	19,5	15,5	16,5	50/50
033379	150	(300)	8	5/16"	20	31	28	10	11	21	17	8,4	50/50
033439			10	3/8"	20	31	28	10	11	21	17	10,4	50/50
033499			12	1/2"	20	31	28	11	13	21	17	12,5	50/50
033559			14	9/16"	20	31	28	12,5	15	21	17	14,5	50/50
033619			16	5/8"	20	31	30	12	16	21	17	16,5	50/50
033679			20	3/4"	20	31	30	20	16	21	17	21	50/50
034439	185	(400)	10	3/8"	22	35	30	12,5	14	24	19	10,5	25/25
034499			12	1/2"	22	35	30	12,5	14	24	19	13	25/25
034559			14	9/16"	22	35	30	15	16	24	19	15	25/25

Code	Section (mm²)	Section (AWG/kcmil)	For screw Ø screw (mm)	For screw Stud size	Indent	W1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	D1 (mm)	D2 (mm)	D3 (mm)	
034619	185	(400)	16	5/8"	22	35	30	16	17	24	19	17	50/50
034679			20	3/4"	22	35	30	19	20	24	19	21	50/50
035499	240	(500)	12	1/2"	25	39,5	35	13	14	27	21,5	13	25/25
035559			14	9/16"	25	39,5	35	15,5	16	27	21,5	15	50/50
035619			16	5/8"	25	39,5	35	16,5	17	27	21,5	17	50/50
035679			20	3/4"	25	39,5	35	20,5	20	27	21,5	21	25/25

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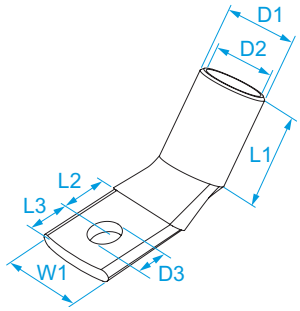
TERMINAL LUGS FOR COPPER CONDUCTORS · UNINSULATED · BENT 45°



TERMINAL MATERIAL: tinned copper
OPERATING TEMPERATURE: from -50 °C to +150 °C
CONDUCTOR CLASS: Class 1 and 2 (rigid) and Class 5 (flexible) according to EN 60228
ACCORDING TO STD.: UL 486 A-B
INSPECTION HOLE: yes
BENT: 45 °

Code	Section (mm²)	Section (AWG/kcmil)	For screw Ø screw (mm)	For screw Stud size	Indent	W1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	D1 (mm)	D2 (mm)	D3 (mm)	
0141945	10	(8)	5	#10	7	9,8	9,5	6,5	5	7	5	5,3	100/100
0143145			6	#12	7	11,1	9,5	7	6	7	5	6,4	100/100
0143745			8	5/16"	7	14,9	9,5	9	8	7	5	8,4	100/100
0144345			10	3/8"	7	17,2	9,5	11	10	7	5	10,5	100/100
0144945			12	1/2"	7	15,5	9,5	9,3	9,3	7	5	12,2	100/100
0152545	16	(6)	5	#10	7,5	11,5	11	8,7	6,3	8	6	5,3	100/100
0153145			6	#12	7,5	11,5	11	7	6	8	6	6,4	100/100
0153745			8	5/16"	7,5	14,7	11	9	8	8	6	8,4	100/100
0154345			10	3/8"	7,5	17,5	11	11	10	8	6	10,5	100/100
0154945			12	1/2"	7,5	19,5	11	14	12	8	6	13,2	100/100
0162545	25	(4)	5	#10	9	14	13,5	10	7	9,5	7	5,2	100/100
0163145			6	#12	9	13,9	12,5	7	6	9,5	7	6,4	100/100
0163745			8	5/16"	9	15	12,5	9	8	9,5	7	8,4	100/100
0164345			10	3/8"	9	18	12,5	11	10	9,5	7	10,5	100/100
0164945			12	1/2"	9	21,2	12,5	14	12	9,5	7	13,2	100/100
0173145	35	(2)	6	#12	11	16,4	13	7	6	11,5	8,5	6,4	100/100
0173745			8	5/16"	11	16,8	13	9	8	11,5	8,5	8,4	100/100
0174345			10	3/8"	11	18,6	13	11	10	11,5	8,5	10,5	100/100
0174945			12	1/2"	11	20,2	13	14	12	11,5	8,5	13,2	100/100
0183145	50	(1/0)	6	#12	12	18,7	18	8	9	13	10	6,4	100/100
0183745			8	5/16"	12	18,7	18	9	10	13	10	8,4	100/100
0184345			10	3/8"	12	18,7	18	10	11	13	10	10,5	100/100
0184945			12	1/2"	12	21	18	14	12	13	10	12,5	100/100
0185545			14	9/16"	12	22	17	14	12	13	10	14,5	100/100
0193145	70	(2/0)	6	#12	14	21,8	20,5	9	10	15	12	6,5	100/100
0193745			8	5/16"	14	21,8	20,5	9	10	15	12	8,5	100/100
0194345			10	3/8"	14	21,8	20,5	11,5	11,2	15	12	10,5	100/100
0194945			12	1/2"	14	22	20,5	11,5	13	15	12	12,5	100/100
0195545			14	9/16"	14	22	20,5	12,5	11,3	15	12	14,5	100/100
0196145			16	5/8"	14	22	20,5	12,5	11,3	15	12	16,5	100/100
0313745	95	(3/0)	8	5/16"	16	25	23	10	12,5	17,5	13,8	8,5	50/50
0314345			10	3/8"	16	25	23	10	12,5	17,5	13,8	10,5	25/25
0314945			12	1/2"	16	25	23	11,5	13	17,5	13,8	12,5	50/50
0315545			14	9/16"	16	25	23	15	13	17,5	13,8	14,5	50/50
0316145			16	5/8"	16	25	23	15	13,5	17,5	13,8	16,5	50/50
0323745	120	(4/0)	8	5/16"	18	28	25	11,5	14	19,5	15,5	8,5	50/50
0324345			10	3/8"	18	28	25	11,5	14	19,5	15,5	10,5	50/50
0324945			12	1/2"	18	28	25	11,5	14	19,5	15,5	12,5	50/50
0325545			14	9/16"	18	28	25	12,5	16	19,5	15,5	14,5	50/50
0326145			16	5/8"	18	28	25	12,5	16	19,5	15,5	16,5	50/50
0333745	150	(300)	8	5/16"	20	31	28	10	11	21	17	8,4	50/50
0334345			10	3/8"	20	31	28	10	11	21	17	10,4	50/50
0334945			12	1/2"	20	31	28	11	13	21	17	12,5	50/50
0335545			14	9/16"	20	31	28	12,5	15	21	17	14,5	50/50
0336145			16	5/8"	20	31	30	12	16	21	17	16,5	50/50
0336745			20	3/4"	20	31	30	20	16	21	17	21	50/50
0344345	185	(400)	10	3/8"	22	35	30	12,5	14	24	19	10,5	50/50
0344945			12	1/2"	22	35	30	12,5	14	24	19	13	50/50
0345545			14	9/16"	22	35	30	15	16	24	19	15	50/50

Code	Section (mm²)	Section (AWG/kcmil)	For screw Ø screw (mm)	For screw Stud size	Indent	W1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	D1 (mm)	D2 (mm)	D3 (mm)	
0346145	185	(400)	16	5/8"	22	35	30	16	17	24	19	17	25/25
0346745			20	3/4"	22	35	30	19	20	24	19	21	50/50
0354945	240	(500)	12	1/2"	25	39,5	35	13	14	27	21,5	13	25/25
0355545			14	9/16"	25	39,5	35	15,5	16	27	21,5	15	25/25
0356145			16	5/8"	25	39,5	35	16,5	17	27	21,5	17	25/25
0356745			20	3/4"	25	39,5	35	20,5	20	27	21,5	21	50/50

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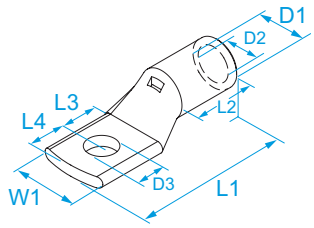
TERMINAL LUGS FOR COPPER CONDUCTORS · UNINSULATED · CLASS 6



TERMINAL MATERIAL: tinned copper

OPERATING TEMPERATURE: from -50 °C to +150 °C

CONDUCTOR CLASS: Class 6 according to EN 60228

APPLICATIONS: crimping of very flexible conductors designed to withstand repeated twists and bendings (eg robotic systems, welding machines, etc).

ACCORDING TO STD.: UL 486 A-B

INSPECTION HOLE: yes

ASSEMBLING: double crimping for sections greater than and equal to 70 mmq (AWG 2/0)

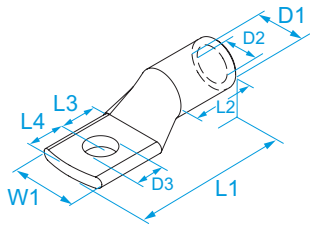
Code	Rigid section (mm²)	Rigid section (AWG/kcmil)	Flexible section (mm²)	Flexible section (AWG/kcmil)	For screw Ø screw (mm)	For screw Stud size	Indent	W1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	D1 (mm)	D2 (mm)	D3 (mm)	
01419*					5	#10	7	9,8	26,5	9,5	6,5	5	7	5	5,3	100/100
01431*					6	#12	7	11,1	27,5	9,5	7	6	7	5	6,4	100/100
01437*	10	(8)	10	(8)	8	5/16"	7	14,9	31,5	9,5	9	8	7	5	8,4	100/100
01443*					10	3/8"	7	17,2	35,5	9,5	11	10	7	5	10,5	100/100
01449*					12	1/2"	7	15,5	34,1	9,5	9,3	9,3	7	5	12,2	100/100
01525					5	#10	7,5	11,5	30,5	11	8,7	6,3	8	6	5,3	100/100
01531					6	#12	7,5	11,5	29,3	11	7	6	8	6	6,4	100/100
01537	16	(6)	16	(6)	8	5/16"	7,5	14,7	33,5	11	9	8	8	6	8,4	100/100
01543					10	3/8"	7,5	17,5	37,4	11	11	10	8	6	10,5	100/100
01549					12	1/2"	7,5	19,5	42,5	11	14	12	8	6	13,2	100/100
01625					5	#10	9	14	35,5	13,5	10	7	9,5	7	5,2	100/100
01631					6	#12	9	13,9	32,8	12,5	7	6	9,5	7	6,4	100/100
01637	25	(4)	25	(4)	8	5/16"	9	15	37	12,5	9	8	9,5	7	8,4	100/100
01643					10	3/8"	9	18	41	12,5	11	10	9,5	7	10,5	100/100
01649					12	1/2"	9	21,2	46	12,5	14	12	9,5	7	13,2	100/100
017314					6	#12	11	17	37	15	9,5	6	11,7	9,3	6,4	25/25
017374	35	(2)	35	(2)	8	5/16"	11	17	41,5	15	10,5	10	11,7	9,3	8,5	25/25
017434					10	3/8"	11	17	45	15	12	9,5	11,7	9,3	10,5	25/25
017494					12	1/2"	11	20	46	15	14	11,5	11,7	9,3	13	25/25
018314					6	#12	13	20,3	47,5	18	11	10	14	11	6,5	25/25
018374	50	(1/0)	50	(1/0)	8	5/16"	13	20,3	47,5	18	11	10	14	11	8,5	25/25
018434					10	3/8"	13	20,5	50	18	14,5	9,3	14	11	10,5	25/25
018494					12	1/2"	13	24	50	18	15	12	14	11	12,5	25/25
019314					6	#12	14	23,5	51	20,5	11	10	16	13	6,5	25/25
019374					8	5/16"	14	23,5	51	20,5	11	10	16	13	8,5	25/25
019434	70	(2/0)	70	(2/0)	10	3/8"	14	23,5	57,5	20,5	14,5	11,2	16	13	10,5	25/25
019494					12	1/2"	14	23,5	57	20,5	13	13	16	13	12,5	25/25
019554					14	9/16"	14	23,5	57	20,5	14	11,3	16	13	14,5	25/25
019614					16	5/8"	14	23,5	57	20,5	14	11,3	16	13	16,5	25/25
031374					8	5/16"	18	27,5	60	23	12,5	12,5	18,8	15	8,5	25/50
031434					10	3/8"	18	27,5	60	23	12,5	12,5	18,8	15	10,5	25/25
031494	95	(3/0)	95	(3/0)	12	1/2"	18	27,5	62	23	14	13	18,8	15	12,5	25/25
031554					14	9/16"	18	25	65	23	17	13	18,8	15	14,5	25/25
031614					16	5/8"	18	25	65	23	17	13,5	18,8	15	16,5	25/25
032374					8	5/16"	20	31	64	28	13	11	21	17	8,4	25/25
032434					10	3/8"	20	31	64	28	13	11	21	17	10,4	25/25
032494	120	(4/0)	120	(4/0)	12	1/2"	20	31	70	28	14	13	21	17	12,5	25/50
032554					14	9/16"	20	31	70,5	28	15,5	15	21	17	14,5	25/50
032614					16	5/8"	20	31	73	30	15	16	21	17	16,5	25/50
033374					8	5/16"	22	35	75	30	15	13	24	19	8,5	25/25
033434					10	3/8"	22	35	79	30	18	16	24	19	10,5	25/25
033494	150	(300)	150	(300)	12	1/2"	22	36	84	30	14	17	24	19	12,5	25/25
033554					14	9/16"	22	36	84	30	16	16	24	19	14,5	25/25
033614					16	5/8"	22	36	84	30	15	17	24	19	17	25/25
033674					20	3/4"	22	36	84	30	22	17	24	19	21	25/25

Code	Rigid section (mm²)	Rigid section (AWG/kcmil)	Flexible section (mm²)	Flexible section (AWG/kcmil)	For screw Ø screw (mm)	For screw Stud size	Indent	W1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	D1 (mm)	D2 (mm)	D3 (mm)	
034494	185	(400)	185	(400)	12	1/2"	25	39	81	35	16	14	27	21,5	13	25/25
034554					14	9/16"	25	39	85	35	18	16	27	21,5	15	25/25
034614					16	5/8"	25	39	87	35	19	17	27	21,5	17	25/25
034674					20	3/4"	25	39	90	35	22	20	27	21,5	21	25/25

c UL us LISTED file n° E 137735 UL LISTED * file n° E 137735

SUPERFLEX

TERMINAL LUGS FOR COPPER CONDUCTORS · UNINSULATED · SMALL PLATE



TERMINAL MATERIAL: tinned copper

OPERATING TEMPERATURE: from -50 °C to +150 °C

APPLICATIONS: the reduced width of the palm allows connection to equipment with lugs of dimensions not suitable for standard terminals.

ACCORDING TO STD.: UL 486 A-B

INSPECTION HOLE: no

Code	Section (mm²)	Section (AWG/kcmil)	For screw Ø screw (mm)	For screw Stud size	Indent	W1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	D1 (mm)	D2 (mm)	D3 (mm)	
017313	35	(2)	6	#12	11	15	39	16	8	7	11,5	8,5	6,5	25/25
018313	50	(1/0)	6	#12	12	15	41	18	8	7	13	10	6,5	25/25
018373			8	5/16"	12	18,7	49,5	18	11	11	13	10	8,4	25/25
018433			10	3/8"	12	18,7	49,5	18	11	11	13	10	10,5	25/25
019313	70	(2/0)	6	#12	14	11,6	46,5	20	8	7	15	12	6,5	25/25
019433			10	3/8"	14	19	52	21	13	10	15	12	10,5	25/25
031373	95	(3/0)	8	5/16"	16	19	54	24	12	8	17,5	13,8	8,5	25/25
031433			10	3/8"	16	19	58	22	13	10	17,5	13,8	10,5	25/25
032373	120	(4/0)	8	5/16"	18	19	61	22	12	9	19,5	15,5	8,5	25/25
032433			10	3/8"	18	19	61	22	12	9	19,5	15,5	10,5	25/25
033373	150	(300)	8	5/16"	20	19	70	30	17	9	21	17	8,4	25/25
033433			10	3/8"	20	19	70	30	17	9	21	17	10,5	25/25
034493	185	(400)	12	1/2"	22	31	82	32	17	14	24	19	13	25/25
035433	240	(500)	10	3/8"	25	31,5	90	39	17	14	27	21,5	10,5	25/25
035493			12	1/2"	25	31,5	90	39	17	14	27	21,5	13	25/25

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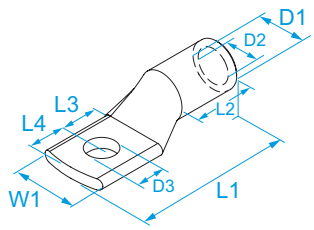
TERMINAL LUGS FOR COPPER CONDUCTORS · UNINSULATED · LONG BARREL



TERMINAL MATERIAL: tinned copper

OPERATING TEMPERATURE: from -50 °C to +150 °C

CONDUCTOR CLASS: Class 1 and 2 (rigid) and Class 5 (flexible) according to EN 60228

APPLICATIONS: Suitable for outdoors installations(the absence of the inspection hole prevents the humidity and atmospheric agents infiltration).Suitable for heavy applications (the greater length of the barrel allows more crimping increasing the tensile strength).
Suitable for the grounding of structures and equipment both indoors and outdoors.

ACCORDING TO STD.: UL 486 A-B

INSPECTION HOLE: no

Code	Rigid section (mm²)	Rigid section (AWG/kcmil)	Flexible section (mm²)	Flexible section (AWG/kcmil)	For screw Ø screw (mm)	For screw Stud size	Indent	W1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	D1 (mm)	D2 (mm)	D3 (mm)	
71537	16	(6)	16	(6)	8	5/16"	7,5	11,5	41	22	8,7	6,3	8	6	8,4	100/100
71637	25	(4)	25	(4)	8	5/16"	9	13,5	49	27	10	8	9,5	7	8,4	100/100
71737	35	(2)	35	(2)	8	5/16"	11	17	57	28	11	8,6	11,5	8,5	8,4	100/100
71743					10	3/8"	11	17	57	28	11	10	11,5	8,5	10,5	100/100
71837	50	(1/0)	50	(1/0)	8	5/16"	12	19	67	35	12,7	10,5	13	10	8,4	50/50
71843					10	3/8"	12	19	67	35	13,7	9,5	13	10	10,3	50/100
71849					12	1/2"	12	21	67	35	15,3	12	13	10	12,5	50/100
71943	70	(2/0)	70	(2/0)	10	3/8"	14	22	75	41	14,2	11,3	15	12	10,3	50/50
71949					12	1/2"	14	22	75	41	14,2	11,3	15	12	12,5	50/50
71955					14	9/16"	14	22	75	41	14,2	11,3	15	12	14,5	50/50
71961					16	5/8"	14	22	75	41	14,2	11,3	15	12	16,5	50/50
73143	95	(3/0)	95	(3/0)	10	3/8"	16	25	89	44	17,5	12,5	17,5	13,8	10,3	25/25
73149					12	1/2"	16	25	89	44	17,5	12,5	17,5	13,8	12,5	25/25
73155					14	9/16"	16	25	89	44	17,5	13	17,5	13,8	14,5	25/25
73161					16	5/8"	16	25	89	44	17,5	13	17,5	13,8	16,5	25/25
73243	120	(4/0)	120	(4/0)	10	3/8"	18	28	101	50	22,5	14	19,5	15,5	10,4	25/25
73249					12	1/2"	18	28	101	50	22,5	14	19,5	15,5	12,5	25/25
73255					14	9/16"	18	28	101	50	22,5	14	19,5	15,5	14,5	25/25
73261					16	5/8"	18	28	101	50	22,5	14	19,5	15,5	16,5	25/25
73349	150	(300)	150	(300)	12	1/2"	20	31	104	51	22	16	21	17	12,5	25/25
73355					14	9/16"	20	31	104	51	22	16	21	17	14,5	25/25
73361					16	5/8"	20	31	104	51	22	16,5	21	17	16,5	25/25
73367					20	3/4"	20	31	104	51	23	16,5	21	17	21	25/25
73455	185	(400)	185	(400)	14	9/16"	22	35	104	55	18	16	24	19	14,5	10/10
73461					16	5/8"	22	35	104	55	19	17	24	19	16,5	10/10
73467					20	3/4"	22	35	104	55	22	20	24	19	21	10/10
73555	240	(500)	240	(500)	14	9/16"	25	39	108	58	18	16	27	21,5	14,5	10/10
73561					16	5/8"	25	39	110	58	19	17	27	21,5	17	10/10
73567					20	3/4"	25	39	116	58	22	20	27	21,5	21	10/10
73661	300	(600)	240	(500)	16	5/8"	28	44	122	60	22	20	30	24	17	10/10
73761•	400	(800)	300	(600)	16	5/8"	35	50	127	62	22	20	35	27	17	10/10

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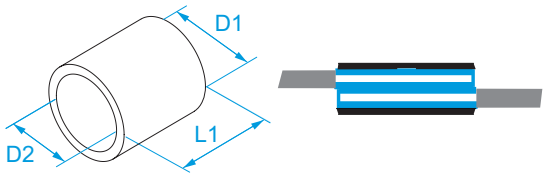
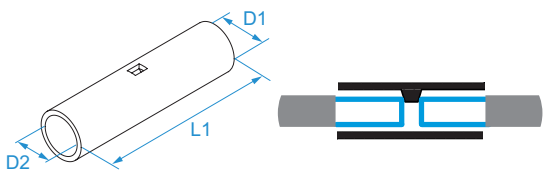
PARALLEL CONNECTORS · UNINSULATED



TERMINAL MATERIAL: tinned copper
OPERATING TEMPERATURE: from -50 °C to +150 °C
HOW TO ASSEMBLE: overlap the two conductors

Code	Section (mm²)	Section (AWG)	L1 (mm)	D1 (mm)	D2 (mm)	
01162	0.25 ÷ 1.5	(22 - 16)	8	3,3	1,8	200/2000
01262	1.5 ÷ 2.5	(16 - 14)	8	4,1	2,5	200/2000
01362	4 ÷ 6	(12 - 10)	8,5	5,5	3,7	100/1000

BUTT CONNECTORS · UNINSULATED



TERMINAL MATERIAL: tinned copper
ACCORDING TO STANDARD: UL 486 A-B
OPERATING TEMPERATURE: from -50 °C to +150 °C
TYPE: with central inspection hole and flush for a right insertion of the conductor.

Code	Section (mm²)	Section (AWG/kcmil)	Indent	L1 (mm)	D1 (mm)	D2 (mm)	
01160*	0.25 ÷ 1.5	(22 - 16)	-	15	3,3	1,8	200/2000
01260*	1.5 ÷ 2.5	(16 - 14)	-	15	4,1	2,5	200/2000
01360*	4 ÷ 6	(12 - 10)	-	15	5,5	3,7	100/1000
01460*	10	(8)	7	25	7	5	100/100
01560	16	(6)	7,5	28	8	6	100/100
01660	25	(4)	9	28	9,5	7	100/100
01760	35	(2)	11	36	11,5	8,5	100/100
01860	50	(1/0)	12	36	13	10	50/50
01960	70	(2/0)	14	45	15	12	50/50
03160	95	(3/0)	16	46	17	13,8	50/50
03260	120	(4/0)	18	50	19,5	15,5	50/50
03360	150	(300)	20	60	21	17	25/25
03460	185	(400)	22	64	24	19	25/25
03560	240	(500)	25	73	27	21,5	25/25
03660	300	(600)	28	75	30	24	25/25
03760•	400	(800)	35	85	35	27	10/10
03860•	500	(1000)	38	97	38	30	10/10
03960•	600/630	(1250)	42	104	42	33,6	10/10

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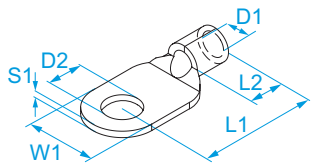
TERMINAL LUGS FOR COPPER CONDUCTORS · UNINSULATED · RING · SILVER ALLOY BRAZED DIN 46234



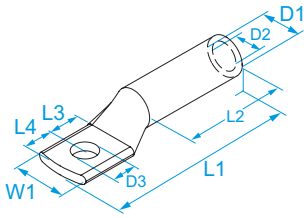
TERMINAL MATERIAL: tinned copper
SEAM: brazed silver alloy
OPERATING TEMPERATURE: from -50 °C to +150 °C
ACCORDING TO STD.: DIN 46234

Code	Section (mm²)	Section (AWG/kcmil)	For screw Ø screw (mm)	For screw Stud size	W1 (mm)	L1 (mm)	L2 (mm)	D1 (mm)	D2 (mm)	S1 (mm)	
02425	10	(8)	5	#10	10	16	8	4,5	5,3	1,1	100/500
02431			6	#12	11	17	8	4,5	6,4	1,1	100/100
02437			8	5/16"	14	20	8	4,5	8,4	1,1	100/100
02443			10	3/8"	18	21	8	4,5	10,5	1,1	100/100
02449			12	1/2"	22	23	8	4,5	13	1,1	100/100
02525	16	(6)	5	#10	11	20	10	5,8	5,3	1,2	100/500
02531			6	#12	11	20	10	5,8	6,4	1,2	100/100
02537			8	5/16"	14	22	10	5,8	8,4	1,2	100/100
02543			10	3/8"	18	24	10	5,8	10,5	1,2	100/100
02549			12	1/2"	22	26	10	5,8	13	1,2	100/100
02561•			16	5/8"	32	36	10	5,8	17	1,2	100/100
02631	25	(4)	6	#12	12	25	11	7,5	6,4	1,5	100/100
02637			8	5/16"	16	25	11	7,5	8,4	1,5	100/100
02643			10	3/8"	18	26	11	7,5	10,5	1,5	100/100
02649			12	1/2"	22	31	11	7,5	13	1,5	100/100
02655•			14	9/16"	30	37	11	7,5	15	1,5	100/100
02661			16	5/8"	28	35	11	7,5	17	1,5	100/100
02731	35	(2)	6	#12	15	26	12	9	6,5	1,6	100/100
02737			8	5/16"	16	26	12	9	8,4	1,7	100/100
02743			10	3/8"	18	27	12	9	10,5	1,7	100/100
02749			12	1/2"	22	31	12	9	13	1,7	100/100
02755•			14	9/16"	28	36	12	9	15	1,7	100/100
02761			16	5/8"	28	36	12	9	17	1,7	100/100
02837	50	(1/0)	8	5/16"	18	34	16	11	8,4	1,8	100/100
02843			10	3/8"	18	34	16	11	10,5	1,8	100/100
02849			12	1/2"	22	36	16	11	13	1,8	100/100
02855•			14	9/16"	28	40	16	11	15	1,8	100/100
02861			16	5/8"	28	40	16	11	17	1,8	100/100
02937	70	(2/0)	8	5/16"	22	38	18	13	8,4	2	50/50
02943			10	3/8"	22	38	18	13	10,5	2	50/50
02949			12	1/2"	22	38	18	13	13	2	50/50
02955•			14	9/16"	28	42	18	13	15	2	50/50
04137	95	(3/0)	8	5/16"	24	42	20	15	8,4	2,5	50/50
04143			10	3/8"	24	42	20	15	10,5	2,5	50/50
04149			12	1/2"	24	42	20	15	13	2,5	50/50
04155•			14	9/16"	28	44	20	15	15	2,5	50/50
04161			16	5/8"	28	44	20	15	17	2,5	50/50
04243	120	(4/0)	10	3/8"	24	44	22	16,5	10,5	3	25/25
04249			12	1/2"	24	44	22	16,5	13	3	25/25
04255•			14	9/16"	28	48	22	16,5	15	3	25/25
04261			16	5/8"	28	48	22	16,5	17	3	25/25
04267•			20	3/4"	32	53	22	16,5	21	3	25/25

Code	Section (mm²)	Section (AWG/kcmil)	For screw Ø screw (mm)	For screw Stud size	W1 (mm)	L1 (mm)	L2 (mm)	D1 (mm)	D2 (mm)	S1 (mm)	
04343	150	(300)	10	3/8"	30	50	24	19	10,5	3,2	25/25
04349			12	1/2"	30	50	24	19	13	3,2	25/25
04361			16	5/8"	30	50	24	19	17	3,2	25/25

c UL us LISTED file n° E 137735 • No UL

TERMINAL LUGS FOR COPPER CONDUCTORS · UNINSULATED · DIN 46235



TERMINAL MATERIAL: tinned copper
OPERATING TEMPERATURE: from -50 °C to +150 °C
DIMENSIONS: compliant to DIN 46235
ACCORDING TO STD.: DIN 46235, UL 486 A-B
INSPECTION HOLE: no

Code	Section (mm²)	Section (AWG/kcmil)	For screw Ø screw (mm)	For screw Stud size	Indent	W1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	D1 (mm)	D2 (mm)	D3 (mm)	
80425	10	(8)	5	#10	6	9	36	10	6	9	6	4,5	5,3	100/100
80431			6	#12	6	9	36	10	8	10,5	6	4,5	6,4	100/100
80531	16	(6)	6	#12	8	13	49	20	8	10,5	8,5	5,5	6,4	100/100
80537			8	5/16"	8	13	49	20	10	13	8,5	5,5	8,4	100/100
80543			10	3/8"	8	17	53	20	12	15	8,5	5,5	10,5	100/100
80631	25	(4)	6	#12	10	14	48,5	20	8	10,5	10	7	6,4	100/100
80637			8	5/16"	10	16	51	20	10	13	10	7	8,4	100/100
80643			10	3/8"	10	17	53	20	12	15	10	7	10,5	100/100
80649			12	1/2"	10	19	54	20	13	16	10	7	13	100/100
80737	35	(2)	8	5/16"	12	17	55	20	10	13	12,5	8,5	8,4	100/100
80743			10	3/8"	12	19	57	20	12	15	12,5	8,5	10,5	100/100
80749			12	1/2"	12	21	58	20	13	16	12,5	8,5	13	100/100
80837	50	(1/0)	8	5/16"	14	20	65	28	10	13	14	10	8,4	50/50
80843			10	3/8"	14	22	67	28	12	15	14	10	10,5	50/50
80849			12	1/2"	14	24	68	28	13	16	14	10	13	50/50
80861			16	5/8"	14	28	71	28	16	19	14	10	17	50/50
80937	70	(2/0)	8	5/16"	16	24	68	28	10	13	16	12	8,4	50/50
80943			10	3/8"	16	24	70	28	12	15	16	12	10,5	50/50
80949			12	1/2"	16	24	71	28	13	16	16	12	13	50/50
80961			16	5/8"	16	30	74	28	16	19	16	12	17	50/50
83143	95	(3/0)	10	3/8"	18	28	80	35	12	15	19	13,8	10,5	25/25
83149			12	1/2"	18	28	81	35	13	16	19	13,8	13	25/25
83161			16	5/8"	18	32	84	35	16	19	19	13,8	17	25/25
83243	120	(4/0)	10	3/8"	20	32	85	35	12	15	21	15,5	10,5	25/25
83249			12	1/2"	20	32	86	35	13	16	21	15,5	13	25/25
83261			16	5/8"	20	32	89	35	16	19	21	15,5	17	25/25
83267			20	3/4"	20	38	92	35	20	22	21	15,5	21	25/25
83343	150	(300)	10	3/8"	22	34	93	35	12	15	23,5	17	10,5	25/25
83349			12	1/2"	22	34	94	35	13	16	23,5	17	13	25/25
83361			16	5/8"	22	34	97	35	16	19	23,5	17	17	25/25
83367			20	3/4"	22	40	100	35	20	22	23,5	17	21	10/10
83443	185	(400)	10	3/8"	25	37	97	40	12	15	25,5	19	10,5	10/10
83449			12	1/2"	25	37	98	40	13	16	25,5	19	13	10/10
83461			16	5/8"	25	37	101	40	16	19	25,5	19	17	10/10
83467			20	3/4"	25	40	104	40	20	22	25,5	19	21	10/10
83549	240	(500)	12	1/2"	28	42	107	40	13	16	29	21,5	13	10/10
83561			16	5/8"	28	42	108	40	16	19	29	21,5	17	10/10
83567			20	3/4"	28	45	111	40	20	22	29	21,5	21	10/10

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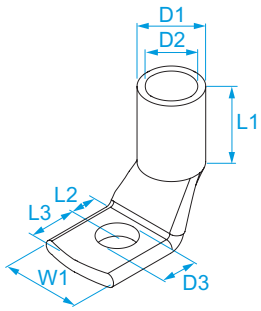
TERMINAL LUGS FOR COPPER CONDUCTORS · UNINSULATED · BENT 90° · FROM DIN 46235 TERMINAL LUGS



TERMINAL MATERIAL: tinned copper
OPERATING TEMPERATURE: from -50 °C to +150 °C
DIMENSIONS: compliant to DIN 46235
ACCORDING TO STD.: UL 486 A-B
INSPECTION HOLE: no

Code	Section (mm²)	Section (AWG/kcmil)	For screw Ø screw (mm)	For screw Stud size	Indent	W1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	D1 (mm)	D2 (mm)	D3 (mm)	
805379	16	(6)	8	5/16"	8	13	20	10	13	8,5	5,5	8,4	100/100
805439			10	3/8"	8	17	20	12	15	8,5	5,5	10,5	100/100
806499	25	(4)	12	1/2"	10	19	20	13	16	10	7	13	100/100
807499	35	(2)	12	1/2"	12	21	20	13	16	12,5	8,5	13	100/100
808499	50	(1/0)	12	1/2"	14	24	28	13	16	14	10	13	50/50
809499	70	(2/0)	12	1/2"	16	24	28	13	16	16	12	13	50/50
831499	95	(3/0)	12	1/2"	18	28	35	13	16	19	13,8	13	25/25
831619			16	5/8"	18	32	35	16	19	19	13,8	17	25/25
832619	120	(4/0)	16	5/8"	20	32	35	16	19	21	15,5	17	25/25

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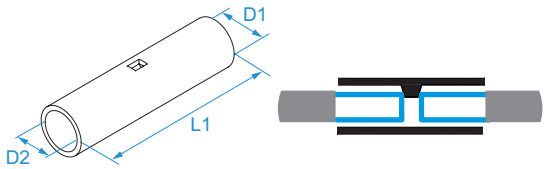
BUTT CONNECTORS · UNINSULATED · DIN 46267/1



TERMINAL MATERIAL: tinned copper

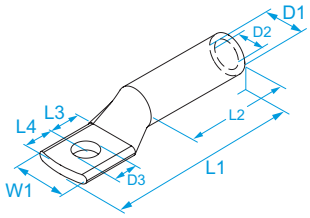
ACCORDING TO STANDARD: DIN 46267/1

OPERATING TEMPERATURE: from -50 °C to +150 °C

TYPE: with central inspection hole and flush for a right insertion of the conductor.

Code	Section (mm²)	Section (AWG/kcmil)	Indent	L1 (mm)	D1 (mm)	D2 (mm)	
81460	10	(8)	6	30	6	4,5	100/100
81560	16	(6)	8	50	8,5	5,5	100/100
81660	25	(4)	10	50	10	7	100/100
81760	35	(2)	12	50	12,5	8,5	100/100
81860	50	(1/0)	14	56	14	10	50/50
81960	70	(2/0)	16	56	16	12	50/50
83160	95	(3/0)	18	70	19	13,8	25/25
83260	120	(4/0)	20	70	21	15,5	25/25
83360	150	(300)	22	80	23,5	17	25/25
83460	185	(400)	25	85	25,5	19	10/10
83560	240	(500)	28	90	29	21,5	10/10

TERMINAL LUGS FOR COPPER CONDUCTORS · UNINSULATED · MEDIUM VOLTAGE



TERMINAL MATERIAL: tinned copper

RATED VOLTAGE: from 1 kV to 35 kV AC

OPERATING TEMPERATURE: from -50 °C to +150 °C

CONDUCTOR CLASS: Class 2 (stranded non compacted circular, compacted circular and shaped conductors) according to EN 60228

INSPECTION HOLE: no

Code	Conductor section no compacted circular or shaped (mm²)	Conductor compacted circular section (mm²)	For screw Ø screw (mm)	For screw Stud size	Indent	W1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	D1 (mm)	D2 (mm)	D3 (mm)	
73025	25	35	8	5/16"	10	16,5	72	37	11	13	10	7	8,4	25/25
73125	25	35			10	20	76	37	13	16	10	7	13	25/25
73035	35	-			12	23	76	36	13	16	13	8,4	13	25/25
73050	50	-			12	20	77	35	17,5	13,5	13	9,5	13	25/25
73070	70	-	12	1/2"	16	27	82	37,5	16	14	18	11,5	13	25/25
73095	95	-			20	28	86,5	43	16	14	20	13,5	13	25/25
73120	120	150			22	32	93,5	49,5	16	14	23	15,3	13	25/25
73150	150	160			22	34	100	49	16	13	23,5	17	13	10/10
73200	185	240			28	41,5	103	54	18	16	30	20	15	10/10
73240	240	300-315			28	43	103	53	18	16	30	21,8	15	10/10
73300*	300	-	14	9/16"	28	43	120	58	23	19	30	24	15	10/10
73400	400	-			35	50	131	66	23	19	35	27	15	10/10
73500	500	-			38	54,5	147	68	22	19	38	30	17	5/5
73630	630	-	16	5/8"	42	61	163	83	25	23	42	33,6	17	5/5

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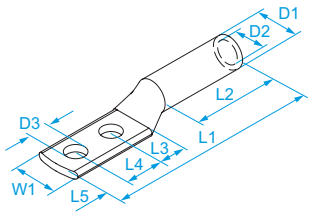
TERMINAL LUGS FOR COPPER CONDUCTORS · UNINSULATED · MEDIUM VOLTAGE · DOUBLE HOLE



TERMINAL MATERIAL: tinned copper

RATED VOLTAGE: from 1 kV to 35 kV AC

OPERATING TEMPERATURE: from -50 °C to +150 °C

CONDUCTOR CLASS: Class 2 (stranded non compacted circular, compacted circular and shaped conductors) according to EN 60228

INSPECTION HOLE: no

Code	Conductor section no compacted circular or shaped (mm²)	Conductor compacted circular section (mm²)	For screw Ø screw (mm)	For screw Stud size	Indent	W1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	D1 (mm)	D2 (mm)	D3 (mm)	
73201	25	35	8	5/16"	10	16,5	117	37	11	44,5	13	10	7	8,4	25/50
73211	25	35	12	1/2"	10	20	121	37	13	44,5	16	10	7	13	50/50
73202	35				12	23	121	36	13	44,5	16	13	8,4	13	25/25
73203	50				12	20	122	35	17,5	44,5	13,5	13	9,5	13	25/25
73204	70				16	27	127	37,5	16	44,5	14	18	11,5	13	25/25
73205	95		14	9/16"	20	28	131	43	16	44,5	14	20	13,5	15	10/10
73206	120	150			22	32	138	49,5	16	44,5	14	23	15,3	15	10/10
73207	150	160			22	34	145	49	16	44,5	13	23,5	17	15	10/10
73208	185	240			28	41,5	148	54	18	44,5	16	30	20	15	10/10
73209	240	300-315			28	43	147	53	18	44,5	16	30	21,8	15	10/10
73210*	300				28	43	150	46	18	44,5	16	30	24	15	10/10
73212	400				35	50	162	60	18	44,5	16	35	27	15	5/5
73213	500		16	5/8"	38	56	192	68	22	44,5	19	38	30	17	5/5
73214	630				42	61	208	83	25	44,5	23	42	33,6	17	5/5

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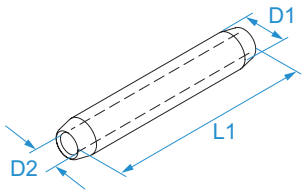
JOINTS · FOR COPPER CONDUCTORS · MEDIUM VOLTAGE



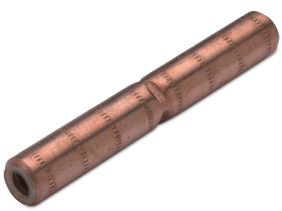
TERMINAL MATERIAL: tinned copper
OPERATING TEMPERATURE: from -50 °C to +150 °C
VOLTAGE:up to 35kV
CHARACTERISTIC: conical edge at both sides

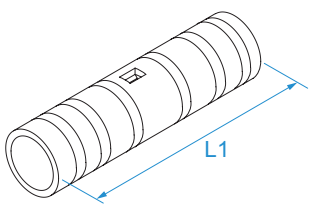
Code	Sezione conduttore non compatto circolare o settoriale	Conductor compacted circular section	Indent	L1 (mm)	D1 (mm)	D2 (mm)	
72025	25	35	10	60	10	7	25/25
72035	35	-	12	60	13	8,4	25/25
72050	50	-	12	60	13	9,5	25/25
72070	70	-	16	70	18	11,5	25/25
72095	95	-	20	80	20	13,5	25/25
72120	120 - 125	150	22	80	23	15,3	25/25
72150	150	160	22	80	23,5	17	25/25
72200	200	240	28	100	30	20	10/10
72240	240	300 - 315	28	100	30	21,8	10/10
72300*	300 - 315	-	28	104	30	24	10/10
72400	400	-	35	116	35	27	5/5
72500	500	-	40	120	39,5	30,5	5/5
72630	630	-	42	130	42	33,6	5/5

LISTED

* file n° E 137735

FULL TENSILE JOINTS · FOR COPPER CONDUCTORS AND AERIAL LINES

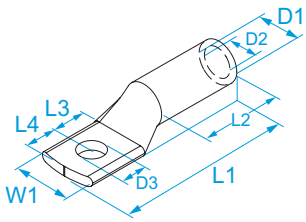




TERMINAL MATERIAL: electrolytic copper
CHARACTERISTIC: high mechanical resistance to traction
APPLICATION: connection of medium voltage aerial lines

Code	Section (mm²)	Section (AWG)	Wires (# Wires)	conductor external Ø (mm)	L1 (mm)	
75010	10	(8)	7 x 1.35	4.05	62	10/10
75016	16	(6)	1 x 4.5	4.5	78	10/10
75017	16	(6)	7 x 1.35	5.1	78	10/10
75025	25	(4)	7 x 2.14	6.42	91	10/10
75035	35	(2)	7 x 2.52	7.56	100	10/10
75050	50	(1/0)	7 x 3, 19 x 1.80	9	125	10/10
75070	63 ÷ 70	(2/0)	19 x 2, 19 x 2.14	10.5 - 10.70	125	10/10
75095	95	(3/0)	19 x 2.52	12.6	189	10/10

TERMINAL LUGS FOR ALUMINUM CONDUCTORS · UNINSULATED · DIN 48201



TERMINAL MATERIAL: aluminum 1050 A EN573-3 with no less than 99.5% purity

OPERATING TEMPERATURE: from -50 °C to +150 °C

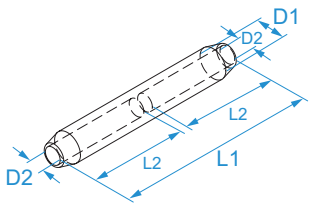
ACCORDING TO STD.: DIN 48201

PROTECTION: the conductor housing is filled with grease (dropping point 90 °C) and plugged with a plastic cap to avoid oxidation.

INSPECTION HOLE: no

Code	Conductor section no compacted circular or shaped (mm²)	Conductor compacted circular section (mm²)	For screw Ø screw (mm)	For screw Stud size	Indent	W1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	D1 (mm)	D2 (mm)	D3 (mm)	
76016	16	25	8	5/16"	12	18	66	33,5	12,5	12,5	12	5,8	8,5	25/25
76017	16	25	10	3/8"	12	18	66	33,5	12,5	12,5	12	5,8	10,5	25/25
76025	25	35	8	5/16"	12	18	72,5	40	12,5	12,5	12	6,8	8,5	25/25
76026	25	35	10	3/8"	12	18	72,5	40	12,5	12,5	12	6,8	10,5	25/25
76035	35	50	10	3/8"	13	21	80	44	14	13	14	8	10,5	25/25
76036	35	50	12	1/2"	13	21	80	44	14	13	14	8	13	25/25
76050	50	70	10	3/8"	15	25	86	46	15	14	16	9,8	10,5	25/25
76051	50	70	12	1/2"	15	25	86	46	15	14	16	9,8	13	25/25
76070	70	95	10	3/8"	20	28	101	54	16	14	18,5	11,2	10,5	25/25
76071	70	95	12	1/2"	20	28	101	54	16	14	18,5	11,2	13	25/25
76095	95	120	10	3/8"	21	32	105	57	16	14	22	13,2	10,5	25/25
76096	95	120	12	1/2"	21	32	105	57	16	14	22	13,2	13	25/25
76097	95	120	16	5/8"	21	34	110	57	19	16	22	13,2	17	25/25
76120	120	150	12	1/2"	22	34	108	59	18	17	23	14,7	13	25/25
76121	120	150	16	5/8"	22	34	108	59	18	17	23	14,7	17	25/25
76150	150	185	12	1/2"	25	35	120	64	19	17	25	16,3	13	10/10
76151	150	185	16	5/8"	25	35	120	64	19	17	25	16,3	17	10/10
76152	150	185	20	3/4"	25	35	126	64	22	20	25	16,3	21	10/10
76185	185	240	12	1/2"	28	40	127	64	24,5	21	28,5	18,3	13	10/10
76186	185	240	16	5/8"	28	40	127	64	24,5	21	28,5	18,3	17	10/10
76187	185	240	20	3/4"	28	40	127	64	24,5	21	28,5	18,3	21	10/10
76240	240	300	12	1/2"	32	45	140	70	25	24	32	21	13	10/10
76241	240	300	16	5/8"	32	45	140	70	25	24	32	21	17	10/10
76242	240	300	20	3/4"	32	45	140	70	25	24	32	21	21	10/10

JOINTS · FOR ALUMINUM CONDUCTORS · MEDIUM VOLTAGE



TERMINAL MATERIAL: aluminum with no less than 99.5% purity

ACCORDING TO STD.: DIN 48201

OPERATING TEMPERATURE: from -50 °C to +150 °C

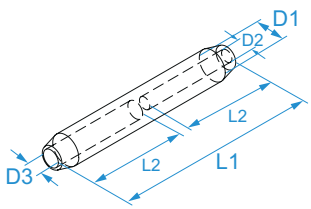
VOLTAGE:up to 35kV

PROTECTION: the conductor housing is filled with grease (dropping point 90°C) and plugged with a plastic cap to avoid oxidation.

TYPE: with central diaphragm for a right insertion of the conductor.
The diaphragm is sealed to avoid the mixture of paper filled cables to get in touch with cables with solid insulation.

Code	Section (mm²)	Section (AWG/kcmil)	Indent	L1 (mm)	L2 (mm)	D1 (mm)	D2 (mm)	
70202	35 ÷ 35	(2 - 2)	20	138	67	20	8	10/10
70203	50 ÷ 50	(1/0 - 1/0)	20	138	67	20	9	10/10
70204	70 ÷ 70	(2/0 - 2/0)	20	138	67	20	11	10/10
70205	95 ÷ 95	(3/0 - 3/0)	20	138	67	20	12,5	10/10
70206	120 ÷ 120	(4/0 - 4/0)	25	164	80	25	13,7	10/10
70207	150 ÷ 150	(300 - 300)	25	164	80	25	15,5	10/10
70208	185 ÷ 185	(400 - 400)	32	176	86	32	17	10/10
70209	240 ÷ 240	(500 - 500)	32	176	86	32	19,5	10/10

REDUCTION JOINTS · FOR ALUMINUM OR COPPER CONDUCTORS · MEDIUM VOLTAGE



TERMINAL MATERIAL: aluminum with no less than 99.5% purity

ACCORDING TO STD.: DIN 48201

OPERATING TEMPERATURE: from -50 °C to +150 °C

VOLTAGE:up to 35kV

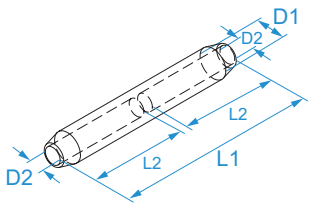
PROTECTION: the conductor housing is filled with grease (dropping point 90°C) and plugged with a plastic cap to avoid oxidation.

TYPE: with central diaphragm for a right insertion of the conductor.
The diaphragm is sealed to avoid the mixture of paper filled cables to get in touch with cables with solid insulation.

APPLICATION: connection of Al conductors to smaller Al or Cu conductors

Code	Section (mm²)	Section (AWG/kcmil)	Indent	L1 (mm)	L2 (mm)	D1 (mm)	D2 (mm)	D3 (mm)	
70232	50 ÷ 35	(1/0 - 2)	20	138	67	20	8	9	10/10
70243	70 ÷ 50	(2/0 - 1/0)	20	138	67	20	9	11	10/10
70253	95 ÷ 50	(3/0 - 1/0)	20	138	67	20	9	12,5	10/10
70254	95 ÷ 70	(3/0 - 2/0)	20	138	67	20	11	13,7	10/10
70264	120 ÷ 70	(4/0 - 2/0)	25	164	80	25	11	13,7	10/10
70265	120 ÷ 95	(4/0 - 3/0)	25	164	80	25	12,5	15,5	10/10
70275	150 ÷ 95	(300 - 3/0)	25	164	80	25	12,5	15,5	10/10
70276	150 ÷ 120	(300 - 4/0)	25	164	80	25	13,7	17	10/10
70284	185 ÷ 50	(400 - 1/0)	32	176	86	32	9	17	10/10
70285	185 ÷ 95	(400 - 3/0)	32	176	86	32	12,5	17	10/10
70286	185 ÷ 120	(400 - 4/0)	32	176	86	32	13,7	17	10/10
70287	185 ÷ 150	(400 - 300)	32	176	86	32	15,5	17	10/10
70297	240 ÷ 150	(500 - 300)	32	176	86	32	15,5	19,5	10/10
70298	240 ÷ 185	(500 - 400)	32	176	86	32	17	19,5	10/10

JOINTS · FOR ALUMINUM CONDUCTORS · DIN 48201



TERMINAL MATERIAL: aluminum 1050 A EN573-3 with no less than 99.5% purity

ACCORDING TO STD.: DIN 48201

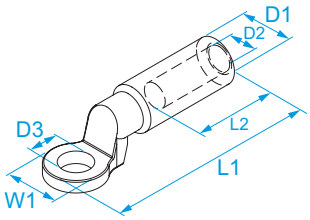
OPERATING TEMPERATURE: from -50 °C to +150 °C

PROTECTION: the conductor housing is filled with grease (dropping point 90°C) and plugged with a plastic cap to avoid oxidation.

TYPE: with central and sealed diaphragm for a right insertion of the conductor.

Code	Section (mm^2)	Section (AWG/kcmil)	Indent	L1 (mm)	L2 (mm)	D1 (mm)	D2 (mm)	
70402	35 ÷ 35	(2 - 2)	13	95	45,5	14	8	10/10
70403	50 ÷ 50	(1/0 - 1/0)	15	95	45,5	16	9,8	10/10
70404	70 ÷ 70	(2/0 - 2/0)	20	100	48	18,5	11,2	10/10
70405	95 ÷ 95	(3/0 - 3/0)	21	105	50,5	22	13,5	10/10
70406	120 ÷ 120	(4/0 - 4/0)	22	110	52,5	23	14,7	10/10
70407	150 ÷ 150	(300 - 300)	25	110	52,5	25	16,3	10/10
70408	185 ÷ 185	(400 - 400)	28	130	62	28,5	18,3	10/10
70409	240 ÷ 240	(500 - 500)	32	130	62	32	21	10/10

BIMETALLIC TERMINAL LUGS FOR ALUMINUM CONDUCTORS · UNINSULATED · MEDIUM VOLTAGE



PALM MATERIAL: copper 99.9%

BARREL MATERIAL: aluminum 99.5%

OPERATING TEMPERATURE: from -50 °C to +150 °C

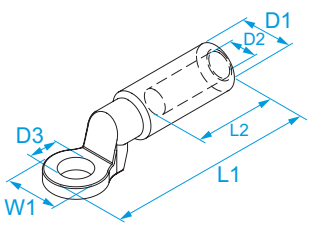
APPLICATIONS: useful where an aluminum cable has to be terminated by a copper bus bar or copper contact. Indeed a galvanic action occurs if terminals of only copper or aluminum are used due to dissimilar contact.

PROTECTION: the conductor housing is filled with grease (dropping point 90 °C) and plugged with a plastic cap to avoid oxidation.

INSPECTION HOLE: no

Code	Section (mm²)	Section (AWG/kcmil)	For screw Ø screw (mm)	For screw Stud size	Indent	W1 (mm)	L1 (mm)	L2 (mm)	D1 (mm)	D2 (mm)	D3 (mm)	
70000	16	(6)	12	1/2"	15	22,5	87	47,5	16	5,6	13	10/10
70001	25	(4)	12	1/2"	15	22,5	87	47,5	16	6,6	13	10/10
70002	35	(2)	12	1/2"	20	25	88	47,5	20	8,2	13	10/10
70003	50	(1/0)	12	1/2"	20	25	88	47,5	20	9,2	13	10/10
70004	70	(2/0)	12	1/2"	20	25	88	47,5	20	11,2	13	10/10
70005	95	(3/0)	12	1/2"	20	25	88	47,5	20	12,7	13	10/10
70006	120	(4/0)	12	1/2"	25	32	113	64,5	25	13,9	13	10/10
70007	150	(300)	12	1/2"	25	32	113	64,5	25	15,7	13	10/10
70008	185	(400)	12	1/2"	32	35,5	118	64,5	32	17,2	13	10/10
70009	240	(500)	12	1/2"	32	35,5	118	64,5	32	19,7	13	10/10
70010	300	(600)	12	1/2"	34	35,5	145	80	34	23,3	13	10/10
70011	400	(800)	12	1/2"	40	35,5	150	83	40	26	13	10/10

BIMETALLIC TERMINAL LUGS FOR ALUMINUM CONDUCTORS · UNINSULATED · DIN 48201



PALM MATERIAL: copper 99.9%

BARREL MATERIAL: aluminum 99.5%

OPERATING TEMPERATURE: from -50 °C to +150 °C

APPLICATIONS: useful where an aluminum cable has to be terminated by a copper bus bar or copper contact. Indeed a galvanic action occurs if terminals of only copper or aluminum are used due to dissimilar contact.

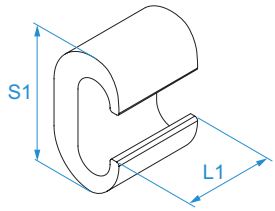
ACCORDING TO STD.: DIN 48201

PROTECTION: the conductor housing is filled with grease (dropping point 90 °C) and plugged with a plastic cap to avoid oxidation.

INSPECTION HOLE: no

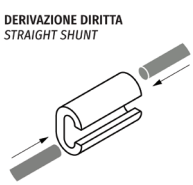
Code	Section (mm²)	Section (AWG/kcmil)	For screw Ø screw (mm)	For screw Stud size	Indent	W1 (mm)	L1 (mm)	L2 (mm)	D1 (mm)	D2 (mm)	D3 (mm)	
70602	35	(2)	12	1/2"	13	25	90	43	14	8	13	10/10
70603	50	(1/0)	12	1/2"	15	25	92	43	16	9,8	13	10/10
70604	70	(2/0)	12	1/2"	20	25	92	45	18,5	11,2	13	10/10
70605	95	(3/0)	12	1/2"	21	25	92	45	22	13,2	13	10/10
70606	120	(4/0)	12	1/2"	22	32	120	60	23	14,7	13	10/10
70607	150	(300)	12	1/2"	25	32	120	60	25	16,3	13	10/10
70608	185	(400)	12	1/2"	28	35,5	125	60	28,5	18,3	13	10/10
70609	240	(500)	12	1/2"	32	35,5	125	65	32	21	13	10/10

C SHUNT

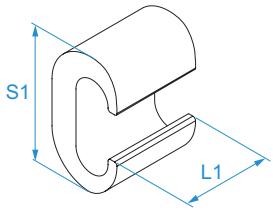


TERMINAL MATERIAL: copper
OPERATING TEMPERATURE: from -50 °C to +150 °C
APPLICATION: connectors for ground connections

Code	Section (mm²)	Section (AWG/kcmil)	T/Straight shunt Primary (mm²)	T/Straight shunt Derivative (mm²)	Cross shunt Section (mm²)	L1 (mm)	S1 (mm)	
01416	6 ÷ 6	(10 - 10)	6 - 2.5	6 - 1.5	-	9	9,8	100/100
01400	10 ÷ 10	(8 - 8)	10	10 - 1.5	-	12	12,6	100/100
01401	16 ÷ 16	(6 - 6)	16	16 - 2.5	-	17,5	19,4	100/100
01408	25 ÷ 10	(4 - 8)	25 - 16	10 - 1.5	-	17	19,8	100/100
01402	25 ÷ 25	(4 - 4)	25	25 - 16	-	17,5	21,4	100/100
01409	35 ÷ 16	(2 - 6)	40 - 10	16 - 1.5	25 - 25	21,5	24,6	100/100
01403	35 ÷ 35	(2 - 2)	40 - 35	40 - 25	35 - 35	21,5	26,6	100/100
01410	50 ÷ 25	(1/0 - 4)	50	25 - 4	-	26,5	32,9	25/25
01404	50 ÷ 50	(1/0 - 1/0)	50	50 - 35	-	26,5	33	25/25
01411	70 ÷ 35	(2/0 - 2)	70 - 63	40 - 4	-	27	33	25/25
01405	70 ÷ 70	(2/0 - 2/0)	70 - 50	70 - 35	50 - 50	27	34	25/25
01412	95 ÷ 35	(3/0 - 2)	95 - 63	40 - 4	-	30	40,5	25/25
01413	95 ÷ 70	(3/0 - 2/0)	100 - 80	70 - 50	63 - 63, 70 - 70	30	41	25/25
01406	95 ÷ 95	(3/0 - 3/0)	100 - 80	100 - 63	-	30	41	25/25
01407	120 ÷ 120	(4/0 - 4/0)	125 - 110	125 - 25	-	30	45	25/25
01414	150 ÷ 120	(300 - 4/0)	160 - 150	125 - 25	95 - 95, 120 - 120	31	45	25/25
01417	150 ÷ 150	(300 - 300)	150	150 - 63	-	30	45,3	25/25
01415	185 ÷ 95	(400 - 3/0)	185	100 - 16	125 - 125	31	45	25/25
01418	185 ÷ 185	(400 - 400)	185 - 120	185 - 120	-	22,6	68	15/15



C SHUNT · TINNED COPPER

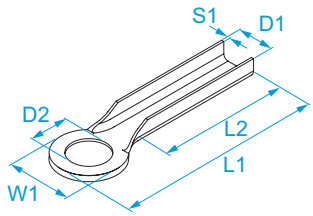


TERMINAL MATERIAL: tinned copper
OPERATING TEMPERATURE: from -50 °C to +150 °C
APPLICATION: connectors for ground connections

Code	Section (mm²)	Section (AWG/kcmil)	T/Straight shunt Primary (mm²)	T/Straight shunt Derivative (mm²)	Cross shunt Section (mm²)	L1 (mm)	S1 (mm)	
014161	6 ÷ 6	(10 - 10)	6 - 2.5	6 - 1.5	-	9	9,8	100/100
014001	10 ÷ 10	(8 - 8)	10	10 - 1.5	-	12	12,6	100/100
014011	16 ÷ 16	(6 - 6)	16	16 - 2.5	-	17,5	19,4	100/100
014081	25 ÷ 10	(4 - 8)	25 - 16	10 - 1.5	-	17	19,8	100/100
014021	25 ÷ 25	(4 - 4)	25	25 - 16	-	17,5	21,4	100/100
014091	35 ÷ 16	(2 - 6)	40 - 10	16 - 1.5	25 - 25	21,5	24,6	100/100
014031	35 ÷ 35	(2 - 2)	40 - 35	40 - 25	35 - 35	21,5	26,6	100/100
014101	50 ÷ 25	(1/0 - 4)	50	25 - 4	-	26,5	32,9	25/25
014041	50 ÷ 50	(1/0 - 1/0)	50	50 - 35	-	26,5	33	25/25
014111	70 ÷ 35	(2/0 - 2)	70 - 63	40 - 4	-	27	33	25/25
014051	70 ÷ 70	(2/0 - 2/0)	70 - 50	70 - 35	50 - 50	27	34	25/25
014121	95 ÷ 35	(3/0 - 2)	95 - 63	40 - 4	-	30	40,5	25/25
014131	95 ÷ 70	(3/0 - 2/0)	100 - 80	70 - 50	63 - 63, 70 - 70	30	41	25/25
014061	95 ÷ 95	(3/0 - 3/0)	100 - 80	100 - 63	-	30	41	25/25
014071	120 ÷ 120	(4/0 - 4/0)	125 - 110	125 - 25	-	30	45	25/25
014141	150 ÷ 120	(300 - 4/0)	160 - 150	125 - 25	95 - 95, 120 - 120	31	45	25/25
014171	150 ÷ 150	(300 - 300)	150	150 - 63	-	30	45,3	25/25
014151	185 ÷ 95	(400 - 3/0)	185	100 - 16	125 - 125	31	45	25/25
014181	185 ÷ 185	(400 - 400)	185 - 120	185 - 120	-	22,6	68	15/15

TERMINAL LUGS FOR COPPER CONDUCTORS FOR GROUND · UNINSULATED · RING

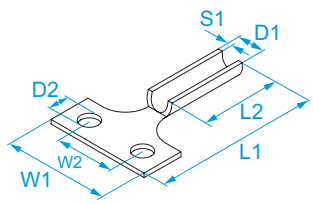
TERMINAL MATERIAL: tinned copper
OPERATING TEMPERATURE: from -50 °C to +150 °C



Code	Section (mm²)	Section (AWG)	For screw Ø screw (mm)	For screw Stud size	Indent	W1 (mm)	L1 (mm)	L2 (mm)	D1 (mm)	D2 (mm)	S1 (mm)	
79135	35	(2)	16	5/8"	14	28	84	47	10,8	17	3	25/25

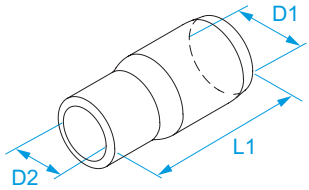
TERMINAL LUGS FOR COPPER CONDUCTORS FOR GROUND · UNINSULATED · RECTANGULAR

TERMINAL MATERIAL: tinned copper
OPERATING TEMPERATURE: from -50 °C to +150 °C



Code	Section (mm²)	Section (AWG)	For screw Ø screw (mm)	For screw Stud size	Indent	W1 (mm)	W2 (mm)	L1 (mm)	L2 (mm)	D1 (mm)	D2 (mm)	S1 (mm)	
79235	35	(2)	12	1/2"	14	70	40	100	47	10,8	13	3	25/25

ACCESSORIES FOR UNINSULATED TERMINAL LUGS · INSULATING SLEEVES

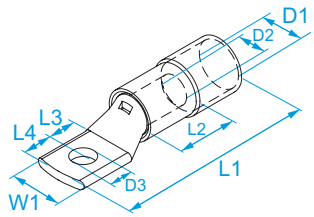


MATERIAL: PVC
INSULATION SELF-EXTINGUISHING GRADE: UL 94 V0
MAX OPERATING TEMPERATURE:105°C
COLOR: black

Code	Section (mm²)	Section (AWG/kcmil)	L1 (mm)	D1 (mm)	D2 (mm)	
81001	1,5	(16)	1,5	3,8	3,5	100/1000
81002	2,5	(14)	16,7	5	4	100/1000
81006	6	(10)	20,6	7	5,2	100/1000
81010	10	(8)	21	6,8	6,3	100/1000
81016	16	(6)	28	8	7	100/1000
81025	25	(4)	28	8	7,6	100/1000
81035	35	(2)	29	10,3	9,2	100/1000
81050	50	(1/0)	34	12	10,3	100/500
81070	70	(2/0)	42	14	13,5	100/500
81095	95	(3/0)	46	17	16	50/250
81120	120	(4/0)	55	20	18	50/250
81150	150	(300)	60	22	20	50/250
81185	185	(350)	65	24	22	50/150
81240	240	(500)	69	30	24	50/150
81300	300	(600)	75	32	27	50/150
81400	400	(800)	75	34	30	25/75

V0

TERMINAL LUGS FOR COPPER CONDUCTORS · NYLON INSULATED · BLACK



TERMINAL MATERIAL: tinned copper
INSULATION MATERIAL: polyamide (PA 6.6)
INSULATION SELF-EXTINGUISHING GRADE: UL 94 V0
OPERATING TEMPERATURE: 125 °C max
CONDUCTOR CLASS: Class 1 and 2 (rigid) and Class 5 (flexible) according to EN 60228
INSPECTION HOLE: yes

Code	Color	Rigid section (mm²)	Rigid section (AWG/kcmil)	Flexible section (mm²)	Flexible section (AWG/kcmil)	For screw Ø screw (mm)	For screw Stud size	W1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	D1 (mm)	D2 (mm)	D3 (mm)	
004191	Black					5	#10	9,8	37,1	9,5	6,5	5	8,2	5	5,3	100/100
004311	Black					6	#12	11,1	38,1	9,5	7	6	8,2	5	6,4	100/100
004371	Black	10	(8)	10	(8)	8	5/16"	14,9	42,3	9,5	9	8	8,2	5	8,4	100/100
004431	Black					10	3/8"	17,2	44,8	9,5	11	10	8,2	5	10,5	100/100
004491	Black					12	1/2"	15,5	44,7	9,5	9,3	9,3	8,2	5	12,2	100/100
005251	Black					5	#10	11,5	41,1	11	8,7	6,3	9	6	5,3	100/100
005311	Black					6	#12	11,5	39,9	11	7	6	9	6	6,4	100/100
005371	Black	16	(6)	16	(6)	8	5/16"	14,7	44,1	11	9	8	9	6	8,4	100/100
005431	Black					10	3/8"	17,5	48	11	11	10	9	6	10,5	100/100
005491	Black					12	1/2"	19,5	53,1	11	14	12	9	6	13,2	100/100
006251	Black					5	#10	14	49,2	13,5	10	7	11,5	7	5,2	100/100
006311	Black					6	#12	13,9	46,5	12,5	7	6	11,5	7	6,4	100/100
006371	Black	25	(4)	25	(4)	8	5/16"	15	50,7	12,5	9	8	11,5	7	8,4	100/100
006431	Black					10	3/8"	18	54,7	12,5	11	10	11,5	7	10,5	100/100
006491	Black					12	1/2"	21,2	59,7	12,5	14	12	11,5	7	13,2	100/100
007311	Black					6	#12	16,4	50,3	13	7	6	14	8,5	6,4	100/100
007371	Black	35	(2)	35	(2)	8	5/16"	16,8	54,1	13	9	8	14	8,5	8,4	100/100
007431	Black					10	3/8"	18,6	58,3	13	11	10	14	8,5	10,5	100/100
007491	Black					12	1/2"	20,2	63,3	13	14	12	14	8,5	13,2	100/100
008311	Black					6	#12	18,7	62,4	18	9	9	15,5	10	6,4	100/100
008371	Black					8	5/16"	18,7	64,4	18	10	10	15,5	10	8,4	100/100
008431	Black	50	(1/0)	50	(1/0)	10	3/8"	18,7	66,4	18	11	11	15,5	10	10,5	100/100
008491	Black					12	1/2"	21	69,9	18	15,3	12	15,5	10	12,5	100/100
008551	Black					14	9/16"	22	69,9	17	15,3	12	15,5	10	14,5	100/100
009371	Black					8	5/16"	21,8	73	20,5	11	10	18	12	8,5	100/100
009431	Black					10	3/8"	21,8	79	20,5	14,5	11,2	18	12	10,5	100/100
009491	Black	70	(2/0)	70	(2/0)	12	1/2"	22	79	20,5	13	13	18	12	12,5	100/100
009551	Black					14	9/16"	22	79	20,5	14	11,3	18	12	14,5	100/100
009611	Black					16	5/8"	22	79	20,5	14	11,3	18	12	16,5	100/100
051371	Black					8	5/16"	25	76,8	23	12,5	12,5	19,5	13,8	8,5	50/50
051431	Black					10	3/8"	25	82,3	23	12,5	12,5	19,5	13,8	10,5	50/50
051491	Black	95	(3/0)	95	(3/0)	12	1/2"	25	84,3	23	14	13	19,5	13,8	12,5	50/50
051551	Black					14	9/16"	25	87,3	23	17	13	19,5	13,8	14,5	50/50
051611	Black					16	5/8"	25	87,3	23	17	13,5	19,5	13,8	16,5	50/50
052371	Black					8	5/16"	28	86	25	14	14	21	15,5	8,5	50/50
052431	Black					10	3/8"	28	86	25	14	14	21	15,5	10,5	50/50
052491	Black	120	(4/0)	120	(4/0)	12	1/2"	28	86	25	14	14	21	15,5	12,5	50/50
052551	Black					14	9/16"	28	89	25	15	16	21	15,5	14,5	50/50
052611	Black					16	5/8"	28	92	25	15	16	21	15,5	16,5	50/50
053371	Black					8	5/16"	31	87,5	28	13	11	23	17	8,4	25/25
053431	Black					10	3/8"	31	87,5	28	13	11	23	17	10,4	25/25
053491	Black	150	(300)	150	(300)	12	1/2"	31	93	28	14	13	23	17	12,5	25/25
053551	Black					14	9/16"	31	94	28	15,5	15	23	17	14,5	25/25
053611	Black					16	5/8"	31	96,5	30	15	16	23	17	16,5	50/50
053671	Black					20	3/4"	31	96,5	30	22	16	23	17	21	25/25
054491	Black					12	1/2"	35	103	30	16	14	26	19	13	25/25
054551	Black	185	(400)	185	(400)	14	9/16"	35	107	30	18	16	26	19	15	25/25
054611	Black					16	5/8"	35	109	30	19	17	26	19	17	25/25
054671	Black					20	3/4"	35	115	30	22	20	26	19	21	25/25

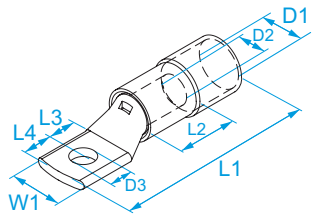
Code	Color	Rigid section (mm²)	Rigid section (AWG/kcmil)	Flexible section (mm²)	Flexible section (AWG/kcmil)	For screw Ø screw (mm)	For screw Stud size	W1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	D1 (mm)	D2 (mm)	D3 (mm)	
055491	Black	240	(500)	240	(500)	12	1/2"	39,5	110	35	16	14	30	21,5	13	25/25
055551	Black					14	9/16"	39,5	114	35	18	16	30	21,5	15	25/25
055611	Black					16	5/8"	39,5	116	35	19	17	30	21,5	17	25/25
055671	Black					20	3/4"	39,5	122	35	22	20	30	21,5	21	25/25
05649	Black	300	(600)	240	(500)	12	1/2"	44	131	38	22	20	33	24	13	25/25
05661	Black					16	5/8"	44	131	38	22	20	33	24	17	10/10
05667	Black					20	3/4"	44	131	38	22	20	33	24	21	10/10

HALOGEN FREE

125 °C

V0

TERMINAL LUGS FOR COPPER CONDUCTORS · NYLON INSULATED · BLACK · CLASS 6



TERMINAL MATERIAL: tinned copper

INSULATION MATERIAL: polyamide (PA 6.6)

INSULATION SELF-EXTINGUISHING GRADE: UL 94 V0

OPERATING TEMPERATURE: 125 °C max

CONDUCTOR CLASS: Class 6 according to EN 60228

APPLICATIONS: crimping of very flexible conductors designed to withstand repeated twists and bendings (eg robotic systems, welding machines, etc).

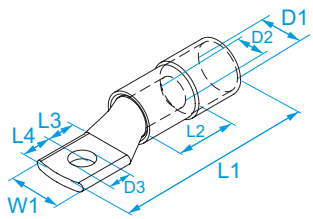
INSPECTION HOLE: yes

Code	Color	Rigid section (mm²)	Rigid section (AWG/kcmil)	Flexible section (mm²)	Flexible section (AWG/kcmil)	For screw Ø screw (mm)	For screw Stud size	W1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	D1 (mm)	D2 (mm)	D3 (mm)	
004191	Black					5	#10	9,8	37,1	9,5	6,5	5	8,2	5	5,3	100/100
004311	Black					6	#12	11,1	38,1	9,5	7	6	8,2	5	6,4	100/100
004371	Black	10	(8)	10	(8)	8	5/16"	14,9	42,3	9,5	9	8	8,2	5	8,4	100/100
004431	Black					10	3/8"	17,2	44,8	9,5	11	10	8,2	5	10,5	100/100
004491	Black					12	1/2"	15,5	44,7	9,5	9,3	9,3	8,2	5	12,2	100/100
005251	Black					5	#10	11,5	41,1	11	8,7	6,3	9	6	5,3	100/100
005311	Black					6	#12	11,5	39,9	11	7	6	9	6	6,4	100/100
005371	Black	16	(6)	16	(6)	8	5/16"	14,7	44,1	11	9	8	9	6	8,4	100/100
005431	Black					10	3/8"	17,5	48	11	11	10	9	6	10,5	100/100
005491	Black					12	1/2"	19,5	53,1	11	14	12	9	6	13,2	100/100
006251	Black					5	#10	14	49,2	13,5	10	7	11,5	7	5,2	100/100
006311	Black					6	#12	13,9	46,5	12,5	7	6	11,5	7	6,4	100/100
006371	Black	25	(4)	25	(4)	8	5/16"	15	50,7	12,5	9	8	11,5	7	8,4	100/100
006431	Black					10	3/8"	18	54,7	12,5	11	10	11,5	7	10,5	100/100
006491	Black					12	1/2"	21,2	59,7	12,5	14	12	11,5	7	13,2	100/100
007314	Black					6	#12	17	53,2	15	9,5	6	14	9,3	6,4	25/25
007374	Black	35	(2)	35	(2)	8	5/16"	17	57,7	15	10,5	10	14	9,3	8,5	25/25
007434	Black					10	3/8"	17	61,2	15	12	9,5	14	9,3	10,5	25/25
007494	Black					12	1/2"	17	62,2	15	14	11,5	14	9,3	13	25/25
008314	Black					6	#12	20,3	64,4	18	11	10	15,5	11	6,5	25/25
008374	Black	50	(1/0)	50	(1/0)	8	5/16"	20,3	64,4	18	11	10	15,5	11	8,5	25/25
008434	Black					10	3/8"	20,5	66,9	18	14,5	9,3	15,5	11	10,5	25/25
008494	Black					12	1/2"	24	66,9	18	15	12	15,5	11	12,5	25/25
009314	Black					6	#12	23,5	73	20,5	11	10	18	13	6,5	25/25
009374	Black					8	5/16"	23,5	73	20,5	11	10	18	13	8,5	25/25
009434	Black	70	(2/0)	70	(2/0)	10	3/8"	23,5	79,5	20,5	14,5	11,2	18	13	10,5	25/25
009494	Black					12	1/2"	23,5	79	20,5	13	13	18	13	12,5	25/25
009554	Black					14	9/16"	23,5	79	20,5	14	11,3	18	13	14,5	25/25
009614	Black					16	5/8"	23,5	79	20,5	14	11,3	18	13	16,5	25/25
051374	Black					8	5/16"	27,5	82,3	23	12,5	12,5	19,5	15	8,5	25/25
051434	Black					10	3/8"	27,5	82,3	23	12,5	12,5	19,5	15	10,5	25/25
051494	Black	95	(3/0)	95	(3/0)	12	1/2"	27,5	84,3	23	14	13	19,5	15	12,5	25/25
051554	Black					14	9/16"	25	87,3	23	17	13	19,5	15	14,5	50/50
051614	Black					16	5/8"	25	87,3	23	17	13,5	19,5	15	16,5	25/25
052374	Black					8	5/16"	31	87,5	28	13	11	23	17	8,4	25/25
052434	Black					10	3/8"	31	87,5	28	13	11	23	17	10,4	25/25
052494	Black	120	(4/0)	120	(4/0)	12	1/2"	31	93,5	28	14	13	23	17	12,5	25/25
052554	Black					14	9/16"	31	94	28	15,5	15	23	17	14,5	25/25
052614	Black					16	5/8"	31	96,5	30	15	16	23	17	16,5	25/25
053374	Black					8	5/16"	35	103	30	15	13	26	19	8,5	25/25
053434	Black					10	3/8"	35	103	30	18	16	26	19	10,5	25/25
053494	Black	150	(300)	150	(300)	12	1/2"	36	103	30	14	17	26	19	12,5	25/25
053554	Black					14	9/16"	36	107	30	16	16	26	19	14,5	25/25
053614	Black					16	5/8"	36	109	30	15	17	26	19	17	25/25
053674	Black					20	3/4"	36	115	30	22	17	26	19	21	25/25

Code	Color	Rigid section (mm²)	Rigid section (AWG/kcmil)	Flexible section (mm²)	Flexible section (AWG/kcmil)	For screw Ø screw (mm)	For screw Stud size	W1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	D1 (mm)	D2 (mm)	D3 (mm)	
054494	Black	185	(400)	185	(400)	12	1/2"	39	110	35	16	14	30	21,5	13	25/25
054554	Black					14	9/16"	39	114	35	18	16	30	21,5	15	25/25
054614	Black					16	5/8"	39	116	35	19	17	30	21,5	17	25/25
054674	Black					20	3/4"	39	119	35	22	20	30	21,5	21	25/25

HALOGEN FREE · 125 °C · V0 · SUPERFLEX

TERMINAL LUGS FOR COPPER CONDUCTORS · NYLON INSULATED · BLACK · SMALL PLATE



TERMINAL MATERIAL: tinned copper

INSULATION MATERIAL: polyamide (PA 6.6)

INSULATION SELF-EXTINGUISHING GRADE: UL 94 V0

OPERATING TEMPERATURE: 125 °C max

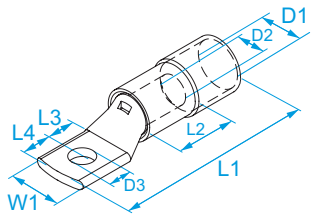
APPLICATIONS: the reduced width of the palm allows connection to equipment with lugs of dimensions not suitable for standard terminals.

INSPECTION HOLE: no

Code	Color	Section (mm²)	Section (AWG/kcmil)	For screw Ø screw (mm)	For screw Stud size	W1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	D1 (mm)	D2 (mm)	D3 (mm)	
917313	Black	35	(2)	6	#12	15	55	16	8	7	14	8,5	6,5	25/25
918313	Black	50	(1/0)	6	#12	15	58	18	8	7	15,5	10	6,5	25/25
918433	Black			10	3/8"	18,5	66,5	18	13,5	9,5	15,5	10	10,5	25/25
919313	Black	70	(2/0)	6	#12	11,6	67,8	20	8	7	18	12	6,5	25/25
919433	Black			10	3/8"	19	74	21	13	10	18	12	10,5	25/25
931373	Black	95	(3/0)	8	5/16"	19	76,5	24	12	8	19,5	13,8	8,5	25/25
931433	Black			10	3/8"	19	80,5	22	13	10	19,5	13,8	10,5	25/25
932373	Black	120	(4/0)	8	5/16"	19	83	22	12	9	21	15,5	8,5	25/25
932433	Black			10	3/8"	19	83	22	12	9	21	15,5	10,5	25/25
933373	Black	150	(300)	8	5/16"	19	93,5	30	17	9	23	17	8,4	25/25
933433	Black			10	3/8"	19	93,5	30	17	9	23	17	10,5	25/25
934493	Black	185	(400)	12	1/2"	31	110	32	17	14	26	19	13	25/25
935493	Black	240	(500)	12	1/2"	31,5	119	39	17	14	30	21,5	13	25/25

HALOGEN FREE · 125 °C · V0

TERMINAL LUGS FOR COPPER CONDUCTORS · NYLON INSULATED · COLOURED



For the same conductor section, insulants are available with different diameters to accommodate conductors with different insulant thicknesses.

TERMINAL MATERIAL: tinned copper

INSULATION MATERIAL: polyamide (PA 6.6)

INSULATION SELF-EXTINGUISHING GRADE: UL 94 V2

OPERATING TEMPERATURE: 130 °C max

CONDUCTOR CLASS: Class 1 and 2 (rigid) and Class 5 (flexible) according to EN 60228

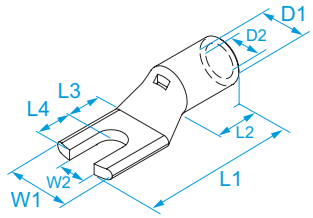
INSPECTION HOLE: yes

Code	Color	Section (mm²)	Section (AWG/kcmil)	For screw Ø screw (mm)	For screw Stud size	W1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	D1 (mm)	D2 (mm)	D3 (mm)	
001071	Red	1.5	(16)	3	#4	8	21,6	5	5	4	4,2	1,9	3,2	100/100
001191	Red			4	#8	8	21,6	5	5	4	4,2	1,9	4,2	100/100
001251	Red			5	#10	8	21,6	5	5	4	4,2	1,9	5,2	100/100
001311	Red			6	#12	10	23,6	5	6	5	4,2	1,9	6,3	100/100
002191	Blue	2.5	(14)	4	#8	8	23,7	7	5	4	4,8	2,4	4,2	100/1000
002251	Blue			5	#10	10	25,7	7	6	5	4,8	2,4	5,2	100/100
002311	Blue			6	#12	10	25,7	7	6	5	4,8	2,4	6,3	100/100
003191	Yellow	6	(10)	4	#8	10	29,8	9	6	5	6,6	3,5	4,2	100/100
003251	Yellow			5	#10	10	29,8	9	6	5	6,6	3,5	5,2	100/100
003311	Yellow			6	#12	10	29,8	9	6	5	6,6	3,5	6,3	100/100
003371	Yellow			8	5/16"	12	33,8	9	9	6	6,6	3,5	8,2	100/100
003431	Yellow			10	3/8"	15	38,8	9	11	9	6,6	3,5	10,2	100/100
00419	Red	10	(8)	5	#10	9,8	37,1	9,5	6,5	5	16	5	5,3	100/100
00420	Red			5	#10	9,8	44,8	9,5	6,5	5	14,8	5	5,3	100/100
00431	Red			6	#12	11,1	38,1	9,5	7	6	8,2	5	6,4	100/100
00432	Red			6	#12	11,1	45,8	9,5	7	6	14,8	5	6,4	100/100
00437	Red			8	5/16"	14,9	42,1	9,5	9	8	16	5	8,4	100/100
00438	Red			8	5/16"	14,9	49,8	9,5	9	8	14,8	5	8,4	100/100
00443	Red			10	3/8"	17,2	46,1	9,5	11	10	16	5	10,5	100/100
00444	Red			10	3/8"	17,2	53,8	9,5	11	10	14,8	5	10,5	100/100
00525	Blue	16	(6)	5	#10	11,5	43,3	11	8,7	6,3	9	6	5,3	100/100
00526	Red			5	#10	11,5	52,8	11	8,7	6,3	16	6	5,3	100/100
00531	Blue			6	#12	11,5	41,3	11	7	6	9	6	6,4	100/100
00532	Red			6	#12	11,5	51,8	11	7	6	16	6	6,4	100/100
00537	Blue			8	5/16"	14,7	45,5	11	9	8	9	6	8,4	100/100
00538	Red			8	5/16"	14,7	56	11	9	8	16	6	8,4	50/50
00543	Blue			10	3/8"	17,5	49,4	11	11	10	9	6	10,5	100/100
00544	Red			10	3/8"	17,5	59,9	11	11	10	16	6	10,5	100/100
00547	Red			12	1/2"	19,5	65	11	14	12	16	6	13,2	100/100
00549	Blue			12	1/2"	19,5	54,5	11	14	12	9	6	13,2	100/100
00625	Yellow	25	(4)	5	#10	14	49,4	13,5	10	7	11,5	7	5,2	100/100
00626	Red			5	#10	14	58,4	13,5	10	7	16,8	7	5,2	100/100
00631	Yellow			6	#12	13,9	46,5	12,5	7	6	11,5	7	6,4	100/100
00632	Red			6	#12	13,9	56	12,5	7	6	16,8	7	6,4	100/100
00637	Yellow			8	5/16"	15	50,7	12,5	9	8	11,5	7	8,4	100/100
00638	Red			8	5/16"	15	60,2	12,5	9	8	16,8	7	8,4	25/25
00643	Yellow			10	3/8"	18	54,7	12,5	11	10	11,5	7	10,5	100/100
00644	Red			10	3/8"	18	64,2	12,5	11	10	16,8	7	10,5	100/100
00649	Yellow			12	1/2"	21,2	59,7	12,5	14	12	11,5	7	13,2	100/100
006492	Red			12	1/2"	21,2	69,2	12,5	14	12	16,8	7	13,2	25/25
00731	Red	35	(2)	6	#12	16,4	50,3	13	7	6	14	8,5	6,4	100/100
00732	Red			6	#12	16,4	58,8	13	7	6	18,7	8,5	6,4	100/100
00737	Red			8	5/16"	16,8	54,1	13	9	8	14	8,5	8,4	100/100
00738	Red			8	5/16"	16,8	62,3	13	9	8	18,7	8,5	8,4	100/100
00743	Red			10	3/8"	18,6	58,3	13	11	10	14	8,5	10,5	100/100
00744	Red			10	3/8"	18,6	66,5	13	11	10	18,7	8,5	10,5	100/100
00749	Red			12	1/2"	20,2	63,3	13	14	12	14	8,5	13,2	100/100
00752	Red			12	1/2"	20,2	71,5	13	14	12	18,7	8,5	13,2	100/100

Code	Color	Section (mm²)	Section (AWG/kcmil)	For screw Ø screw (mm)	For screw Stud size	W1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	D1 (mm)	D2 (mm)	D3 (mm)	
00831	White	50	(1/0)	6	#12	18,7	62,4	18	9	9	15,5	10	6,4	100/100
00832	Red			6	#12	18,7	69,7	18	9	9	20,8	10	6,4	100/100
00837	White			8	5/16"	18,7	64,4	18	10	10	15,5	10	8,4	100/100
00838	Red			8	5/16"	18,7	71,7	18	10	10	20,8	10	8,4	100/100
00843	White			10	3/8"	18,7	66,4	18	11	11	15,5	10	10,5	50/100
00844	Red			10	3/8"	18,7	73,7	18	11	11	20,8	10	10,5	50/100
00849	White			12	1/2"	21	69,9	18	15,3	12	15,5	10	12,5	100/100
00852	Red			12	1/2"	21	77,2	18	15,3	12	20,8	10	12,5	100/100
00855	White			14	9/16"	22	69,9	17	15,3	12	15,5	10	14,5	100/100
00856	Red			14	9/16"	22	77,2	17	15,3	12	20,8	10	14,5	100/100
00937	Blue	70	(2/0)	8	5/16"	21,8	72,3	20,5	11	10	22	12	8,5	100/100
00943	Blue			10	3/8"	21,8	78,3	20,5	14,5	11,2	22	12	10,5	100/100
00949	Blue			12	1/2"	22	78,3	20,5	13	13	22	12	12,5	100/100
00955	Blue			14	9/16"	22	78,3	20,5	14	11,3	22	12	14,5	100/100
00961	Blue			16	5/8"	22	78,3	20,5	14	11,3	22	12	16,5	100/100
05137	White	95	(3/0)	8	5/16"	25	76,8	23	12,5	12,5	26	13,8	8,5	50/50
05143	White			10	3/8"	25	82,3	23	12,5	12,5	26	13,8	10,5	50/50
05149	White			12	1/2"	25	84,3	23	14	13	26	13,8	12,5	50/50
05155	White			14	9/16"	25	87,3	23	17	13	26	13,8	14,5	50/50
05161	White			16	5/8"	25	87,3	23	17	13,5	26	13,8	16,5	25/25
05237	Red	120	(4/0)	8	5/16"	28	86	25	14	14	27	15,5	8,5	25/25
05243	Red			10	3/8"	28	86	25	14	14	27	15,5	10,5	25/25
05249	Red			12	1/2"	28	86	25	14	14	27	15,5	12,5	25/25
05255	Red			14	9/16"	28	89	25	25	26	27	15,5	14,5	50/50
05261	Red			16	5/8"	28	92	25	15	16	27	15,5	16,5	25/25
05337	Blue	150	(300)	8	5/16"	31	87,5	28	13	11	29	17	8,4	25/25
05343	Blue			10	3/8"	31	87,5	28	13	11	29	17	10,4	25/25
05349	Blue			12	1/2"	31	93	28	14	13	29	17	12,5	25/25
05355	Blue			14	9/16"	31	94	28	15,5	15	29	17	14,5	25/25
05361	Blue			16	5/8"	31	96,5	30	15	16	29	17	16,5	50/50
05367	Blue			20	3/4"	31	96,5	30	22	16	29	17	21	25/25
05449	Red	185	(400)	12	1/2"	35	103	30	16	14	32	19	13	25/25
05455	Red			14	9/16"	35	107	30	18	16	32	19	15	25/25
05461	Red			16	5/8"	35	109	30	19	17	32	19	17	25/25
05467	Red			20	3/4"	35	115	30	22	20	32	19	21	25/25
05549	Red	240	(500)	12	1/2"	39,5	110	35	16	14	36	21,5	13	25/25
05555	Red			14	9/16"	39,5	114	35	18	16	36	21,5	15	25/25
05561	Red			16	5/8"	39,5	116	35	19	17	36	21,5	17	25/25
05567	Red			20	3/4"	39,5	112	35	22	20	36	21,5	21	25/25

HALOGEN FREE 130 °C EASYENTRY

TERMINAL LUGS FOR COPPER CONDUCTORS · UNINSULATED · FORK



TERMINAL MATERIAL: tinned copper
OPERATING TEMPERATURE: from -50 °C to +150 °C
INSPECTION HOLE: yes

Code	Section (mm²)	Section (AWG)	For screw Ø screw (mm)	For screw Stud size	W1 (mm)	W2 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	D1 (mm)	D2 (mm)	
01420	10	(8)	4	#8	10	4,3	30,5	9,5	8	7	7	5	100/100
01426			5	#10	10	5,3	30,5	9,5	8	7	7	5	100/100
01523	16	(6)	4	#8	11,5	4,3	34	11	9,5	8	8	6	100/100
01526			5	#10	11,5	5,3	34	11	9,5	8	8	6	100/100

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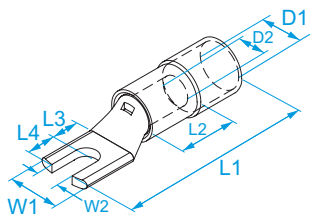
TERMINAL LUGS FOR COPPER CONDUCTORS · NYLON INSULATED · BLACK · FORK

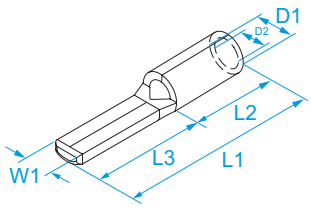


TERMINAL MATERIAL: tinned copper
INSULATION MATERIAL: polyamide (PA 6.6)
INSULATION SELF-EXTINGUISHING GRADE: UL 94 V0
OPERATING TEMPERATURE: 125 °C max
INSPECTION HOLE: yes

Code	Color	Section (mm²)	Section (AWG)	For screw Ø screw (mm)	For screw Stud size	W1 (mm)	W2 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	D1 (mm)	D2 (mm)	
004201	Black	10	(8)	4	#8	10	4,3	42	9,5	8	7	8,2	5	100/100
004261	Black			5	#10	10	5,3	42	9,5	8	7	8,2	5	100/100
005231	Black	16	(6)	4	#8	11,5	4,3	47	11	9,5	8	9	6	100/100
005261	Black			5	#10	11,5	5,3	47	11	9,5	8	9	6	100/100

HALOGEN FREE 125 °C V0

TERMINAL LUGS FOR COPPER CONDUCTORS · UNINSULATED · PIN · SILVER ALLOY BRAZED DIN 46234



TERMINAL MATERIAL: tinned copper
SEAM: brazed silver alloy
OPERATING TEMPERATURE: from -50 °C to +150 °C

Code	Section (mm²)	Section (AWG)	W1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	D1 (mm)	D2 (mm)	
01450	10	(8)	4,3	22	8	12	7	4,5	100/100
01550	16	(6)	5,5	25	10	13	8,5	5,8	100/100
01650	25	(4)	6,8	33,5	13,5	15	9,6	6,7	100/100
01750	35	(2)	8	40,5	16	24,5	11,8	8,4	100/100
01850	50	(1/0)	9,5	45	19	26	13,6	9,6	100/100
01950	70	(2/0)	11	55	24	31	15,8	11,4	50/50
02050	95	(3/0)	12,5	55	24	31	18,9	13,5	50/50

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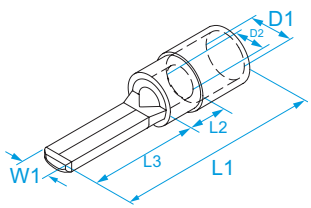
TERMINAL LUGS FOR COPPER CONDUCTORS · NYLON INSULATED · BLACK · PIN



TERMINAL MATERIAL: tinned copper
INSULATION MATERIAL: polyamide (PA 6.6)
INSULATION SELF-EXTINGUISHING GRADE: UL 94 V0
OPERATING TEMPERATURE: 125 °C max

Code	Color	Section (mm²)	Section (AWG)	W1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	D1 (mm)	D2 (mm)	
00450	Black	10	(8)	4,3	35,5	8	12	8,2	4,5	100/100
00550	Black	16	(6)	5,5	38	10	13	9	5,8	100/100
00650	Black	25	(4)	6,8	47,5	13,5	15	11,5	6,7	100/100

HALOGEN FREE 125 °C V0

INSULATED END-SLEEVES · SINGLE CABLE · 0.5÷2.5

ASSORTMENT TYPE: box

Code	Description	Cable type	Section (mm²)	Section from (AWG)
00421	Plastic box with insulated single cable end-sleeves	single	0.5 ÷ 2.5	(20 - 14)

Component	Description	Pcs / code
00601	Insul End Sleeves 0.5x8 White	50
00506	Insul End Sleeves 2.5x8 Blu	50
00602	Insul End Sleeves 0.75x8 Grey	100
00603	Insul End Sleeves 1x8 Red	100
00604	Insul End Sleeves 1.5x8 Black	100

INSULATED END-SLEEVES · SINGLE CABLE · 4÷16

ASSORTMENT TYPE: box

Code	Description	Cable type	Section (mm²)	Section from (AWG)
00422	Plastic box with insulated single cable end-sleeves	single	4 ÷ 16	(12 - 6)

Component	Description	Pcs / code
00508	Insul End Sleeves 4x10 Grey	50
00610	Insul End Sleeves 6x12 Yellow	20
00612	Insul End Sleeves 10x12 Red	20
00614	Insul End Sleeves 16x12 Blue	10

INSULATED END-SLEEVES · DOUBLE CABLE · 2x0.75÷2.5

ASSORTMENT TYPE: box

Code	Description	Cable type	Section (mm²)	Section from (AWG)
00423	Plastic box with insulated double cable end-sleeves	double	0.75 ÷ 2.5	(18 - 14)

Component	Description	Pcs / code
00652	Twin End Sleeves 2x0.75-L8 Grey	50
00654	Twin End Sleeves 2x1-L8 Red	50
00656	Twin End Sleeves 2x1.5-L8 Black	50
00558	Twin End Sleeves 2x2.5-L10 Blue	50

INSULATED END-SLEEVES · DOUBLE CABLE · 2x4÷16

ASSORTMENT TYPE: box

Code	Description	Cable type	Section (mm²)	Section from (AWG)
00424	Plastic box with insulated double cable end-sleeves	double	4 ÷ 16	(12 - 6)

Component	Description	Pcs / code
00560	Twin End Sleeves 2x4-L12 Grey	20
00661	Twin End Sleeves 2x6-L14 Yellow	10
00662	Twin End Sleeves 2x10-L14 Red	10
00663	Twin End Sleeves 2x16-L14 Blue	5

INSULATED COPPER TERMINAL LUGS 0.25÷6 + 520 CRIMPING TOOL

ASSORTMENT TYPE: with crimping tool

Code	Description	Section (mm²)	Section from (AWG)
80411	Assortment of insulated copper terminals + crimping tool 520	0.25 ÷ 6	(22 - 10)

Component	Description	Pcs / code
520	Crimping Tool x Term.0.25-6	1
00108	Insul Fork Term. 1.5 F3	8
00119	Insul Ring Term. 1.5 F4	8
00120	Insul Fork Term. 1.5 F4	8
00150	Insul Round Pin 1.5	8
00220	Insul Fork Term. 2.5 F4	8
00225	Insul Ring Term. 2.5 F5	8
00250	Insul Round Pin 2.5	8
00325	Insul Ring Term. 6 F5	8
00331	Insul Ring Term. 6 F6	8
00350	Insul Round Pin 6	8

INSULATED END-SLEEVES 0.25÷2.5 + 540 CRIMPING TOOL

ASSORTMENT TYPE: with crimping tool

Code	Description	Section (mm²)	Section from (AWG)
80415	Assortment of insulated end-sleeve terminals + crimping tool 540	0.25 ÷ 2.5	(22 - 14)

Component	Description	Pcs / code
540	Crimping tool x End-Sleeves 0.25-2.5	1
00500	Insul End Sleeves 0.25x8 Light Blue	25
00501	Insul End Sleeves 0.5x8 Orange	25
00502	Insul End Sleeves 0.75x8 White	25
00503	Insul End Sleeves 1x8 Yellow	25
00504	Insul End Sleeves 1.5x8 Red	25
005041	Insul End Sleeves 1.5x10 Red	25
00506	Insul End Sleeves 2.5x8 Blue	25
005061	Insul End Sleeves 2.5x12 Blue	25
005002	Insul End Sleeves 0.34x8 Turque	25
00507	Insul End Sleeves 2.5x18 Blue	25

INSULATED END-SLEEVES 0.5÷16 + 541 CRIMPING TOOL

ASSORTMENT TYPE: with crimping tool

Code	Description	Section (mm²)	Section from (AWG)
80416	Assortment of insulated end-sleeve terminals + crimping tool 541	0.5 ÷ 16	(20 - 6)

Component	Description	Pcs / code
541	Crimping Tool x End-Sleeves 0.5-16	1
00501	Insul End Sleeves 0.5x8 Orange	25
00502	Insul End Sleeves 0.75x8 White	25
00503	Insul End Sleeves 1x8 Yellow	25
00504	Insul End Sleeves 1.5x8 Red	25
005041	Insul End Sleeves 1.5x10 Red	25
00506	Insul End Sleeves 2.5x8 Blu	25
00508	Insul End Sleeves 4x10 Grey	25
00510	Insul End Sleeves 6x12 Black	10
00512	Insul End Sleeves 10x12 Ivory	10
00514	Insul End Sleeves 16x12 Green	5

INSULATED QUICK-CONECTORS 0.25÷6 + 520 CRIMPING TOOL

ASSORTMENT TYPE: with crimping tool

Code	Description	Section (mm²)	Section from (AWG)
80412	Assortment of quick-connect terminals + crimping tool 520	0.25 ÷ 6	(22 - 10)

Component	Description	Pcs / code
520	Crimping Tool x Term.0.25-6	1
00190	Insul Female 1.5 6.3x0.8	5
00180	Quick Connect Term Insul Male 1.5 6.30x0.8	5
00130	Insul cylinder plug male 1,5 D4	5
00140	Insul cylinder plug female 1,5 D4	5
00290	Insul Female 2.5 6.3x0.8	5
00280	Quick Connect Term Insul Male 2.5 6.3x0.8	5
00298	Quick Connect Term Insul Male + Female 2,5 6,3x0,8	5
00391	Insul Female 6 6.3x0.8	5
00380	Quick Connect Term Insul Male 6 6.3x0.8	5
00360	Insul Butt Connector 6	5

UNISNSULATED COPPER TERMINAL LUGS 0.25÷6 + 535 CRIMPING TOOL

ASSORTMENT TYPE: in double case, with automatic crimping tool

Code	Description	Section (mm²)	Section from (AWG)
80403	Assortment in plastic case of uninsulated copper terminals + crimping tool 535	0.25 ÷ 6	(22 - 10)

Component	Description	Pcs / code
535	Crimping Tool x Uninsulated Terminals 0,5-10	1
B2025	Ny Cable Ties 200x2.5 Nat	50
01107	Ring Term 1,5F3	15
01108	Fork Term 1,5F3	15
01119	Ring Term 1,5F4	15
01120	Fork Term 1,5F4	15
01125	Ring Term 1,5F5	15
01150	Pin Term 1,5	15
01219	Ring Term 2,5F4	15
01220	Fork Term 2,5F4	15
01225	Ring Term 2,5F5	15
01226	Fork Term 2,5F5	15
01250	Pin Term 2,5	15
01325	Ring Term 6F5	15
01326	Fork Term 6F5	15
01331	Ring Term 6F6	15
01160	Butt Connector 1,5	15
01260	Butt Connector 2,5	15
01360	Butt Connector 6	15

INSULATED COPPER TERMINAL LUGS 0.25÷6 + 534 CRIMPING TOOL

ASSORTMENT TYPE: in double case, with automatic crimping tool

Code	Description	Section (mm^2)	Section from (AWG)
80401	Assortment in plastic case of insulated copper terminals + crimping tool 534	0.25 ÷ 6	(22 - 10)

Component	Description	Pcs / code
534	Crimping Tool x Ins.term. 0.5-6	1
B2025	Ny Cable Ties 200x2.5 Nat	50
00107	Insul Ring Term. 1.5F3	15
00108	Insul Fork Term. 1.5F3	15
00119	Insul Ring Term. 1.5F4	15
00120	Insul Fork Term. 1.5F4	15
00125	Insul Ring Term. 1.5F5	15
00150	Insul Round Pin 1.5	15
00219	Insul Ring Term. 2.5F4	15
00220	Insul Fork Term. 2.5F4	15
00225	Insul Ring Term. 2.5F5	15
00226	Insul Fork Term. 2.5F5	15
00250	Insul Round Pin 2.5	15
00325	Insul Ring Term. 6F5	15
00326	Insul Fork Term. 6F5	15
00331	Insul Ring Term. 6F6	15
00160	Insul Butt Connector Red 1.5	15
00260	Insul Butt Connector Blue 2.5	15
00360	Insul Butt Connector 6	15

INSULATED END-SLEEVES 0.14÷4 + 537 CRIMPING TOOL

ASSORTMENT TYPE: in double case, with automatic crimping tool

Code	Description	Section (mm^2)	Section from (AWG)
80405	Assortment in plastic case of insulated end-sleeve terminals + crimping tool 537	0.14 ÷ 4	(26 - 12)

Component	Description	Pcs / code
537	Crimping Tool x End-Sleeves 0.5-4	1
B2025	Ny Cable Ties 200x2.5 Nat	50
005001	Insul End Sleeves 0.14x8 Grey	50
00500	Insul End Sleeves 0.25x8 Light Blue	50
005002	Insul End Sleeves 0.34x8 Turque	50
00502	Insul End Sleeves 0.75x8 White	50
00503	Insul End Sleeves 1x8 Yellow	50
00504	Insul End Sleeves 1.5x8 Red	50
005041	Insul End Sleeves 1.5x10 Red	50
00506	Insul End Sleeves 2.5x8 Blue	50
00508	Insul End Sleeves 4x10 Grey	50
00501	Insul End Sleeves 0.5x8 Orange	50
00505	Insul End Sleeves 1.5x18 Red	25
005061	Insul End Sleeves 2.5x12 Blue	25
00507	Insul End Sleeves 2.5x18 Blue	25
005081	Insul End Sleeves 4x12 Grey	25
00509	Insul End Sleeves 4x18 Grey	25

INSULATED QUICK-CONECTORS 0.5÷2.5 + SLEEVES + 531 CRIMPING TOOL

ASSORTMENT TYPE: in double case, with automatic crimping tool

Code	Description	Section (mm^2)	Section from (AWG)
80404	Assortment in plastic case of uninsulated quick-connect terminals + sleeves + crimping tool 531	0.5 ÷ 2.5	(20 - 14)

Component	Description	Pcs / code
531	Crimping Tool x barrel brass terminals 0.5-6	1
B2025	Ny Cable Ties 200x2.5 Nat	50
91103	Insul Ring Brass F3 0.5-1	10
91104	Insul Ring Brass F4 0.5-1	10
91105	Insul Ring Brass F5 0.5-1	10
91203	Insul Ring Brass F3 1-2.5	10
91204	Insul Ring Brass F4 1-2.5	10
91205	Insul Ring Brass F5 1-2.5	10
01190	Female 1,5 6,3x0,8	10
01180	Male 1 6,3x0,8	10
01290	Female 2,5 6,3x0,8	10
01280	Male 2,5 6,3x0,8	10
01198	Piggy-Backs 1 6,3x0,8	10
01298	Piggy-Backs 2,5 6,3x0,8	10
01295	Female Flag 2 6,3x0,8	10
01017	Sleevs For Femal 6,3 Pvc	10
01005	Male 45°	10
01014	Double Male	10
01016	Sleevs For Male	10

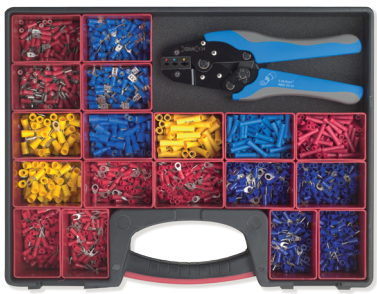
INSULATED QUICK-CONECTORS 0.25÷6 + 534 CRIMPING TOOL

ASSORTMENT TYPE: in double case, with automatic crimping tool

Code	Description	Section (mm^2)	Section from (AWG)
80402	Assortment in plastic case of insulated quick-connect terminals + crimping tool 534	0.25 ÷ 6	(22 - 10)

Component	Description	Pcs / code
534	Crimping Tool x Ins.term.0.5-6	1
B2025	Ny Cable Ties 200x2.5 Nat	50
00390	Insul Femal 1,5 2,8x0,8	10
00190	Insul Femal 1,5 6,3x0,8	10
00180	Insul Male 1,5 6,3x0,8	10
00198	Insul Piggy-Backs 1,5 6,3x0,8	10
00130	Insul Cylinder Plug Male 1,5 D4	10
00140	Insul Cylinder Plug Female 1,5 D4	10
00290	Insul Femal 2,5 6,3x0,8	10
00280	Insul Male 2,5 6,3x0,8	10
00230	Insul Bullet 2,5 D5	10
00240	Insul Socket 2,5 D5	10
00298	Insul Piggy-Backs 2,5 6,3x0,8	10
00391	Insul Femal 6 6,3x0,8	10
00380	Insul Male 6 6,3x0,8	10
00260	Insul Butt Connector 2.5	10
00270	End Connector 1.5-2.5	10
00370	End Connector 2.5-6	10
00360	Insul Butt Connector 6	10

INSULATED COPPER TERMINAL LUGS 0.25÷6 + 534 CRIMPING TOOL



ASSORTMENT TYPE: with automatic crimping tool, with removable boxes, in plastic case

Code	Description	Section (mm²)	Section from (AWG)
00411	Assortment in plastic case with removable boxes of insulated copper terminals + crimping tool 534	0.25 ÷ 6	(22 - 10)

Component	Description	Pcs / code
534	Crimping Tool x Ins.term. 0.5-6	1
00119	Insul Ring Term. 1.5F4	100
00120	Insul Fork Term. 1.5F4	100
00125	Insul Ring Term. 1.5F5	100
00150	Insul Round Pin 1.5	100
00219	Insul Ring Term. 2.5F4	100
00220	Insul Fork Term. 2.5F4	100
00225	Insul Ring Term. 2.5F5	100
00250	Insul Round Pin 2.5	100
00160	Insul Butt Connector Red 1.5	100
00260	Insul Butt Connector Blue 2.5	100
00190	Insul Femal 1,5 6,3x0,8	100
00290	Insul Femal 2,5 6,3x0,8	100
00180	Insul Male 1,5 6,3x0,8	100
00280	Insul Male 2,5 6,3x0,8	100
00325	Insul Ring Term. 6F5	50
00331	Insul Ring Term. 6F6	50
00360	Insul Butt Connector 6	50
00291	Tot Insul Femal 2.5 6.3x0.8	50
00405	Plastic case with removable boxes	1

INSULATED END-SLEEVES 0.75÷16 + 541 CRIMPING TOOL

ASSORTMENT TYPE: with automatic crimping tool, with removable boxes, in plastic case

Code	Description	Section (mm^2)	Section from (AWG)
00412	Assortment in plastic case with removable boxes of single and double cable insulated end-sleeve terminals + crimping tool 541	0.75 ÷ 16	(18 - 6)

Component	Description	Pcs / code
541	Tool x End-Sleeves 0.5-16	1
00502	Insul End Sleeves 0.75x8 White	500
00503	Insul End Sleeves 1x8 Yellow	500
00504	Insul End Sleeves 1.5x8 Red	500
00506	Insul End Sleeves 2.5x8 Blu	250
00508	Insul End Sleeves 4x10 Grey	200
00552	Twin End Sleeves 2x0.75-L8 White	200
00554	Twin End Sleeves 2x1-L8 Yellow	200
00556	Twin End Sleeves 2x1.5-L8 Red	200
00510	Insul End Sleeves 6x12 Black	100
00558	Twin End Sleeves 2x2.5-L9 Blu	100
00560	Twin End Sleeves 2x4-L12 Grey	100
00512	Insul End Sleeves 10x12 Ivory	50
00514	Insul End Sleeves 16x12	50
00561	Twin End Sleeves 2x6-L14 Black	50
00405	Plastic case with removable boxes	1

INSULATED END-SLEEVES 0.75÷16 + 53816 CRIMPING TOOL

ASSORTMENT TYPE: with automatic crimping tool, with removable boxes, in plastic case

Code	Description	Section (mm^2)	Section from (AWG)
00417	Assortment in plastic case with removable boxes of single and double cable insulated end-sleeve terminals + crimping tool 53816	0.75 ÷ 16	(18 - 6)

Component	Description	Pcs / code
53816	Crimping Tool x End sleeves 0.08-16	1
00502	Insul End Sleeves 0.75x8 White	500
00503	Insul End Sleeves 1x8 Yellow	500
00504	Insul End Sleeves 1.5x8 Red	500
00506	Insul End Sleeves 2.5x8 Blue	250
00508	Insul End Sleeves 4x10 Grey	200
00552	Twin End Sleeves 2x0.75-L8 White	200
00554	Twin End Sleeves 2x1-L8 Yellow	200
00556	Twin End Sleeves 2x1.5-L8 Red	200
00510	Insul End Sleeves 6x12 Black	100
00558	Twin End Sleeves 2x2.5-L9 Blue	100
00560	Twin End Sleeves 2x4-L12 Grey	100
00512	Insul End Sleeves 10x12 Ivory	50
00514	Insul End Sleeves 16x12	50
00561	Twin End Sleeves 2x6-L14 Black	50
00405	Plastic case with removable boxes	1

INSULATED END-SLEEVES 0.75÷16 + 5382 CRIMPING TOOL

ASSORTMENT TYPE: with automatic crimping tool, with removable boxes, in plastic case

Code	Description	Section (mm^2)	Section from (AWG)
00413	Assortment in plastic case with removable boxes of single and double cable insulated end-sleeve terminals + crimping tool 5382	0.75 ÷ 16	(18 - 6)

Component	Pcs / code	
5382	Crimping Tool x End-Sleeves 0.008-16	1
00502	Insul End Sleeves 0.75x8 White	500
00503	Insul End Sleeves 1x8 Yellow	500
00504	Insul End Sleeves 1.5x8 Red	500
00506	Insul End Sleeves 2.5x8 Blue	250
00508	Insul End Sleeves 4x10 Grey	200
00552	Twin End Sleeves 2x0.75-L8 White	200
00554	Twin End Sleeves 2x1-L8 Yellow	200
00556	Twin End Sleeves 2x1.5-L8 Red	200
00510	Insul End Sleeves 6x12 Black	100
00558	Twin End Sleeves 2x2.5-L9 Blue	100
00560	Twin End Sleeves 2x4-L12 Grey	100
00512	Insul End Sleeves 10x12 Ivory	50
00514	Insul End Sleeves 16x12	50
00561	Twin End Sleeves 2x6-L14 Black	50
00405	Plastic case with removable boxes	1

INSULATED COPPER TERMINAL LUGS 0.25÷6 + 53P02H CRIMPING TOOL

ASSORTMENT TYPE: with automatic crimping tool, with removable boxes, in plastic case

Code	Description	Section (mm²)	Section from (AWG)
00441	Assortment in plastic case with removable boxes if insulated copper terminals + crimping tool 53P02H	0.25 ÷ 6	(22 - 10)

Component	Description	Pcs / code
53P02H	Crimping Tool CRIMPAR for insulated terminals 0.25-6	1
00119	Insul Ring Term. 1.5F4	100
00120	Insul Fork Term. 1.5F4	100
00125	Insul Ring Term. 1.5F5	100
00150	Insul Round Pin 1,5	100
00219	Insul Ring Term. 2.5F4	100
00220	Insul Fork Term. 2.5F4	100
00225	Insul Ring Term. 2.5F5	100
00250	Insul Round Pin 2,5	100
00160	Insul Butt Connector 1.5	100
00260	Insul Butt Connector 2.5	100
00190	Insul Female 1.5 6.3x0.8	100
00290	Insul Female 2.5 6.3x0.8	100
00180	Quick Connect Term Insul Male 1.5 6.30x0.8	100
00280	Quick Connect Term Insul Male 2.5 6.3x0.8	100
00325	Insul Ring Term. 6F5	50
00331	Insul Ring Term. 6F6	50
00360	Insul Butt Connector 6	50
00291	Tot Insul Femal 2.5 6.3x0.8	50
00405	Plastic case with removable boxes	1

INSULATED END-SLEEVES 0.75÷16 + 53P02E CRIMPING TOOL + 53M2E1 DIE

ASSORTMENT TYPE: with automatic crimping tool, with removable boxes, in plastic case

Code	Description	Section (mm²)	Section from (AWG)
00442	Assortment in plastic case with removable boxes of single and double cable insulated end-sleeve terminals + crimping tool 53P02E + DIE 53M2E1	0.75 ÷ 16	(18 - 6)

Component	Description	Pcs / code
53P02E	Crimping Tool CRIMPAR for insulated terminals 0,5-4	1
53M2E1	Die for end-sleeve terminals 6-16	1
00502	Insul End Sleeves 0.75x8 White	500
00503	Insul End Sleeves 1x8 Yellow	500
00504	Insul End Sleeves 1.5x8 Red	500
00506	Insul End Sleeves 2.5x8 Blue	250
00508	Insul End Sleeves 4x10 Grey	200
00552	Twin End Sleeves 2x0.75-L8 White	200
00554	Twin End Sleeves 2x1-L8 Yellow	200
00556	Twin End Sleeves 2x1.5-L8 Red	200
00510	Insul End Sleeves 6x12 Black	200
00558	Twin End Sleeves 2x2.5-L9 Blue	100
00560	Twin End Sleeves 2x4-L12 Grey	100
00512	Insul End Sleeves 10x12 Ivory	50
00514	Insul End Sleeves 16x12	50
00561	Twin End Sleeves 2x6-L14 Black	50
00405	Plastic case with removable boxes	1

INSULATED COPPER TERMINAL LUGS 0.25÷6 + INSULATED END-SLEEVES 0.75÷16 + 5305 CRIMPING TOOL

ASSORTMENT TYPE: in box, with automatic crimping tool

Code	Description
00600	Assortment of insulated copper terminals lugs + insulated end-sleeves + crimping tool and 5 dies, in case with boxes for small components

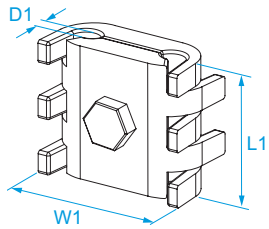
Component	Description	Pcs / code
1818	Case with boxes for small components	1
5305	Crimping tool and 5 interchangeable dies	1
00119	Insul Ring Term. 1.5F4	100
00120	Insul Fork Term. 1.5F4	100
00125	Insul Ring Term. 1.5F5	100
00150	Insul Round Pin 1.5	100
00219	Insul Ring Term. 2.5F4	100
00220	Insul Fork Term. 2.5F4	100
00225	Insul Ring Term. 2.5F5	100
00250	Insul Round Pin 2.5	100
00260	Insul Butt Connector Blue 2.5	100
00190	Insul Femal 1,5 6,3x0,8	100
00290	Insul Femal 2,5 6,3x0,8	100
00180	Insul Male 1,5 6,3x0,8	100
00280	Insul Male 2,5 6,3x0,8	100
00325	Insul Ring Term. 6F5	50
00331	Insul Ring Term. 6F6	50
00360	Insul Butt Connector 6	50
00291	Tot Insul Femal 2.5 6.3x0.8	50
00502	Insul End Sleeves 0.75x8 White	500
00503	Insul End Sleeves 1x8 Yellow	500
00504	Insul End Sleeves 1.5x8 Red	500
00506	Insul End Sleeves 2.5x8 Blue	250
00508	Insul End Sleeves 4x10 Grey	200
00552	Twin End Sleeves 2x0.75-L8 White	200
00554	Twin End Sleeves 2x1-L8 Yellow	200
00556	Twin End Sleeves 2x1.5-L8 Red	200
00510	Insul End Sleeves 6x12 Black	100
00558	Twin End Sleeves 2x2.5-L9 Blue	100
00560	Twin End Sleeves 2x4-L12 Grey	100
00512	Insul End Sleeves 10x12 Ivory	50
00514	Insul End Sleeves 16x12	50
00561	Twin End Sleeves 2x6-L14 Black	50

SCREW CONNECTIONS

BRASS CLAMPING LUGS & EARTH LUGS pag. 102

BRASS NICKEL PLATES TERMINAL LUGS pag. 104

UNIVERSAL 1-BOLT COMB LUGS



MATERIAL: die-cast brass

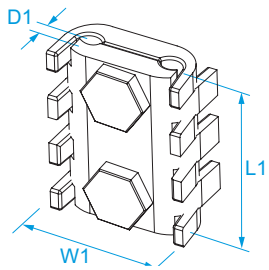
SECTION: main and derived conductor of the same section

OPERATING TEMPERATURE: from -50 °C to +150 °C

APPLICATIONS: grounding systems, to connect copper wire ropes or copper conductors suitable for earthing

Code	Section (mm²)	Cable diameter (mm)	W1 (mm)	L1 (mm)	Screw	
5251	6 ÷ 16	3 ÷ 5	25,5	20,5	M6	100/100

UNIVERSAL 2-BOLT COMB LUGS



MATERIAL: die-cast brass

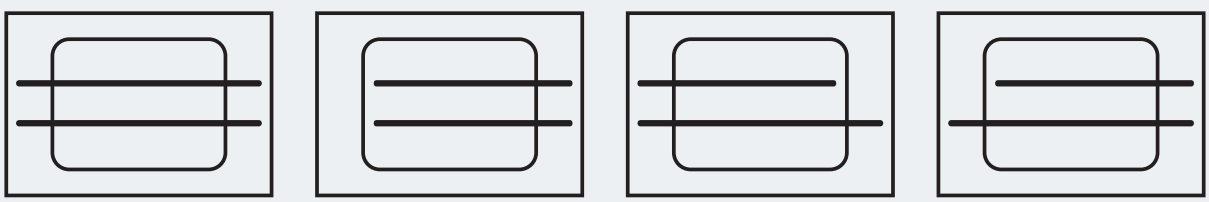
SECTION: main and derived conductor of the same or different section

OPERATING TEMPERATURE: from -50 °C to +150 °C

APPLICATIONS: grounding systems, to connect copper wire ropes or copper conductors suitable for earthing

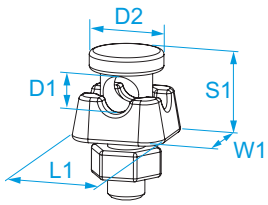
Code	Section (mm²)	Cable diameter (mm)	W1 (mm)	L1 (mm)	Screw	
5261	6 ÷ 16	3 ÷ 5	25	32	M6	100/100
5262	25 ÷ 50	6 ÷ 8	32	38	M8	100/100
5263	50 ÷ 70	9 ÷ 12	42	45	M8	50/50
5264	70 ÷ 95	12 ÷ 14	53	53	M10	25/25
5265	95 ÷ 150	14 ÷ 16	54,5	57,5	M10	20/20
5266	150 ÷ 300	16 ÷ 22	66	67	M12	10/10

CONNECTION TYPES



1-BOLT EARTHING LUGS

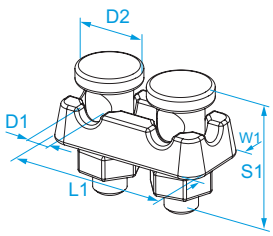
MATERIAL: die-cast aluminium
OPERATING TEMPERATURE: from -50 °C to +150 °C



Code	Section (mm²)	D1 (mm)	D2 (mm)	W1 (mm)	L1 (mm)	S1 (mm)	Screw	
22	50	10	21	26	26,5	41	M10	25/25

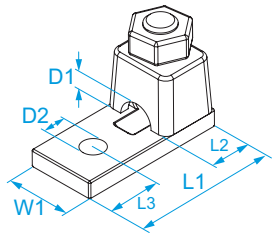
2-BOLT EARTHING LUGS

MATERIAL: die-cast aluminium
OPERATING TEMPERATURE: from -50 °C to +150 °C



Code	Section (mm²)	D1 (mm)	D2 (mm)	W1 (mm)	L1 (mm)	S1 (mm)	Screw	
23	50	10	21	26	51,5	41	M10	25/50

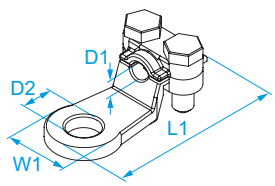
1-BOLT TERMINALS



MATERIAL: nickel-plated die-cast brass
OPERATING TEMPERATURE: from -50 °C to +150 °C

Code	Section (mm²)	Cable diameter (mm)	For screw Ø screw (mm)	For screw Stud size	D1 (mm)	D2 (mm)	W1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	Screw	
5160	4 ÷ 10	2 ÷ 4	5	#10	4,2	5,25	12	26,5	12	7	M5	100/100

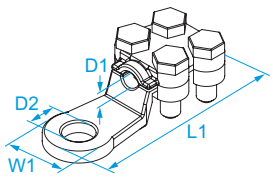
2-BOLT TERMINALS



MATERIAL: nickel-plated die-cast brass
OPERATING TEMPERATURE: from -50 °C to +150 °C

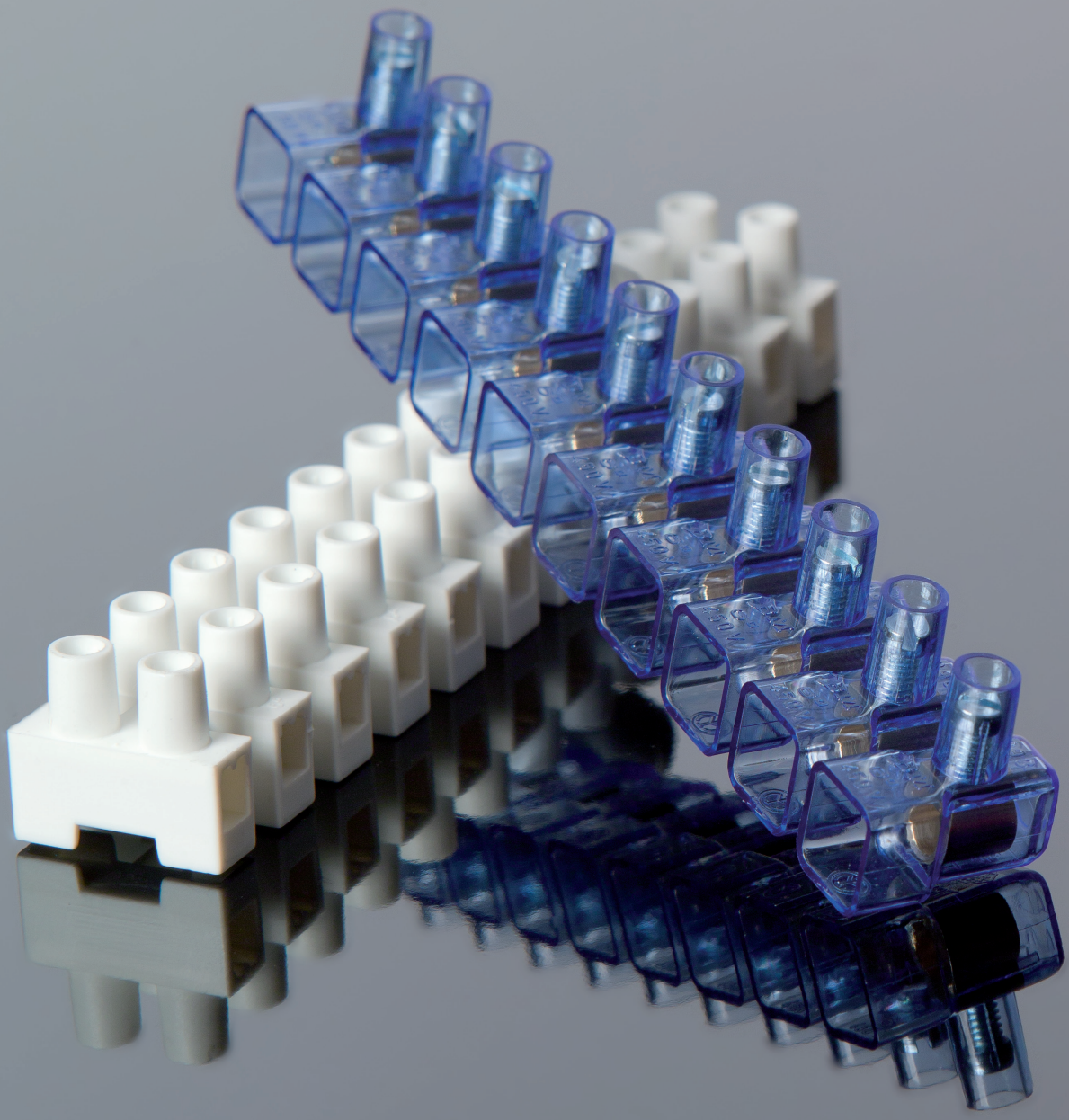
Code	Section (mm²)	For screw Ø screw (mm)	For screw Stud size	D1 (mm)	D2 (mm)	W1 (mm)	L1 (mm)	Screw	
5140	10	5	#10	4	5,3	15	32	M5	100/200
5141	16	8	5/16"	5,1	8,5	15	35	M5	200/200
5142	25	8	5/16"	6,3	8,5	18,8	42	M5	150/150
5143	35	10	3/8"	7,5	10,5	21	48	M5	100/100

4-BOLT TERMINALS



MATERIAL: nickel-plated die-cast brass
OPERATING TEMPERATURE: from -50 °C to +150 °C

Code	Section (mm²)	For screw Ø screw (mm)	For screw Stud size	D1 (mm)	D2 (mm)	W1 (mm)	L1 (mm)	Screw	
5144	50	10	3/8"	9,5	10,5	23	56,5	M6	100/100
5145	75	12	1/2"	11	13,25	26	61	M6	50/50



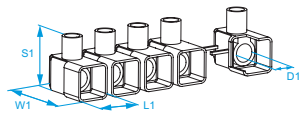
TERMINAL BLOCKS

ONE-WAY TERMINAL BLOCKS pag. 108

CONNECTORS pag. 114

MULTIWAY TERMINAL BLOCKS pag. 122

ONE-WAY TERMINAL BLOCKS · END CONNECTORS · BARS

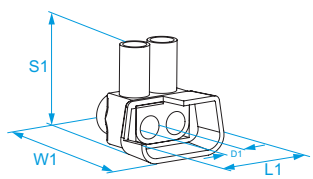


INSULATING HOUSING: transparent polycarbonate (PC) UL 94 V0
CONDUCTIVE BODY: brass
CAPTIVE SCREW IN: galvanized steel
INSULATION SELF-EXTINGUISHING: EN 60335-1: 2002+A2:2006 (par. 30.2.3), EN 60695-2-10 a 850 °C, EN 60695-2-11
CONDUCTOR TYPE: rigid and flexible
MAX OPERATING TEMPERATURE: 85 °C
PROTECTION GRADE: IP20
ACCORDING TO STD.: EN 60998-1: 2004, EN 60998-2-1: 2004

Code	Conductor section (mm²)	Connection capability Section (mm²)	Connection capability N. rigid conductors	Connection capability N. flexible conductors	Rated voltage (V)	Test current (A)	Screw	D1 (mm)	L1 (mm)	W1 (mm)	S1 (mm)	Ways	
991	1.5	1.5 1 0.75	2 2 ÷ 3 2 ÷ 4	2 2 ÷ 3 2 ÷ 4	450	18	M3	3,1	7,5	15	14,5	10	10/1000
992	2.5	2.5 1.5 1	2 2 ÷ 3 2 ÷ 4	2 2 ÷ 3 2 ÷ 4	450	24	M3.5	4,1	9	17,5	18,2	10	10/600
9924	4	4 2.5 1.5	2 2 ÷ 3 2 ÷ 4	2 2 ÷ 3 2 ÷ 4	450	32	M4	4,5	10,3	21	20	10	10/400
993	6	6 4 2.5	2 2 ÷ 3 2 ÷ 4	2 2 2 ÷ 4	450	41	M4	6	11,8	22,5	23	10	10/300
994	10	10 6 4	2 2 ÷ 3 2 ÷ 4	2 2 2 ÷ 4	450	57	M6	7,9	14,7	26	26	10	10/200
995	16	16 10 6	2 2 ÷ 3 2 ÷ 4	2 2 2 ÷ 3	450	76	M8	10,5	18,8	31,8	32,2	10	8/80

HALOGEN FREE

ONE-WAY TERMINAL BLOCKS · END CONNECTORS · 2 INPUTS

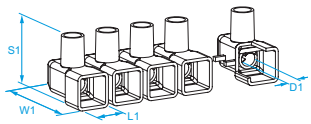


INSULATING HOUSING: transparent polycarbonate (PC) UL 94 V0
CONDUCTIVE BODY: brass
CAPTIVE SCREW IN: galvanized steel
INSULATION SELF-EXTINGUISHING: EN 60335-1: 2002+A2:2006 (par. 30.2.3), EN 60695-2-10 a 850 °C, EN 60695-2-11
CONDUCTOR TYPE: rigid and flexible
MAX OPERATING TEMPERATURE: 85 °C
PROTECTION GRADE: IP20
ACCORDING TO STD.: EN 60998-1: 2004, EN 60998-2-1: 2004

Code	Conductor section (mm²)	Connection capability Section (mm²)	Connection capability N. rigid conductors	Connection capability N. flexible conductors	Rated voltage (V)	Test current (A)	Screw	D1 (mm)	L1 (mm)	W1 (mm)	S1 (mm)	
9416	2 x 16	16 10 6	2	- 2 2	450	76	M5	5,5	20,5	22,6	24,5	30/30
9425	2 x 25	25 16 10	2	- 2 2	450	101	M6	7	25	26,2	25,4	20/20
9435	2 x 35	35 25 16	2	- 2 2	450	125	M8	9	32	31,2	33,4	10/10

HALOGEN FREE

ONE-WAY TERMINAL BLOCKS · END CONNECTORS · BARS · WITH INDIRECT CLAMPING

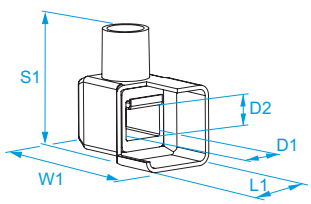


INSULATING HOUSING: transparent polycarbonate (PC) UL 94 V0
CONDUCTIVE BODY: brass
WIRE PROTECTION: stainless steel
CAPTIVE SCREW IN: galvanized steel
INSULATION SELF-EXTINGUISHING: EN 60335-1: 2002+A2:2006 (par. 30.2.3), EN 60695-2-10 a 850 °C, EN 60695-2-11
CONDUCTOR TYPE: rigid and flexible
MAX OPERATING TEMPERATURE: 85 °C
PROTECTION GRADE: IP20
ACCORDING TO STD.: EN 60998-1: 2004, EN 60998-2-1: 2004

Code	Conductor section (mm²)	Connection capability Section (mm²)	Connection capability N. rigid conductors	Connection capability N. flexible conductors	Rated voltage (V)	Test current (A)	Screw	D1 (mm)	L1 (mm)	W1 (mm)	S1 (mm)	Ways	
9924CS	4	4 2.5 1.5 1 0.75 0.5	2 2 ÷ 3 2 ÷ 4 2 ÷ 5 2 ÷ 6 2 ÷ 10	2 2 ÷ 3 2 ÷ 4 2 ÷ 5 2 ÷ 6 2 ÷ 10	450	32	M4	4,5	10,3	21	20	10	10/400
993CS	6	6 4 2.5 1.5 1 0.75 0.5	2 2 ÷ 3 2 ÷ 4 2 ÷ 6 2 ÷ 8 2 ÷ 10 2 ÷ 12	2 2 ÷ 3 2 ÷ 4 2 ÷ 6 2 ÷ 8 2 ÷ 10 2 ÷ 12	450	41	M4	6	11,8	22,5	23	10	10/300
994CS	10	10 6 4 2.5 1.5 1 0.75	2 2 ÷ 3 2 ÷ 5 2 ÷ 8 2 ÷ 12 2 ÷ 15 2 ÷ 15	2 2 ÷ 3 2 ÷ 5 2 ÷ 8 2 ÷ 12 2 ÷ 15 2 ÷ 15	450	57	M6	7,9	14,7	26	26	10	10/200

HALOGEN FREE

ONE-WAY TERMINAL BLOCKS · END CONNECTORS · WITH INDIRECT CLAMPING

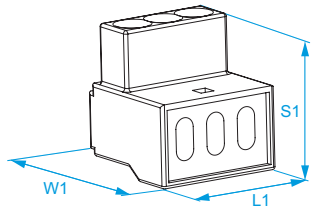


INSULATING HOUSING: transparent polycarbonate (PC) UL 94 V0
CONDUCTIVE BODY: brass
WIRE PROTECTION: stainless steel
CAPTIVE SCREW IN: galvanized steel
INSULATION SELF-EXTINGUISHING: EN 60335-1: 2002+A2:2006 (par. 30.2.3), EN 60695-2-10 a 850 °C, EN 60695-2-11
CONDUCTOR TYPE: rigid and flexible
MAX OPERATING TEMPERATURE: 85 °C
PROTECTION GRADE: IP00
ACCORDING TO STD.: EN 60998-1: 2004, EN 60998-2-1: 2004

Code	Conductor section (mm²)	Connection capability Section (mm²)	Connection capability N. rigid conductors	Connection capability N. flexible conductors	Rated voltage (V)	Test current (A)	Screw	D1 (mm)	D2 (mm)	L1 (mm)	W1 (mm)	S1 (mm)	
9960CS	25	25 16 10 6 4 2,5	2 2 ÷ 3 2 ÷ 4 2 ÷ 8 2 ÷ 11 4 ÷ 16	2 2 ÷ 3 2 ÷ 4 2 ÷ 8 2 ÷ 11 4 ÷ 16	450	101	M10	12	9,1	22,5	36,3	37	50/50
9961CS	35	35 25 16 10 6 4 2,5	2 2 ÷ 3 2 ÷ 4 2 ÷ 7 2 ÷ 11 2 ÷ 16 5 ÷ 17	2 2 ÷ 3 2 ÷ 4 2 ÷ 7 2 ÷ 11 2 ÷ 16 5 ÷ 17	450	125	M10	15	10,5	26,1	43,5	41,2	25/25

HALOGEN FREE

ONE-WAY TERMINAL BLOCKS · 3 INPUTS



Unipolar terminal block with multiple inputs that can be fixed on DIN 46277/1 and DIN 46277/3 rail

INSULATING HOUSING: transparent polycarbonate (PC) UL 94 V0

CONDUCTIVE BODY: brass

CAPTIVE SCREW IN: galvanized steel

INSULATION SELF-EXTINGUISHING: EN 60335-1: 2002+A2:2006 (par. 30.2.3), EN 60695-2-10 a 850 °C, EN 60695-2-11

CONDUCTOR TYPE: rigid and flexible

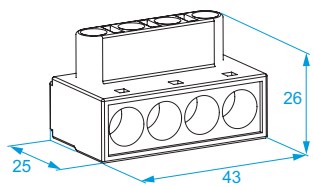
MAX OPERATING TEMPERATURE: 85 °C

ACCORDING TO STD.: EN 60998-1: 2004, EN 60998-2-1: 2004

Code	Conductor section (mm²)	Wire protection	Rated voltage (V)	Test current (A)	Inputs	Stripping length (mm)	Screw	L1 (mm)	W1 (mm)	S1 (mm)	
996	1 ÷ 6	stainless steel	450	16	3	10	M4	22	21	24	50/50
9984	16 ÷ 35		750	125	3	18	M8	47	36,4	36	25/25

HALOGEN FREE

ONE-WAY TERMINAL BLOCKS · 4 INPUTS



INSULATING HOUSING: transparent polycarbonate (PC) UL 94 V0

CONDUCTIVE BODY: brass

CAPTIVE SCREW IN: galvanized steel

INSULATION SELF-EXTINGUISHING: EN 60335-1: 2002+A2:2006 (par. 30.2.3), EN 60695-2-10 a 850 °C, EN 60695-2-11

CONDUCTOR TYPE: rigid and flexible

MAX OPERATING TEMPERATURE: 85 °C

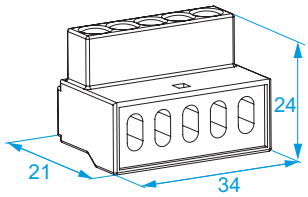
PROTECTION GRADE: IP20

ACCORDING TO STD.: EN 60998-1: 2004, EN 60998-2-1: 2004

Code	Conductor section (mm²)	Rated voltage (V)	Test current (A)	Inputs	Stripping length (mm)	Screw	
998	6 ÷ 16	750	40	4	10	M5	25/25

HALOGEN FREE

ONE-WAY TERMINAL BLOCKS · 5 INPUTS



Unipolar terminal block with multiple inputs that can be fixed on DIN 46277/1 and DIN 46277/3 rail

INSULATING HOUSING: transparent polycarbonate (PC) UL 94 V0

CONDUCTIVE BODY: brass

CAPTIVE SCREW IN: galvanized steel

INSULATION SELF-EXTINGUISHING: EN 60335-1: 2002+A2:2006 (par. 30.2.3), EN 60695-2-10 a 850 °C, EN 60695-2-11

CONDUCTOR TYPE: rigid and flexible

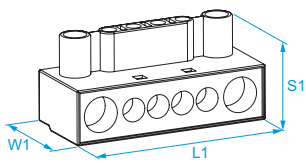
MAX OPERATING TEMPERATURE: 85 °C

ACCORDING TO STD.: EN 60998-1: 2004, EN 60998-2-1: 2004

Code	Conductor section (mm²)	Wire protection	Rated voltage (V)	Test current (A)	Inputs	Stripping length (mm)	Screw	
997	1 ÷ 6	stainless steel	450	16	5	10	M4	50/50

HALOGEN FREE

ONE-WAY TERMINAL BLOCKS · 6 INPUTS



INSULATING HOUSING: transparent polycarbonate (PC) UL 94 V0

CONDUCTIVE BODY: brass

SCREW IN: galvanized steel

INSULATION SELF-EXTINGUISHING: EN 60335-1: 2002+A2:2006 (par. 30.2.3), EN 60695-2-10 a 850 °C, EN 60695-2-11

CONDUCTOR TYPE: rigid and flexible

MAX OPERATING TEMPERATURE: 85 °C

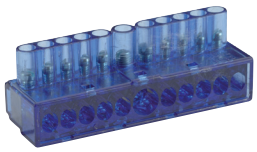
PROTECTION GRADE: IP20

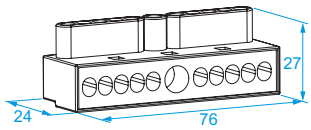
ACCORDING TO STD.: EN 60998-1: 2004, EN 60998-2-1: 2004

Code	Conductor section (mm²)	Rated voltage (V)	Test current (A)	Inputs	Stripping length (mm)	Screw	L1 (mm)	W1 (mm)	S1 (mm)	
9981	(2,5 ÷ 6) x 4 (6 ÷ 16) x 2	750	40	6	11	M4, M5	48	24	26	25/25
9983	(6 ÷ 16) x 4 (16 ÷ 35) x 2	750	125	6	16 18	M5, M8	77	35	35	25/25

HALOGEN FREE

ONE-WAY TERMINAL BLOCKS · 11 INPUTS





INSULATING HOUSING: transparent polycarbonate (PC) UL 94 V0

CONDUCTIVE BODY: brass

SCREW IN: galvanized steel

INSULATION SELF-EXTINGUISHING: EN 60335-1: 2002+A2:2006 (par. 30.2.3), EN 60695-2-10 a 850 °C, EN 60695-2-11

CONDUCTOR TYPE: rigid and flexible

MAX OPERATING TEMPERATURE: 85 °C

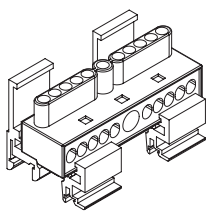
PROTECTION GRADE: IP20

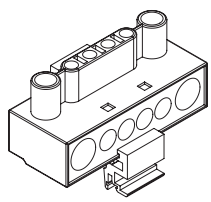
ACCORDING TO STD.: EN 60998-1: 2004, EN 60998-2-1: 2004

Code	Conductor section (mm²)	Rated voltage (V)	Test current (A)	Inputs	Stripping length (mm)	Screw	
9982	(2,5 ÷ 6) x 10 (6 ÷ 16) x 1	750	40	11	11	M4	25/25

HALOGEN FREE

ACCESSORIES FOR ONE-WAY TERMINAL BLOCKS WITH MULTIPLE INPUTS · DIN BAR BASE





Base for fixing one-way terminals with multiple inputs on DIN 46277/1 and DIN 46277/3 rail

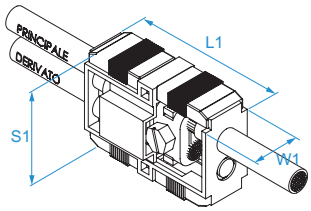
INSULATING HOUSING: polypropylene (PP) natural color

MAX OPERATING TEMPERATURE: 85 °C

ASSEMBLY: The terminal blocks can be mounted on the rail by means of a slight pressure and can be released by inserting a screwdriver into the head opening.

Code	Terminal block type	Bases per terminal block	
99601	996-997	1	50/50
99811	998-9981	1	50/50
99821	9982	2	50/50
99831	9983	2	50/50
99841	9984	1	50/50

INDIRECT CLAMPING TERMINAL BLOCK · TWIN BLOCK



One-way terminal block with multiple inputs and indirect clamping for electrical cables, useful for channel or flying shunts or junctions.

INSULATING HOUSING: transparent polycarbonate (PC) UL 94 V0

CONDUCTIVE BODY: nickel-plated die-cast brass

SAFETY CLIP IN: black polyamide (PA 6.6)

SCREW IN: galvanized steel

MAX OPERATING TEMPERATURE: 85 °C

CLAMPING TYPE: indirect

TEST VOLTAGE: 2500 V

PROTECTION GRADE: IP20

ACCORDING TO STD.: EN 60947-7-1, EN 60998-1: 2004, EN 60998-2-1: 2004, EN 60999

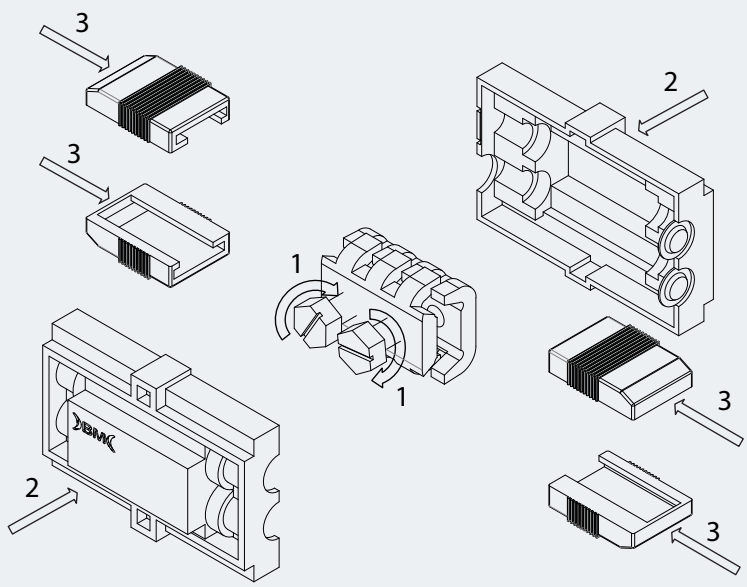
Code	Conductor section (mm²)	Connectable flexible conductors Primary (mm²)	Connectable flexible conductors Derivative (mm²)	Rated voltage (V)	L1 (mm)	W1 (mm)	S1 (mm)	
95261	10-25	25 25 25 16 16 10	25 16 10 16 10 10	450	64	27	43	1/10
95262	25-50	50 50 50 35 35 25	50 35 25 35 25 25	450	71	34	49	1/10
95263	50-95	95 95 95 70 70 50	95 70 50 70 50 50	450	77	41	61	1/10
95264	70-120	120 120 120 95 95 70	120 95 70 95 70 70	450	90	50	72	1/5

CE UKCA

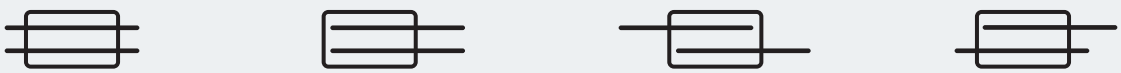
HALOGEN FREE

ASSEMBLY INSTRUCTIONS

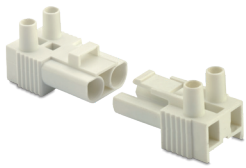
Remove the black clips, open the blue shell, make electrical connections, close the shell and insert the safety clips

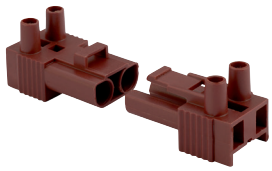


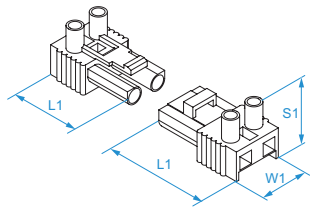
CONNECTION TYPES

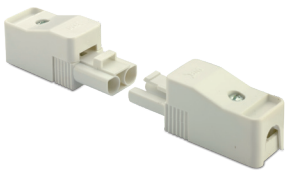


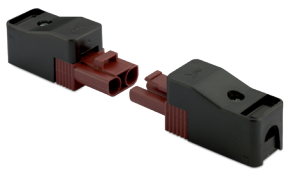
POLARIZED PLUG TERMINALS · 2-WAY CONNECTORS · M902 SERIES

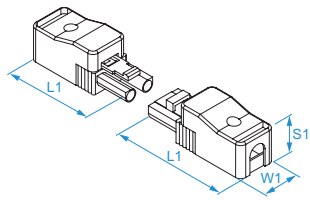












BROWN PLUG AND SOCKET: polyamide (PA 6.6) and 25% fiberglass

WHITE PLUG AND SOCKET: polyamide (PA 6.6)

WHITE AND BLACK SHELL AND CABLE CLAMP: polyamide (PA 6.6)

CONDUCTIVE BODY IN: nickel-plated brass

CAPTIVE SCREW IN: galvanized steel

TEST CURRENT: 16 A

INSULATION SELF-EXTINGUISHING: EN 60335-1: 2002 +A2:2006 (par. 30.2.3), EN 60695-2-11

RATED IMPULSE VOLTAGE: 4 kV

CONDUCTOR TYPE: rigid and flexible

OPERATING CYCLES: 5000

RATED VOLTAGE: 400 V

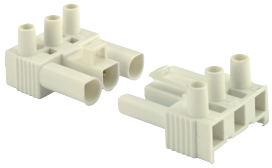
POLLUTION DEGREE: 2

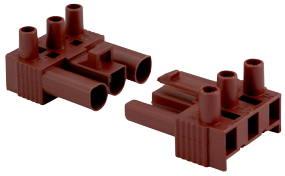
PROTECTION GRADE: IP20

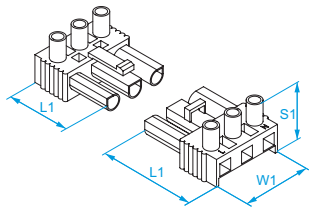
ACCORDING TO STD.: EN 61984: 2009

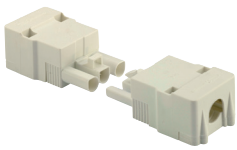
Code	Description	Section (mm²)	Operating temperature	Terminal Block Material	Terminal Block Color	Shells Material	Shells Color	Shells Cable clamp	W1 (mm)	L1 (mm)	S1 (mm)	
B9021	Male plug	2,5	from -10 °C to 105 °C max	PA 6.6	White			-	19	32	20	100/100
B9022	Female receptacle	2,5	from -10 °C to 105 °C max	PA 6.6	White			-	19	32	20	100/100
B9023	Male plug with shell	2,5	from -10 °C to 105 °C max	PA 6.6	White	PA 6.6	White	5,7 - 7	19	60	21	50/50
B9024	Female receptacle with shell	2,5	from -10 °C to 105 °C max	PA 6.6	White	PA 6.6	White	5,7 - 7	19	60	21	50/50
M9021	Male plug high temperature	2,5	from -10 °C to 150 °C max	PA 6.6 + fiberglass	Brown			-	19	32	20	100/100
M9022	Female receptacle high temperature	2,5	from -10 °C to 150 °C max	PA 6.6 + fiberglass	Brown			-	19	32	20	100/100
M9023	Male plug high temperature with shell	2,5	from -10 °C to 105 °C max	PA 6.6 + fiberglass	Brown	PA 6.6	Black	5,7 - 7	19	60	21	50/50
M9024	Female receptacle high temperature with shell	2,5	from -10 °C to 105 °C max	PA 6.6 + fiberglass	Brown	PA 6.6	Black	5,7 - 7	19	60	21	50/50

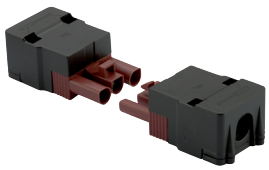
POLARIZED PLUG TERMINALS · 3-WAY CONNECTORS · M903 SERIES

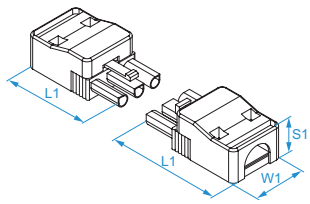












BROWN PLUG AND SOCKET: polyamide (PA 6.6) and 25% fiberglass

WHITE PLUG AND SOCKET: polyamide (PA 6.6)

WHITE AND BLACK SHELL AND CABLE CLAMP: polyamide (PA 6.6)

CONDUCTIVE BODY IN: nickel-plated brass

CAPTIVE SCREW IN: galvanized steel

TEST CURRENT: 16 A

INSULATION SELF-EXTINGUISHING: EN 60335-1: 2002 +A2:2006 (par. 30.2.3), EN 60695-2-11

RATED IMPULSE VOLTAGE: 4 kV

CONDUCTOR TYPE: rigid and flexible

OPERATING CYCLES: 5000

RATED VOLTAGE: 400 V

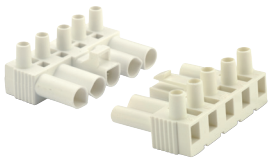
POLLUTION DEGREE: 2

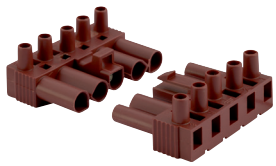
PROTECTION GRADE: IP20

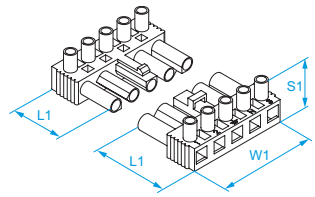
ACCORDING TO STD.: EN 61984: 2009

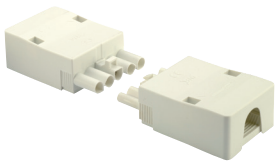
Code	Description	Section (mm^2)	Operating temperature	Terminal Block Material	Terminal Block Color	Shells Material	Shells Color	Shells Cable clamp	W1 (mm)	L1 (mm)	S1 (mm)	
B9031	Male plug	2,5	from -10 °C to 105 °C max	PA 6.6	White			-	29	32	20	50/50
B9032	Female receptacle	2,5	from -10 °C to 105 °C max	PA 6.6	White			-	29	32	20	50/50
B9033	Male plug with shell	2,5	from -10 °C to 105 °C max	PA 6.6	White	PA 6.6	White	4,5 - 10,5	32	57	23	50/50
B9034	Female receptacle with shell	2,5	from -10 °C to 105 °C max	PA 6.6	White	PA 6.6	White	4,5 - 10,5	32	57	23	50/50
M9031	Male plug high temperature	2,5	from -10 °C to 150 °C max	PA 6.6 + fiberglass	Brown			-	29	32	20	50/50
M9032	Female receptacle high temperature	2,5	from -10 °C to 150 °C max	PA 6.6 + fiberglass	Brown			-	29	32	20	50/50
M9033	Male plug high temperature with shell	2,5	from -10 °C to 105 °C max	PA 6.6 + fiberglass	Brown	PA 6.6	Black	4,5 - 10,5	32	57	23	50/50
M9034	Female receptacle high temperature with shell	2,5	from -10 °C to 105 °C max	PA 6.6 + fiberglass	Brown	PA 6.6	Black	4,5 - 10,5	32	57	23	50/50

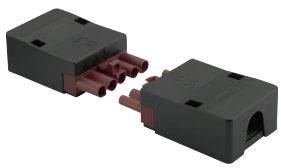
POLARIZED PLUG TERMINALS · 5-WAY CONNECTORS · M905 SERIES

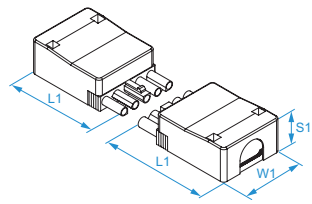








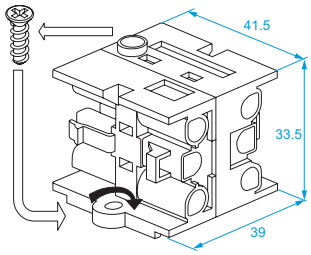




BROWN PLUG AND SOCKET: polyamide (PA 6.6) and 25% fiberglass
WHITE PLUG AND SOCKET: polyamide (PA 6.6)
WHITE AND BLACK SHELL AND CABLE CLAMP: polyamide (PA 6.6)
CONDUCTIVE BODY IN: nickel-plated brass
CAPTIVE SCREW IN: galvanized steel
TEST CURRENT: 16 A
INSULATION SELF-EXTINGUISHING: EN 60335-1: 2002 +A2:2006 (par. 30.2.3), EN 60695-2-11
RATED IMPULSE VOLTAGE: 4 kV
CONDUCTOR TYPE: rigid and flexible
OPERATING CYCLES: 5000
RATED VOLTAGE: 400 V
POLLUTION DEGREE: 2
PROTECTION GRADE: IP20
ACCORDING TO STD.: EN 61984: 2009

Code	Description	Section (mm²)	Operating temperature	Terminal Block Material	Terminal Block Color	Shells Material	Shells Color	Shells Cable clamp	W1 (mm)	L1 (mm)	S1 (mm)	
B9051	Male plug	2,5	from -10 °C to 105 °C max	PA 6.6	White			-	48,5	32	20	50/50
B9052	Female receptacle	2,5	from -10 °C to 105 °C max	PA 6.6	White			-	48,5	32	20	50/50
B9053	Male plug with shell	2,5	from -10 °C to 105 °C max	PA 6.6	White	PA 6.6	White	1x(9-14)-2x(9-10,5)	48,5	76,5	26	50/50
B9054	Female receptacle with shell	2,5	from -10 °C to 105 °C max	PA 6.6	White	PA 6.6	White	1x(9-14)-2x(9-10,5)	48,5	76,5	26	50/50
M9051	Male plug high temperature	2,5	from -10 °C to 150 °C max	PA 6.6 + fiberglass	Brown			-	48,5	32	20	50/50
M9052	Female receptacle high temperature	2,5	from -10 °C to 150 °C max	PA 6.6 + fiberglass	Brown			-	48,5	32	20	50/50
M9053	Male plug high temperature with shell	2,5	from -10 °C to 105 °C max	PA 6.6 + fiberglass	Brown	PA 6.6	Black	1x(9-14)-2x(9-10,5)	48,5	76,5	26	50/50
M9054	Female receptacle high temperature with shell	2,5	from -10 °C to 105 °C max	PA 6.6 + fiberglass	Brown	PA 6.6	Black	1x(9-14)-2x(9-10,5)	48,5	76,5	26	50/50

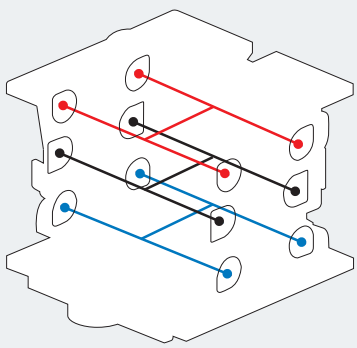
ACCESSORIES FOR M903 SERIES · 3-WAY SHUNT BLOCK



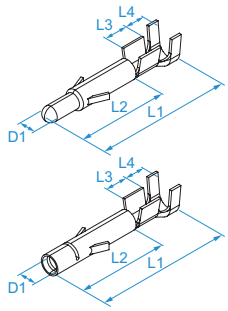
CONDUCTIVE BODY IN: nickel-plated brass
SHUNT: 3 female sockets + 1 male plug
INSULATING HOUSING IN: polycarbonate (PC), black
INSULATION SELF-EXTINGUISHING: UL 94 V0

Code	Operating temperature	
M9039	90 °C max	10/10

M9039 ASSEMBLY INSTRUCTIONS



AUTOMATIC CRIMPING CONNECTORS· TERMINALS · M620 SERIES · REEL



TEST CURRENT: 15 A
TERMINAL MATERIAL: tinned brass
RATED VOLTAGE: 300 AC/DC V
MAX CONTACT RESISTANCE: 10 (20 after environmental testing) mΩ

Code	Type	Section (mm²)	Section (AWG)	Ø insulant (mm)	Operating temperature	Tools	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	D1 (mm)	
02230	male	0.5÷2.0	(20-14)	1.9 - 3.4	from -25 °C to 105 °C max	53P000 +53M2C2	20,5	12,8	3,2	2,8	2	4000/4000
02240	female	0.5÷2.0	(20-14)	1.9 - 3.4	from -25 °C to 105 °C max	53P000 +53M2C2	20,5	12,8	3,2	2,8	1,9	4000/4000

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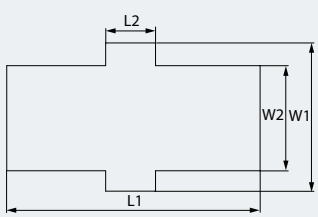
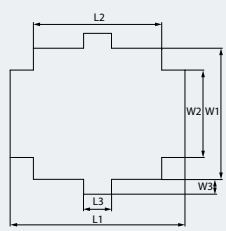
ACCESSORIES FOR AUTOMATIC CRIMPING CONNECTORS · EXTRACTION TOOL

Code	Description	
1107	Tool for extracting terminals from housing	1/1

PANEL ASSEMBLY INSTRUCTIONS



SHAPE I

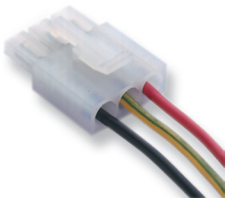


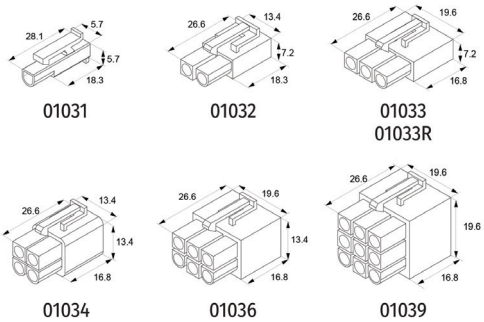
SHAPE II

Template for code	# ways	Shape	Panel hole size tolerance ± 0.13 mm					
			L1	L2	L3	W1	W2	W3
01042	2	I	18,8	3,7		11	7,8	-
01043	3	I	25	3,7		11	7,8	-
01044	4	II	18,8	13,8	4	14,1	9,4	1,6
01046	6	II	25	20	4	14,1	9,4	1,6
01049	9	II	25	20	4	20,3	9,4	1,6

Applicable on boards 0.8 - 2 mm thick

ACCESSORIES FOR CRIMPING CONNECTORS · M620 SERIES · MALE HOUSING

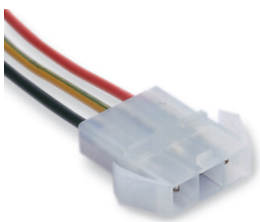


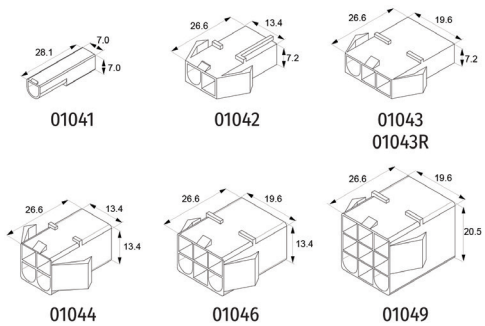


INSULATING HOUSING IN: polyamide (PA 6.6) natural color
DIELECTRIC STRENGTH: 1500 AC-1 minute V
INSULATION SELF-EXTINGUISHING: UL 94 V2

Code	Type	Operating temperature	Shells Material		Shells Color	Ways	Rated voltage (V)	Current (A)	
01031	male	from -25 °C to 105 °C max	PA 6.6		Natural	1	300	15	1000/1000
01032	male	from -25 °C to 105 °C max	PA 6.6		Natural	2	300	15	500/500
01033	male	from -25 °C to 105 °C max	PA 6.6		Natural	3	300	14	500/500
01034	male	from -25 °C to 105 °C max	PA 6.6		Natural	4	300	13	500/500
01036	male	from -25 °C to 105 °C max	PA 6.6		Natural	6	300	12	300/300
01039	male	from -25 °C to 105 °C max	PA 6.6		Natural	9	300	9	200/200

ACCESSORIES FOR CRIMPING CONNECTORS · M620 SERIES · FEMALE HOUSING

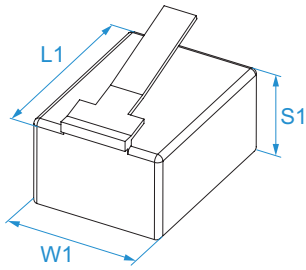




INSULATING HOUSING IN: polyamide (PA 6.6) natural color
DIELECTRIC STRENGTH: 1500 AC-1 minute V
INSULATION SELF-EXTINGUISHING: UL 94 V2

Code	Type	Operating temperature	Shells Material		Shells Color	Ways	Rated voltage (V)	Current (A)	
01041	female	from -25 °C to 105 °C max	PA 6.6		Natural	1	300	15	500/500
01042	female	from -25 °C to 105 °C max	PA 6.6		Natural	2	300	15	500/500
01043	female	from -25 °C to 105 °C max	PA 6.6		Natural	3	300	14	500/500
01043R	female	from -25 °C to 105 °C max	PA 6.6		Red	3	300	14	500/500
01044	female	from -25 °C to 105 °C max	PA 6.6		Natural	4	300	13	500/500
01046	female	from -25 °C to 105 °C max	PA 6.6		Natural	6	300	12	300/300
01049	female	from -25 °C to 105 °C max	PA 6.6		Natural	9	300	9	200/200

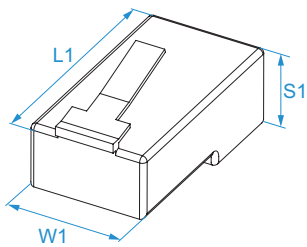
RJ PHONE PLUGS



CABLE TYPE: phone cables
CONDUCTOR SECTION: (26-24) AWG
INSULATING HOUSING: transparent polycarbonate (PC) UL 94 V2
PIN MATERIAL: phosphor bronze with 50 micro inch gilding

Code	Description	Positions - Contacts	Tools	W1 (mm)	L1 (mm)	S1 (mm)	
01064	RJ22	4P - 4C	549	6,5	12,5	7,5	100/100
01065	RJ11/RJ14	6P - 4C	549	6,5	12,5	9,5	100/100
01066	RJ12	6P - 6C	549	6,5	12,5	9,5	100/100

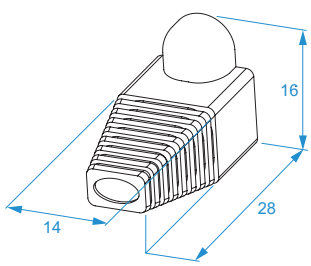
RJ 45 LAN PLUGS



CABLE TYPE: 5e category (TIA/EIA-568-B)
CONDUCTOR SECTION: (26-24) AWG
INSULATING HOUSING: transparent polycarbonate (PC) UL 94 V2
PIN MATERIAL: phosphor bronze with 50 micro inch gilding

Code	Description	Positions - Contacts	Tools	W1 (mm)	L1 (mm)	S1 (mm)	
01068	RJ45	8P - 8C	549, 53P5YA	8	21	11,5	100/100
01069	fully shielded RJ45	8P - 8C	549, 53P5YA	8,2	21,2	117	100/100

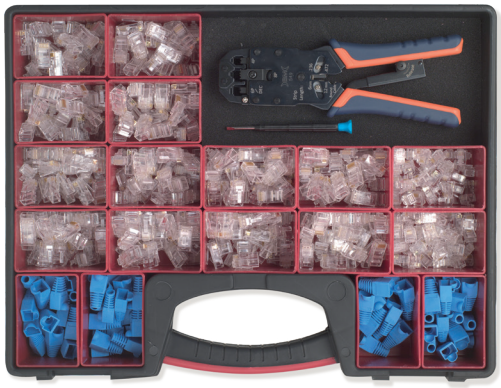
ACCESSORIES FOR RJ 45 · PLUG BOOTS



MATERIAL: polycarbonate (PC) UL 94 V0

Code		Shells Color	
01060B		Blue	100/1000
01060N		Black	100/1000
01060R		Red	100/1000
01060V		Green	100/100

RJ PLUG + PLUG BOOTS + 549 CRIMPING TOOL

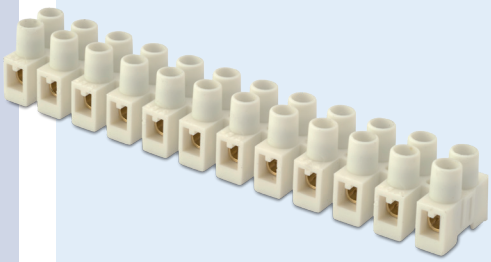


Code	Description
00410	RJ plugs for phone and data networks, plug boots and crimping tool in plastic case

Component	Description	Pcs / code
549	Crimping tool for RJ connectors	1
01065	RJ phone plugs	100
01068	RJ45 lan plugs	400
01060B	Plug boots for RJ45, blu	50
00405	Plastic case	1

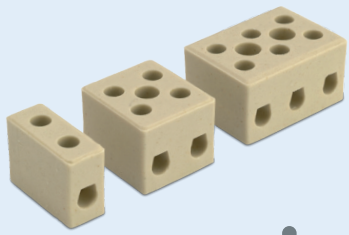
MULTIWAY TERMINAL BLOCKS

POLYPROPYLENE TERMINAL BLOCKS



85 °C MAX

STEATITE TERMINAL BLOCKS

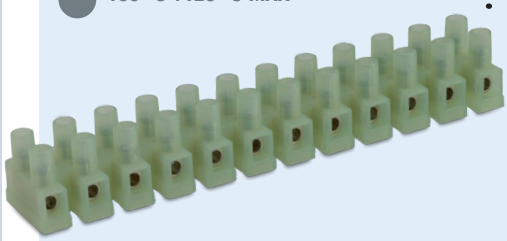


300 °C MAX

for higher temperatures

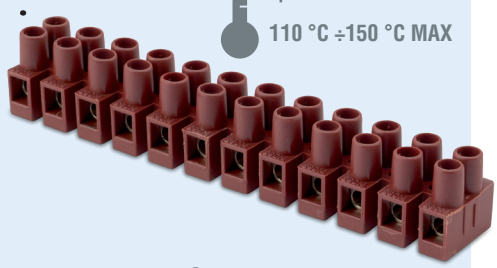
- **Nylon standard**
- **Nylon "CS"** with wire protection

100 °C ÷125 °C MAX



- **Nylon "GF"** with fiberglass for the highest temperatures
- **Nylon "GF/CS"** with fiberglass for the highest temperatures with wire protection

110 °C ÷150 °C MAX

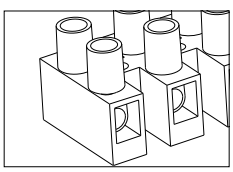


NYLON TERMINAL BLOCKS

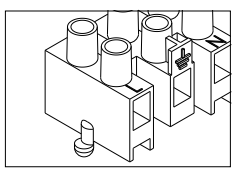
Number of poles 1 to 12

More insulating base types

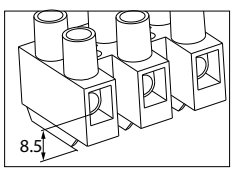
Customizable marking



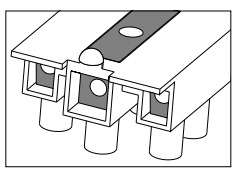
FLAT



FAST CLAMP



RAISED



WITH GROUND CONNECTION

ACCESSORIES · WAY MARKING

Ways marking is printed on the insulation of the screws of the terminal blocks. Markings are printed in black on natural colour terminal blocks, in white on brown terminal blocks. For markings that are not available in the following tables, contact BM.

ACCORDING TO SDT: ⏚ symbol complies to IEC 60417-5017 (Earth); ⏚ symbol complies to IEC 60417-5019 (Protective Earth)

FOR M092 SERIES

Drawing	# ways	Way marking											
		1	2	3	4	5	6	7	8	9	10	11	12
4376	1	L											
4377		N											
4200	2	L	N										
4257	3	L	⏚	N									
4162		⏚	L	N									
4316		N	L	⏚									
4153		⏚	N	L									
4332	4	⏚	N	N	L								
4349	6	1	2	3	4	5	6						
4157	10	L	N	N	⏚	L	N	⏚	L	+	-		
4363	12	A	B	C	D	E	F	G	H	I	L	M	N

FOR M094 SERIES

Drawing	# ways	Way marking											
		1	2	3	4	5	6	7	8	9	10	11	12
4091	2	N	L										
4772		L	N										
4090	3	N	⏚	L									
4368		G	R	S									
4148		⏚	N	L									
4776		L	_	N									
4154		L	⏚	N									
4770		L	⏚	N									
4288		N	L	⏚									
4182		L	N	⏚									
4775		L	⏚	L									
4119		F	_	N									
4245	4	⏚	N	P	F								
4327		1	2	⏚	N								
4773		L	N	1	2								
4112		L	⏚	N	_								
4329		L	_	N	⏚								
4309	5	L	N	⏚	_	_							
4308		L	N	⏚	L	N							
4292		N	L	⏚	_	_							
4301		N	⏚	L	_	_							
4304		1	2	3	N	⏚							
4771		L	⏚	N	1	2							
4777		L	⏚	L	1	2							
4464	6	⏚	N	1	2	3	4						
4331		2	1	_	_	N	⏚						
4305		1	2	3	4	5	⏚						
4774		U1	V1	W1	U2	V2	W2						
4314	12	P	N	⏚	P	N	⏚	P	N	⏚	P	N	⏚
4152		P	N	⏚	L	P	N	⏚	L	P	N	⏚	L

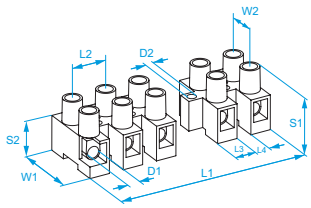
FOR M095 SERIES

Drawing	# ways	Way marking											
		1	2	3	4	5	6	7	8	9	10	11	12
4315	2	N	L										
4311	3	⏚	1	2									
4313		L	⏚	N									
4334		N	⏚	L									
4312	6	⏚	1	2	3	4	5						
4330	12	P	N	⏚	P	N	⏚	P	N	⏚	P	N	⏚
4176		P	N	⏚	L	P	N	⏚	L	P	N	⏚	L

FOR M093, M093H, N9201 SERIES

Drawing	# ways	Way marking											
		1	2	3	4	5	6	7	8	9	10	11	12
4192	1	⏚											
4291		L											
4291		N											
4118	2	L	N										
4350		⏚	_										
4333		⏚	_										
4365	3	⏚	N	L									
4364		L	⏚	N									
4143		L	⏚	N									
4193		L	N	⏚									
4117		⏚	L	N									
4161		⏚	N	L									
4088		N	⏚	L									
4078		_	⏚	_									
4178		N	⏚	ϟ									
4223		_	_	⏚									
4370		L	L	N									
4371		N	L	L									
4372	4	L	⏚	N	L_1								
4198		1	2	⏚	N								
4367		L	N	+	-								
4150		⏚	N	1	2								
4089		L	N	ϟ	_								
4187		_	L	⏚	N								
4317		⏚	C	P	A								
4366	5	⏚	L	N	+	-							
4310		L	⏚	N	X	ϟ							
4177		N	⏚	L	_	_							
4247		_	_	_	⏚	_							
4352		N	⏚	L	1+	2+							
4307		L	⏚	N	L	ϟ							
4306	6	⏚	N	1	2	3	4						
4289		L	N	C	M	A	⏚						
4369		6	5	4	3	L2	N1						
4186	7	L	N	⏚	⏚	1	2	3					
4373		7	6	5	4	3	L2	N1					
4263	8	L	N	1	2	3	4	5	6				
4353		1	2	3	4	5	6	7	8				
4374		8	7	6	5	4	3	L2	N1				
4185	9	L	N	⏚	⏚	1	2	3	4	5			
4375		9	8	7	6	5	4	3	L2	N1			
4278	12	⏚	⏚	⏚	⏚	⏚	⏚	⏚	⏚	⏚	⏚	⏚	⏚
4328		P	N	⏚	P	N	⏚	P	N	⏚	P	N	⏚
4175		P	N	⏚	L	P	N	⏚	L	P	N	⏚	L

MULTIWAY TERMINAL BLOCKS · POLYPROPYLENE · 12 WAYS · 920 SERIES



INSULATING HOUSING: polypropylene (PP) natural color

CONDUCTIVE BODY: brass

CAPTIVE SCREW IN: galvanized steel

INSULATION SELF-EXTINGUISHING: EN 60335-1: 2002+A2:2006 (par. 30.2.3), EN 60695-2-10 a 850 °C, EN 60695-2-11

CONDUCTOR TYPE: rigid and flexible

MAX OPERATING TEMPERATURE: 85 °C

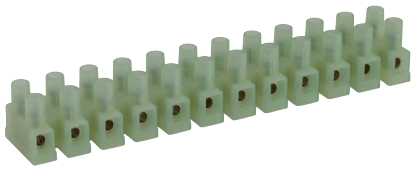
TEST VOLTAGE: 2500 V (9200, 9201, 9202, 9203), 3000 V (9204)

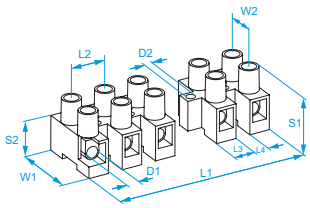
PROTECTION GRADE: IP20

ACCORDING TO STD.: EN 60998-1: 2004, EN 60998-2-1: 2004, EN 60335-1: 2002 + A2: 2006 (Par. 30.2.3), IEC/EN 60695-2-11

Code	Section (mm^2)	Color	Rated voltage (V)	Test current (A)	Stripping length (mm)	Screw	Torque (Nm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	W1 (mm)	W2 (mm)	S1 (mm)	S2 (mm)	D1 (mm)	D2 (mm)	
9200	2,5	Natural	400	24	5	M3	0,25	93,7	8	5,6	2,4	16	6	14,7	9	3	2,2	50/700
9201	4	Natural	400	32	7	M3	0,25	116,5	10	6	4	20,5	10	17,2	9,5	3,1	3,1	50/500
9202	6	Natural	400	41	7,5	M3.5	0,4	139,5	12	7,5	4,5	23,5	10	20,1	11,8	4,2	3,6	50/300
9203	16	Natural	450	76	8,5	M4	0,7	175,5	15	10,5	4,4	25,3	11	22,5	13	6	4,1	25/200
9204	25	Natural	500	101	11,5	M5	0,8	228	19,5	14	5,3	35,2	15	33,5	19	7,2	4,1	10/80

MULTIWAY TERMINAL BLOCKS · NYLON · FROM 1 TO 12 WAYS · N9201 SERIES





Standard version of the N9201 series

INSULATING HOUSING: polyamide (PA 6.6) natural color UL 94 V2

CONDUCTIVE BODY: nickel-plated brass

CAPTIVE SCREW IN: galvanized steel (M3)

INSULATION SELF-EXTINGUISHING: EN 60695-2-10 a 850 °C

CONDUCTOR TYPE: rigid and flexible

MAX OPERATING TEMPERATURE: 125 °C

MAX SHORT-TIME TEMPERATURE: 160 °C

TEST VOLTAGE: 2500 V

STRIPPING LENGTH: 7 mm

PROTECTION GRADE: IP20

ACCORDING TO STD.: EN 60998-1: 2004, EN 60998-2-1: 2004

	Section (mm²)	Section (AWG)	Rated voltage (V)	Test current (A)	Max operating temperature (°C)	Torque (Nm)
03	4	-	400	32	125	0,25
c UL us	-	18-14	600	15(**)	115	0,5

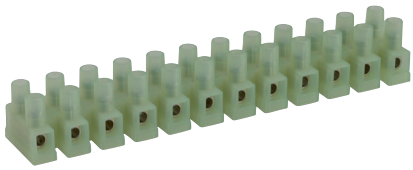
** 25 A rated for Factory Wiring Only

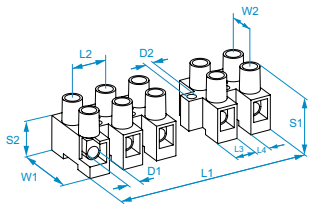
Code	Ways	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	W1 (mm)	W2 (mm)	S1 (mm)	S2 (mm)	D1 (mm)	D2 (mm)	
N9201/1	1	6	10	6,8	3,1	20,2	10	17,2	9,8	3,1	3,1	
N9201/2	2	16	10	6,8	3,1	20,2	10	17,2	9,8	3,1	3,1	
N9201/3	3	26	10	6,8	3,1	20,2	10	17,2	9,8	3,1	3,1	
N9201/4	4	36	10	6,8	3,1	20,2	10	17,2	9,8	3,1	3,1	
N9201/5	5	46	10	6,8	3,1	20,2	10	17,2	9,8	3,1	3,1	
N9201/6	6	56	10	6,8	3,1	20,2	10	17,2	9,8	3,1	3,1	Contact BM
N9201/7	7	66	10	6,8	3,1	20,2	10	17,2	9,8	3,1	3,1	
N9201/8	8	76	10	6,8	3,1	20,2	10	17,2	9,8	3,1	3,1	
N9201/9	9	86	10	6,8	3,1	20,2	10	17,2	9,8	3,1	3,1	
N9201/10	10	96	10	6,8	3,1	20,2	10	17,2	9,8	3,1	3,1	
N9201/11	11	106	10	6,8	3,1	20,2	10	17,2	9,8	3,1	3,1	
N9201	12	116,5	10	6,8	3,1	20,2	10	17,2	9,8	3,1	3,1	50/500

CE UKCA 03 c UL us file n° E 70156

HALOGEN FREE

MULTIWAY TERMINAL BLOCKS · NYLON · FROM 1 TO 12 WAYS · N9201 SERIES WITH WIRE PROTECTION





Wire protection version of the N9201 series
INSULATING HOUSING: polyamide (PA 6.6) natural color UL 94 V2
CONDUCTIVE BODY: nickel-plated brass
CAPTIVE SCREW IN: galvanized steel (M3)
WIRE PROTECTION: stainless steel
INSULATION SELF-EXTINGUISHING: EN 60695-2-10 a 850 °C
CONDUCTOR TYPE: rigid and flexible
MAX OPERATING TEMPERATURE: 125 °C
MAX SHORT-TIME TEMPERATURE: 160 °C
TEST VOLTAGE: 2500 V
STRIPPING LENGTH: 7 mm
PROTECTION GRADE: IP20
ACCORDING TO STD.: EN 60998-1: 2004, EN 60998-2-1: 2004

	Section (mm²)	Section (AWG)	Rated voltage (V)	Test current (A)	Max operating temperature (°C)	Torque (Nm)
03	2,5	-	400	24	125	0,25
c UL us	-	18-14	600	15 (**)	115	0,5

** 25 A rated for Factory Wiring Only

Code	Ways	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	W1 (mm)	W2 (mm)	S1 (mm)	S2 (mm)	D1 (mm)	D2 (mm)	
N9201CS1	1	6	10	6,8	3,1	20,2	10	17,2	9,8	3,1	3,1	
N9201CS2	2	16	10	6,8	3,1	20,2	10	17,2	9,8	3,1	3,1	
N9201CS3	3	26	10	6,8	3,1	20,2	10	17,2	9,8	3,1	3,1	
N9201CS4	4	36	10	6,8	3,1	20,2	10	17,2	9,8	3,1	3,1	
N9201CS5	5	46	10	6,8	3,1	20,2	10	17,2	9,8	3,1	3,1	
N9201CS6	6	56	10	6,8	3,1	20,2	10	17,2	9,8	3,1	3,1	Contact BM
N9201CS7	7	66	10	6,8	3,1	20,2	10	17,2	9,8	3,1	3,1	
N9201CS8	8	76	10	6,8	3,1	20,2	10	17,2	9,8	3,1	3,1	
N9201CS9	9	86	10	6,8	3,1	20,2	10	17,2	9,8	3,1	3,1	
N9201CS10	10	96	10	6,8	3,1	20,2	10	17,2	9,8	3,1	3,1	
N9201CS11	11	106	10	6,8	3,1	20,2	10	17,2	9,8	3,1	3,1	
N9201CS	12	116,5	10	6,8	3,1	20,2	10	17,2	9,8	3,1	3,1	50/500

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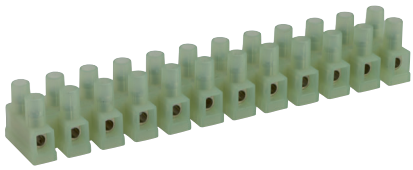
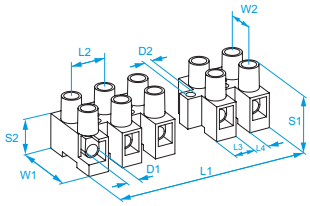
MULTIWAY TERMINAL BLOCKS · NYLON · FROM 1 TO 12 WAYS · N9202 SERIES





Standard version of the N9202 series

INSULATING HOUSING: polyamide (PA 6.6) natural color UL 94 V2

CONDUCTIVE BODY: nickel-plated brass

CAPTIVE SCREW IN: galvanized steel (M3,5)

INSULATION SELF-EXTINGUISHING: EN 60695-2-10 a 850 °C

CONDUCTOR TYPE: rigid and flexible

MAX OPERATING TEMPERATURE: 125 °C

MAX SHORT-TIME TEMPERATURE: 160 °C

TEST VOLTAGE: 2500 V

STRIPPING LENGTH: 7 mm

PROTECTION GRADE: IP20

ACCORDING TO STD.: EN 60998-1: 2004, EN 60998-2-1: 2004

	Section (mm²)	Section (AWG)	Rated voltage (V)	Test current (A)	Max operating temperature (°C)	Torque (Nm)
03	6	10	400	41	125	0,4

Code	Ways	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	W1 (mm)	W2 (mm)	S1 (mm)	S2 (mm)	D1 (mm)	D2 (mm)	
N9202/1	1	7,5	12	7,4	4,5	23	10	20,1	11,9	4,2	3,6	
N9202/2	2	19,5	12	7,4	4,5	23	10	20,1	11,9	4,2	3,6	
N9202/3	3	31,5	12	7,4	4,5	23	10	20,1	11,9	4,2	3,6	
N9202/4	4	43,5	12	7,4	4,5	23	10	20,1	11,9	4,2	3,6	
N9202/5	5	55,5	12	7,4	4,5	23	10	20,1	11,9	4,2	3,6	
N9202/6	6	67	12	7,4	4,5	23	10	20,1	11,9	4,2	3,6	Contact BM
N9202/7	7	79	12	7,4	4,5	23	10	20,1	11,9	4,2	3,6	
N9202/8	8	91	12	7,4	4,5	23	10	20,1	11,9	4,2	3,6	
N9202/9	9	103	12	7,4	4,5	23	10	20,1	11,9	4,2	3,6	
N9202/10	10	115	12	7,4	4,5	23	10	20,1	11,9	4,2	3,6	
N9202/11	11	127	12	7,4	4,5	23	10	20,1	11,9	4,2	3,6	
N9202	12	139,5	12	7,4	4,5	23	10	20,1	11,9	4,2	3,6	10/50

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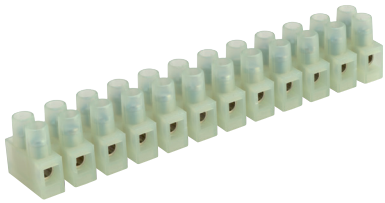
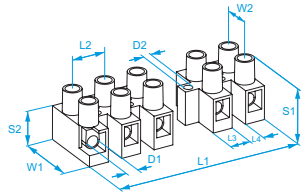
MULTIWAY TERMINAL BLOCKS · NYLON · FROM 1 TO 12 WAYS · M092 SERIES





Standard version of the M092 series

INSULATING HOUSING: polyamide (PA 6.6) natural color UL 94 V2

CONDUCTIVE BODY: nickel-plated brass

CAPTIVE SCREW IN: galvanized steel (M3)

INSULATION SELF-EXTINGUISHING: EN 60695-2-10 a 850 °C

CONDUCTOR TYPE: rigid and flexible

TEST VOLTAGE: 2500 V

STRIPPING LENGTH: 5 mm

PROTECTION GRADE: IP20

ACCORDING TO STD.: EN 60998-1: 2004, EN 60998-2-1: 2004

	Section (mm²)	Section (AWG)	Rated voltage (V)	Test current (A)	Max operating temperature (°C)	Torque (Nm)
03	2,5	-	250/380	24	125	0,25
c UL us	-	20-16	600	10 (*)	105	0,5

* 15 A rated for Factory Wiring Only

Code	Ways	Color	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	W1 (mm)	W2 (mm)	S1 (mm)	S2 (mm)	D1 (mm)	D2 (mm)	
92/1	1	Natural	5,6 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	
92/2	2	Natural	13,5 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	
92/3	3	Natural	21,5 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	
92/4	4	Natural	30 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	
92/5	5	Natural	37,5 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	
92/6	6	Natural	45,5 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	Contact BM
92/7	7	Natural	54 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	
92/8	8	Natural	61,5 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	
92/9	9	Natural	69,5 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	
92/10	10	Natural	77,5 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	
92/11	11	Natural	85,5 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	
M092	12	Natural	93,5 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	50/700

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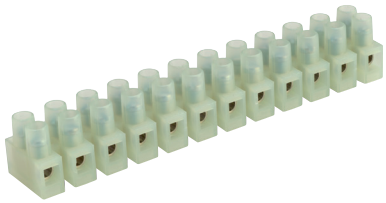
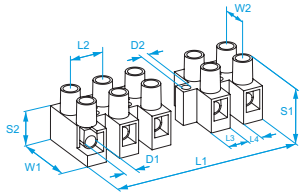
MULTIWAY TERMINAL BLOCKS · NYLON · FROM 1 TO 12 WAYS · M092 SERIES WITH WIRE PROTECTION





Wire protection version of the M092 series

INSULATING HOUSING: polyamide (PA 6.6) natural color UL 94 V2

CONDUCTIVE BODY: nickel-plated brass

CAPTIVE SCREW IN: galvanized steel (M3)

WIRE PROTECTION: stainless steel

INSULATION SELF-EXTINGUISHING: EN 60695-2-10 a 850 °C

CONDUCTOR TYPE: rigid and flexible

TEST VOLTAGE: 2500 V

STRIPPING LENGTH: 5 mm

PROTECTION GRADE: IP20

ACCORDING TO STD.: EN 60998-1: 2004, EN 60998-2-1: 2004

	Section (mm²)	Section (AWG)	Rated voltage (V)	Test current (A)	Max operating temperature (°C)	Torque (Nm)
03	2,5	-	250/380	24	125	0,25
c US	-	20-16	600	10 (*)	105	0,5

* 15 A rated for Factory Wiring Only

Code	Ways	Color	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	W1 (mm)	W2 (mm)	S1 (mm)	S2 (mm)	D1 (mm)	D2 (mm)	
92CS1	1	Natural	5,6 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	
92CS2	2	Natural	13,5 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	
92CS3	3	Natural	21,5 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	
92CS4	4	Natural	30 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	
92CS5	5	Natural	37,5 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	
92CS6	6	Natural	45,5 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	Contact BM
92CS7	7	Natural	54 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	
92CS8	8	Natural	61,5 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	
92CS9	9	Natural	69,5 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	
92CS10	10	Natural	77,5 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	
92CS11	11	Natural	85,5 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	
M92CS	12	Natural	93,5 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	50/700

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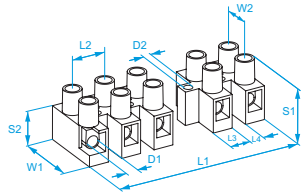
MULTIWAY TERMINAL BLOCKS · NYLON · FROM 1 TO 12 WAYS · M093 SERIES



Standard version of the M093 series

INSULATING HOUSING: polyamide (PA 6.6) natural color UL 94 V2

CONDUCTIVE BODY: nickel-plated brass

CAPTIVE SCREW IN: galvanized steel (M3)

INSULATION SELF-EXTINGUISHING: EN 60695-2-10 a 850 °C

CONDUCTOR TYPE: rigid and flexible

TEST VOLTAGE: 2500 V

STRIPPING LENGTH: 7 mm

PROTECTION GRADE: IP20

ACCORDING TO STD.: EN 60998-1: 2004, EN 60998-2-1: 2004

	Section (mm²)	Section (AWG)	Rated voltage (V)	Test current (A)	Max operating temperature (°C)	Torque (Nm)
03	4	-	400	32	125	0,25
c UL us	-	18-12	600	20 (*)	105	0,5

* 30 A rated for Factory Wiring Only

Code	Ways	Color	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	W1 (mm)	W2 (mm)	S1 (mm)	S2 (mm)	D1 (mm)	D2 (mm)	
93/1	1	Natural	6,7 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	
93/2	2	Natural	16,7 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	
93/3	3	Natural	26,6 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	
93/4	4	Natural	36,6 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	
93/5	5	Natural	46,6 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	
93/6	6	Natural	56,6 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	Contact BM
93/7	7	Natural	67 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	
93/8	8	Natural	77 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	
93/9	9	Natural	87 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	
93/10	10	Natural	97 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	
93/11	11	Natural	107 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	
M093	12	Natural	117 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	50/500

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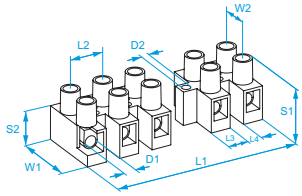
MULTIWAY TERMINAL BLOCKS · NYLON · FROM 1 TO 12 WAYS · M093 SERIES WITH WIRE PROTECTION



Wire protection version of the M093 series
INSULATING HOUSING: polyamide (PA 6.6) natural color UL 94 V2
CONDUCTIVE BODY: nickel-plated brass
CAPTIVE SCREW IN: galvanized steel (M3)
WIRE PROTECTION: stainless steel
INSULATION SELF-EXTINGUISHING: EN 60695-2-10 a 850 °C
CONDUCTOR TYPE: rigid and flexible
TEST VOLTAGE: 2500 V
STRIPPING LENGTH: 7 mm
PROTECTION GRADE: IP20
ACCORDING TO STD.: EN 60998-1: 2004, EN 60998-2-1: 2004

	Section (mm²)	Section (AWG)	Rated voltage (V)	Test current (A)	Max operating temperature (°C)	Torque (Nm)
03	2,5	-	400	24	125	0,25
c UL us	-	18-12	600	20 (*)	105	0,5

* 30 A rated for Factory Wiring Only

Code	Ways	Color	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	W1 (mm)	W2 (mm)	S1 (mm)	S2 (mm)	D1 (mm)	D2 (mm)	
93CS1	1	Natural	6,7 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	
93CS2	2	Natural	16,7 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	
93CS3	3	Natural	26,6 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	
93CS4	4	Natural	36,6 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	
93CS5	5	Natural	46,6 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	
93CS6	6	Natural	56,6 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	Contact BM
93CS7	7	Natural	67 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	
93CS8	8	Natural	77 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	
93CS9	9	Natural	87 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	
93CS10	10	Natural	97 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	
93CS11	11	Natural	107 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	
M93CS	12	Natural	117 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	50/500

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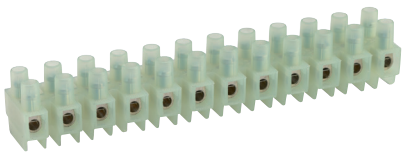
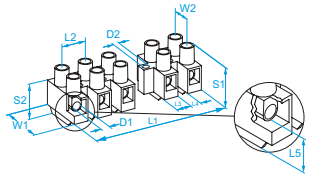
MULTIWAY TERMINAL BLOCKS · NYLON · FROM 1 TO 12 WAYS · M093H SERIES





Standard version of the M093H series

INSULATING HOUSING: polyamide (PA 6.6) natural color UL 94 V2

CONDUCTIVE BODY: nickel-plated brass

CAPTIVE SCREW IN: galvanized steel (M3)

INSULATION SELF-EXTINGUISHING: EN 60695-2-10 a 850 °C

CONDUCTOR TYPE: rigid and flexible

MAX SHORT-TIME TEMPERATURE: 200 °C

TEST VOLTAGE: 2500 V

STRIPPING LENGTH: 7 mm

PROTECTION GRADE: IP20

CLEARANCE: 8.5 mm to withstand 8000V rated impulse voltage (EN 60335-1, par.29)

ACCORDING TO STD.: EN 60998-1: 2004, EN 60998-2-1: 2004

	Section (mm²)	Section (AWG)	Rated voltage (V)	Test current (A)	Max operating temperature (°C)	Torque (Nm)
03	4	-	400	32	125	0,25
c UL us	-	18-12	600	20 (*)	105	0,5

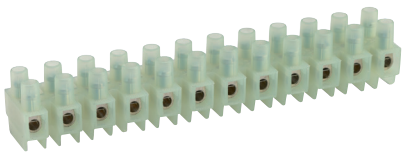
* 30 A rated for Factory Wiring Only

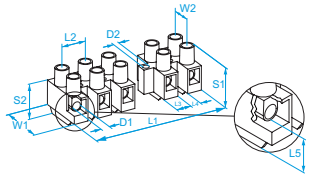
Code	Ways	Color	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	W1 (mm)	W2 (mm)	S1 (mm)	S2 (mm)	D1 (mm)	D2 (mm)	
M93H1	1	Natural	6,7 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	
M93H2	2	Natural	16,7 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	
M93H3	3	Natural	26,6 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	
M93H4	4	Natural	36,6 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	
M93H5	5	Natural	46,6 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	
M93H6	6	Natural	56,6 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	Contact BM
M93H7	7	Natural	67 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	
M93H8	8	Natural	77 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	
M93H9	9	Natural	87 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	
M93H10	10	Natural	97 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	
M93H11	11	Natural	107 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	
M093H	12	Natural	117 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	50/500

CE UKCA 03 c UL us file n° E 70156

HALOGEN FREE

MULTIWAY TERMINAL BLOCKS · NYLON · FROM 1 TO 12 WAYS · M093H SERIES WITH WIRE PROTECTION





Wire protection version of the M093H series

INSULATING HOUSING: polyamide (PA 6.6) natural color UL 94 V2

CONDUCTIVE BODY: nickel-plated brass

CAPTIVE SCREW IN: galvanized steel (M3)

WIRE PROTECTION: stainless steel

INSULATION SELF-EXTINGUISHING: EN 60695-2-10 a 850 °C

CONDUCTOR TYPE: rigid and flexible

TEST VOLTAGE: 2500 V

STRIPPING LENGTH: 7 mm

PROTECTION GRADE: IP20

CLEARANCE: 8.5 mm to withstand 8000V rated impulse voltage (EN 60335-1, par.29)

ACCORDING TO STD.: EN 60998-1: 2004, EN 60998-2-1: 2004

	Section (mm²)	Section (AWG)	Rated voltage (V)	Test current (A)	Max operating temperature (°C)	Torque (Nm)
03	2,5	-	400	24	125	0,25
c UL us	-	18-12	600	20 (*)	105	0,5

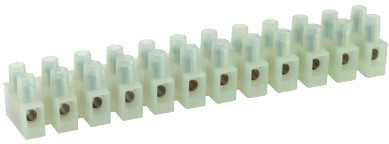
* 30 A rated for Factory Wiring Only

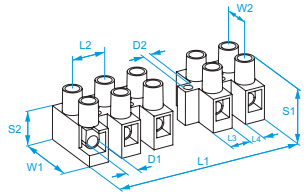
Code	Ways	Color	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	W1 (mm)	W2 (mm)	S1 (mm)	S2 (mm)	D1 (mm)	D2 (mm)	
93HCS1	1	Natural	67 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	
93HCS2	2	Natural	16,7 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	
93HCS3	3	Natural	26,6 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	
93HCS4	4	Natural	36,6 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	
93HCS5	5	Natural	46,6 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	
93HCS6	6	Natural	56,6 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	Contact BM
93HCS7	7	Natural	67 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	
93HCS8	8	Natural	77 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	
93HCS9	9	Natural	87 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	
93HCS10	10	Natural	97 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	
93HCS11	11	Natural	107 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	
M93HCS	12	Natural	117 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	50/500

CE UKCA 03 c UL us file n° E 70156

HALOGEN FREE

MULTIWAY TERMINAL BLOCKS · NYLON · FROM 1 TO 12 WAYS · M094 SERIES





Standard version of the M094 series

INSULATING HOUSING: polyamide (PA 6.6) natural color UL 94 V2

CONDUCTIVE BODY: nickel-plated brass

CAPTIVE SCREW IN: galvanized steel (M3,5)

INSULATION SELF-EXTINGUISHING: EN 60695-2-10 a 850 °C

CONDUCTOR TYPE: rigid and flexible

TEST VOLTAGE: 2500 V

STRIPPING LENGTH: 7.5 mm

PROTECTION GRADE: IP20

ACCORDING TO STD.: EN 60998-1: 2004, EN 60998-2-1: 2004

	Section (mm²)	Section (AWG)	Rated voltage (V)	Test current (A)	Max operating temperature (°C)	Torque (Nm)
03	6	-	400	41	125	0,7
c UL us	-	18-10	600	30 (*)	105	0,9

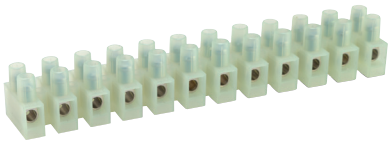
* 40 A rated for Factory Wiring Only

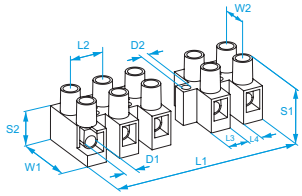
Code	Ways	Color	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	W1 (mm)	W2 (mm)	S1 (mm)	S2 (mm)	D1 (mm)	D2 (mm)	
94/1	1	Natural	7,5 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	
94/2	2	Natural	19,5 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	
94/3	3	Natural	31,5 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	
94/4	4	Natural	43,6 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	
94/5	5	Natural	55,5 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	
94/6	6	Natural	68 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	Contact BM
94/7	7	Natural	80 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	
94/8	8	Natural	92 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	
94/9	9	Natural	104 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	
94/10	10	Natural	116 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	
94/11	11	Natural	128 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	
M094	12	Natural	140 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	50/300

CE UKCA 03 c UL us file n° E 70156

HALOGEN FREE

MULTIWAY TERMINAL BLOCKS · NYLON · FROM 1 TO 12 WAYS · M094 SERIES WITH WIRE PROTECTION





Wire protection version of the M094 series

INSULATING HOUSING: polyamide (PA 6.6) natural color UL 94 V2

CONDUCTIVE BODY: nickel-plated brass

CAPTIVE SCREW IN: galvanized steel (M3,5)

WIRE PROTECTION: stainless steel

INSULATION SELF-EXTINGUISHING: EN 60695-2-10 a 850 °C

CONDUCTOR TYPE: rigid and flexible

TEST VOLTAGE: 2500 V

STRIPPING LENGTH: 7.5 mm

PROTECTION GRADE: IP20

ACCORDING TO STD.: EN 60998-1: 2004, EN 60998-2-1: 2004

	Section (mm²)	Section (AWG)	Rated voltage (V)	Test current (A)	Max operating temperature (°C)	Torque (Nm)
03	4	-	400	23	125	0,9
c UL us	-	18-10	600	30 (*)	105	0,9

* 40 A rated for Factory Wiring Only

Code	Ways	Color	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	W1 (mm)	W2 (mm)	S1 (mm)	S2 (mm)	D1 (mm)	D2 (mm)	
94CS1	1	Natural	7,5 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	
94CS2	2	Natural	19,5 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	
94CS3	3	Natural	31,5 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	
94CS4	4	Natural	43,6 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	
94CS5	5	Natural	55,5 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	
94CS6	6	Natural	68 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	Contact BM
94CS7	7	Natural	80 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	
94CS8	8	Natural	92 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	
94CS9	9	Natural	104 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	
94CS10	10	Natural	116 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	
94CS11	11	Natural	128 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	
M94CS	12	Natural	140 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	50/300

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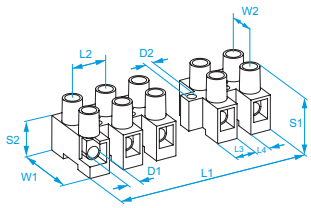
MULTIWAY TERMINAL BLOCKS · NYLON · FROM 1 TO 12 WAYS · M095 SERIES



Standard version of the M095 series

INSULATING HOUSING: polyamide (PA 6.6) natural color UL 94 V2

CONDUCTIVE BODY: nickel-plated brass

CAPTIVE SCREW IN: galvanized steel (M4)

INSULATION SELF-EXTINGUISHING: EN 60695-2-10 a 850 °C

CONDUCTOR TYPE: rigid and flexible

TEST VOLTAGE: 2500 V

STRIPPING LENGTH: 9 mm

PROTECTION GRADE: IP20

ACCORDING TO STD.: EN 60998-1: 2004, EN 60998-2-1: 2004

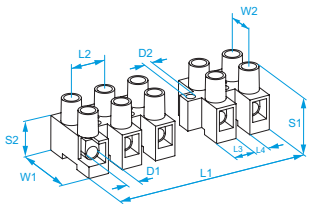
	Section (mm²)	Section (AWG)	Rated voltage (V)	Test current (A)	Max operating temperature (°C)	Torque (Nm)
03	10	-	400	57	125	0,7
c UL us	-	18-8	600	50	105	1,2

Code	Ways	Color	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	W1 (mm)	W2 (mm)	S1 (mm)	S2 (mm)	D1 (mm)	D2 (mm)	
95/1	1	Natural	9,5 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	
95/2	2	Natural	24,5 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	
95/3	3	Natural	39 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	
95/4	4	Natural	54,5 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	
95/5	5	Natural	69,5 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	
95/6	6	Natural	84 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	Contact BM
95/7	7	Natural	99 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	
95/8	8	Natural	114,5 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	
95/9	9	Natural	129,5 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	
95/10	10	Natural	145 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	
95/11	11	Natural	160,2 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	
M095	12	Natural	174 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	10/100

CE UKCA 03 c UL us file n° E 70156

HALOGEN FREE

MULTIWAY TERMINAL BLOCKS · NYLON · FROM 1 TO 12 WAYS · M095 SERIES WITH WIRE PROTECTION



INSULATING HOUSING: polyamide (PA 6.6) natural color UL 94 V2
CONDUCTIVE BODY: nickel-plated brass
CAPTIVE SCREW IN: galvanized steel (M4)
WIRE PROTECTION: stainless steel
INSULATION SELF-EXTINGUISHING: EN 60695-2-10 a 850 °C
CONDUCTOR TYPE: rigid and flexible
TEST VOLTAGE: 2500 V
STRIPPING LENGTH: 9 mm
PROTECTION GRADE: IP20
ACCORDING TO STD.: EN 60998-1: 2004, EN 60998-2-1: 2004

	Section (mm²)	Section (AWG)	Rated voltage (V)	Test current (A)	Max operating temperature (°C)	Torque (Nm)
03	6	-	400	41	125	0,7
c UL us	-	18-8	600	50	105	1,2

Code	Ways	Color	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	W1 (mm)	W2 (mm)	S1 (mm)	S2 (mm)	D1 (mm)	D2 (mm)	
95CS1	1	Natural	9,5 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	
95CS2	2	Natural	24,5 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	
95CS3	3	Natural	39 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	
95CS4	4	Natural	54,5 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	
95CS5	5	Natural	69,5 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	
95CS6	6	Natural	84 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	Contact BM
95CS7	7	Natural	99 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	
95CS8	8	Natural	114,5 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	
95CS9	9	Natural	129,5 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	
95CS10	10	Natural	145 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	
95CS11	11	Natural	160,2 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	
M95CS	12	Natural	174 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	10/100

CE UKCA 03 c UL us file n° E 70156

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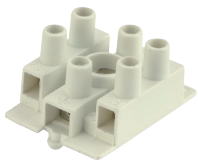
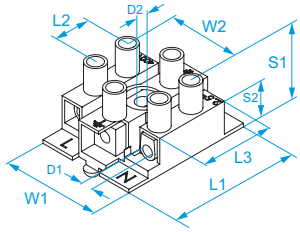
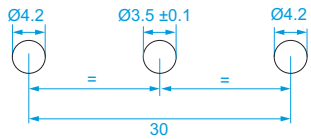
MULTIWAY TERMINAL BLOCKS · NYLON · 3-WAY · FOR DIRECT GROUNDING





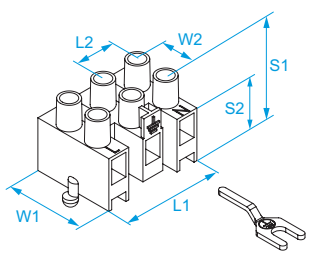


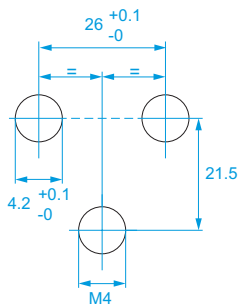
INSULATING HOUSING: polyamide (PA 6.6) natural color
CONDUCTIVE BODY: nickel-plated brass
CAPTIVE SCREW IN: galvanized steel (M3)
MARKING: L ⏚ N on the ways
INSULATION SELF-EXTINGUISHING: EN 60695-2-10 a 850 °C
CONDUCTOR TYPE: rigid and flexible
MAX OPERATING TEMPERATURE: 100 °C
MAX SHORT-TIME TEMPERATURE: 160 °C
TEST VOLTAGE: 2500 V
STRIPPING LENGTH: 11 mm
ACCORDING TO STD.: EN 60998-1: 2004, EN 60998-2-1: 2004
ASSEMBLY: Grounding screw hole for metal sheets with thickness up to 1 mm: Ø 3,5 ± 0,1. Drilling template as shown in the figure.
GROUNDING SCREW: M4x10

Code	Section (mm²)	Ways	Rated voltage (V)	Test current (A)	Torque (Nm)	L1 (mm)	L2 (mm)	L3 (mm)	W1 (mm)	W2 (mm)	S1 (mm)	S2 (mm)	D1 (mm)	D2 (mm)	
M096	2,5	3	400	24	0,25	36	10	24	27	20,5	17,5	10	3,1	4,2	1000/1000

HALOGEN FREE

MULTIWAY TERMINAL BLOCKS · NYLON · 3-WAY · FOR FIXING ON SHEET





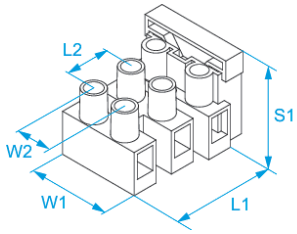
INSULATING HOUSING: polyamide (PA 6.6) white color
CONDUCTIVE BODY: nickel-plated brass
CAPTIVE SCREW IN: galvanized steel (M3)
GROUNDING FORK FOR M4 SCREW (T VERSION): brass

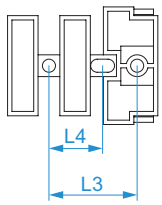
MARKING: L ⏚ N on the ways
INSULATION SELF-EXTINGUISHING: EN 60695-2-10 a 850 °C
CONDUCTOR TYPE: rigid and flexible
MAX OPERATING TEMPERATURE: 110 °C
MAX SHORT-TIME TEMPERATURE: 160 °C
TEST VOLTAGE: 2500 V
STRIPPING LENGTH: 7 mm
ACCORDING TO STD.: EN 60998-1: 2004, EN 60998-2-1: 2004
ASSEMBLY: Drilling template as shown in the figure. Fasten on metal sheets with 0,6 ÷ 1 mm thickness by pressing the pins.

Code	Description	Section (mm²)	Rated voltage (V)	Test current (A)	Torque (Nm)	L1 (mm)	L2 (mm)	W1 (mm)	W2 (mm)	S1 (mm)	S2 (mm)	
963		2,5	450	24	0,25	27	10	24,5	10	18,5	10,5	1000/1000
963CS	with stainless steel wire protection	2,5	450	24	0,25	27	10	24,5	10	18,5	10,5	1000/1000

HALOGEN FREE

MULTIWAY TERMINAL BLOCKS · NYLON · FROM 1 TO 5 WAYS · WITH FUSE HOLDER · M097 SERIES





Standard version of the M097 series

INSULATING HOUSING: polyamide (PA 6.6) white color

CONDUCTIVE BODY: nickel-plated brass

CAPTIVE SCREW IN: galvanized steel (M3)

FUSE: 5x20 fuse compliant to IEC 127 (not included)

INSULATION SELF-EXTINGUISHING: EN 60695-2-10 a 850 °C

CONDUCTOR TYPE: rigid and flexible

MAX OPERATING TEMPERATURE: 100 °C

MAX SHORT-TIME TEMPERATURE: 160 °C

TEST VOLTAGE: 2500 V

STRIPPING LENGTH: 7 mm

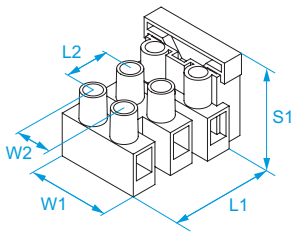
ACCORDING TO STD.: EN 60257, EN 60998-1: 2004, EN 60998-2-1: 2004

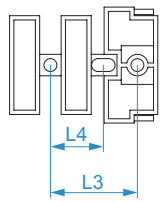
	Section (mm²)	Section (AWG)	Rated voltage (V)	Test current (A)	Max operating temperature (°C)	Torque (Nm)
03	2,5	-	450	24	100	0,25

Code	Ways	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	W1 (mm)	W2 (mm)	S1 (mm)	
971	1	12,85	10	20	10	21	10	22,7	100/100
972	2	22,05	10	20	10	21	10	22,7	100/100
973	3	32,05	10	20	10	21	10	22,7	100/100
974	4	42,05	10	20	10	21	10	22,7	100/100
975	5	52,05	10	20	10	21	10	22,7	100/100

HALOGEN FREE

MULTIWAY TERMINAL BLOCKS · NYLON · FROM 1 TO 5 WAYS · WITH FUSE HOLDER · M097 SERIES WITH WIRE PROTECTION





Wire protection version of the M097 series

INSULATING HOUSING: polyamide (PA 6.6) white color

CONDUCTIVE BODY: nickel-plated brass

CAPTIVE SCREW IN: galvanized steel (M3)

WIRE PROTECTION: stainless steel

FUSE: 5x20 fuse compliant to IEC 127 (not included)

INSULATION SELF-EXTINGUISHING: EN 60695-2-10 a 850 °C

CONDUCTOR TYPE: rigid and flexible

MAX OPERATING TEMPERATURE: 100 °C

MAX SHORT-TIME TEMPERATURE: 160 °C

TEST VOLTAGE: 2500 V

STRIPPING LENGTH: 7 mm

ACCORDING TO STD.: EN 60257, EN 60998-1: 2004, EN 60998-2-1: 2004

	Section (mm²)	Section (AWG)	Rated voltage (V)	Test current (A)	Max operating temperature (°C)	Torque (Nm)
03	2,5	-	450	24	100	0,25

Code	Ways	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	W1 (mm)	W2 (mm)	S1 (mm)	
971CS	1	12,85	10	20	10	21	10	22,7	100/100
972CS	2	22,05	10	20	10	21	10	22,7	100/100
973CS	3	32,05	10	20	10	21	10	22,7	100/100
974CS	4	42,05	10	20	10	21	10	22,7	100/100
975CS	5	52,05	10	20	10	21	10	22,7	100/100

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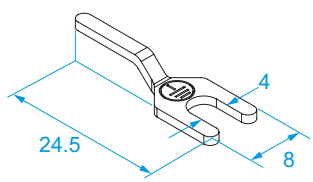
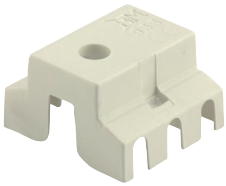
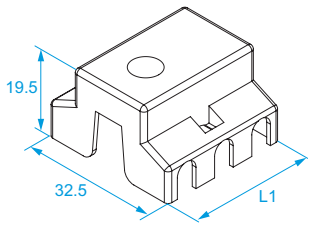
ACCESSORIES FOR 963/963CS AND M092, M093, M094 SERIES · FORK TERMINAL FOR GROUNDING



Code	Description	
963T	Fork terminal for grounding	100/1000

ACCESSORIES FOR M093 SERIES · PROTECTION COVERS · FROM 3 TO 5 WAYS





INSULATING HOUSING: polyamide (PA 6.6) natural color UL 94 V2

MAX OPERATING TEMPERATURE: 110 °C

ASSEMBLY: Snap onto M093 series terminal block or fasten with M3 screw through the through hole on the cover and terminal block.

Code	Terminal block ways	Color	L1 (mm)	
933	2-3	Natural	30	1000/1000
935	4-5	Natural	50	500/500

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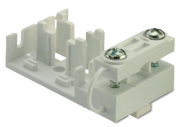
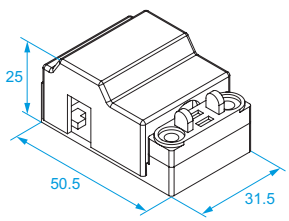
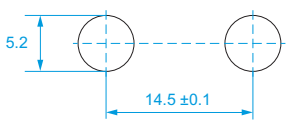
ACCESSORIES FOR M093 AND M094 SERIES · TERMINAL-BLOCK BASES · 3 WAYS







Polyamide holder with cable clamp and cover for M093 and M094 3 series terminal blocks.
The holder can be supplied without cover.

INSULATING HOUSING: polyamide (PA 6.6) natural color UL 94 V2

MAX OPERATING TEMPERATURE: 100 °C

ASSEMBLY: Drilling template as shown in the figure

Code	Description	Terminal block ways	
M0983	Holder for M093 series	3	1000/1000
M0984	Holder for M094 series	3	1000/1000
M098C	protection cover		500/500

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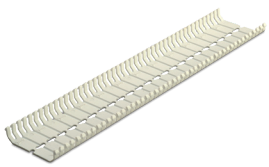
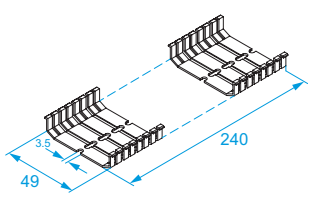
ACCESSORIES FOR M093 AND M094 SERIES · TERMINAL-BLOCK BASES · 24 WAYS





Accessory for properly routing input and output cables, to increase the insulation between terminal blocks and board, and to protect against accidental exit of conductors from the terminal block.
Pre-cut for easy sizing based on the number of terminal block poles.

INSULATING HOUSING: polyamide (PA 6.6) white color UL 94 V2

MAX OPERATING TEMPERATURE: 125 °C

Code	Terminal block ways	
M099	1-24	50/200

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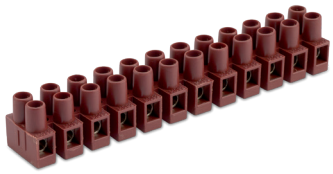
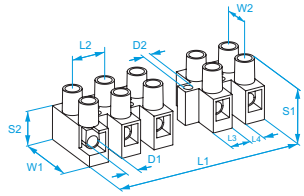
MULTIWAY TERMINAL BLOCKS · NYLON · FROM 1 TO 12 WAYS · M092 SERIES WITH FIBERGLASS





High temperature version of the M092 series

INSULATING HOUSING: polyamide (PA 6.6) brown color and 25% fiberglass UL 94 V0

CONDUCTIVE BODY: nickel-plated brass

CAPTIVE SCREW IN: galvanized steel (M3)

INSULATION SELF-EXTINGUISHING: EN 60335-1: 2002+A2:2006 (par. 30.2.3), EN 60695-2-10 a 850 °C, EN 60695-2-11

CONDUCTOR TYPE: rigid and flexible

MAX SHORT-TIME TEMPERATURE: 200 °C

TEST VOLTAGE: 2500 V

STRIPPING LENGTH: 5 mm

PROTECTION GRADE: IP20

ACCORDING TO STD.: EN 60998-1: 2004, EN 60998-2-1: 2004

	Section (mm²)	Section (AWG)	Rated voltage (V)	Test current (A)	Max operating temperature (°C)	Torque (Nm)
03	2,5	-	250	24	140	0,25
c UL us	-	20-16	600	10 (*)	110	0,5

* 15 A rated for Factory Wiring Only

Code	Ways	Color	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	W1 (mm)	W2 (mm)	S1 (mm)	S2 (mm)	D1 (mm)	D2 (mm)	
92GF1	1	Brown	5,6 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	
92GF2	2	Brown	13,5 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	
92GF3	3	Brown	21,5 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	
92GF4	4	Brown	30 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	
92GF5	5	Brown	37,5 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	
92GF6	6	Brown	45,5 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	Contact BM
92GF7	7	Brown	54 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	
92GF8	8	Brown	61,5 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	
92GF9	9	Brown	69,5 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	
92GF10	10	Brown	77,5 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	
92GF11	11	Brown	85,5 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	
M92GF	12	Brown	93,5 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	50/700

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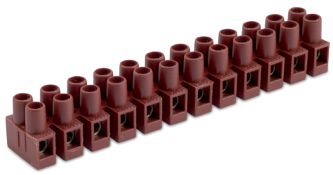
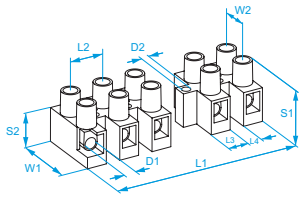
MULTIWAY TERMINAL BLOCKS · NYLON · FROM 1 TO 12 WAYS · M092 SERIES WITH FIBERGLASS AND WIRE PROTECTION





High temperature version with wire protection of the M092 series

INSULATING HOUSING: polyamide (PA 6.6) brown color and 25% fiberglass UL 94 V0

CONDUCTIVE BODY: nickel-plated brass

CAPTIVE SCREW IN: galvanized steel (M3)

WIRE PROTECTION: stainless steel

INSULATION SELF-EXTINGUISHING: EN 60335-1: 2002+A2:2006 (par. 30.2.3), EN 60695-2-10 a 850 °C, EN 60695-2-11

CONDUCTOR TYPE: rigid and flexible

MAX SHORT-TIME TEMPERATURE: 200 °C

TEST VOLTAGE: 2500 V

STRIPPING LENGTH: 5 mm

PROTECTION GRADE: IP20

ACCORDING TO STD.: EN 60998-1: 2004, EN 60998-2-1: 2004

	Section (mm^2)	Section (AWG)	Rated voltage (V)	Test current (A)	Max operating temperature (°C)	Torque (Nm)
03	2,5	-	250	24	140	0,25
c UL us	-	20-16	600	10 (*)	110	0,5

* 15 A rated for Factory Wiring Only

Code	Ways	Color	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	W1 (mm)	W2 (mm)	S1 (mm)	S2 (mm)	D1 (mm)	D2 (mm)	
92FS1	1	Brown	5,6 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	
92FS2	2	Brown	13,5 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	
92FS3	3	Brown	21,5 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	
92FS4	4	Brown	30 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	
92FS5	5	Brown	37,5 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	
92FS6	6	Brown	45,5 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	Contact BM
92FS7	7	Brown	54 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	
92FS8	8	Brown	61,5 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	
92FS9	9	Brown	69,5 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	
92FS10	10	Brown	77,5 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	
92FS11	11	Brown	85,5 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	
92GFCS	12	Brown	93,5 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	50/700

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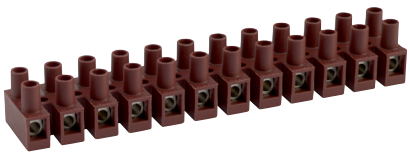
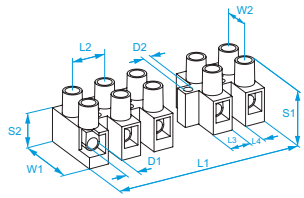
MULTIWAY TERMINAL BLOCKS · NYLON · FROM 1 TO 12 WAYS · M093 SERIES WITH FIBERGLASS





High temperature version of the M093 series

INSULATING HOUSING: polyamide (PA 6.6) brown color and 25% fiberglass UL 94 V0

CONDUCTIVE BODY: nickel-plated brass

CAPTIVE SCREW IN: galvanized steel (M3)

INSULATION SELF-EXTINGUISHING: EN 60335-1: 2002+A2:2006 (par. 30.2.3), EN 60695-2-10 a 850 °C, EN 60695-2-11

CONDUCTOR TYPE: rigid and flexible

MAX SHORT-TIME TEMPERATURE: 200 °C

TEST VOLTAGE: 2500 V

STRIPPING LENGTH: 7 mm

PROTECTION GRADE: IP20

ACCORDING TO STD.: EN 60998-1: 2004, EN 60998-2-1: 2004

	Section (mm²)	Section (AWG)	Rated voltage (V)	Test current (A)	Max operating temperature (°C)	Torque (Nm)
03	4	-	400	32	150	0,25
c UL us	-	18-12	600	20 (*)	110	0,5

* 30 A rated for Factory Wiring Only

Code	Ways	Color	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	W1 (mm)	W2 (mm)	S1 (mm)	S2 (mm)	D1 (mm)	D2 (mm)	
93GF1	1	Brown	6,7 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	
93GF2	2	Brown	16,7 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	
93GF3	3	Brown	26,6 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	
93GF4	4	Brown	36,6 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	
93GF5	5	Brown	46,6 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	
93GF6	6	Brown	56,6 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	Contact BM
93GF7	7	Brown	67 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	
93GF8	8	Brown	77 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	
93GF9	9	Brown	87 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	
93GF10	10	Brown	97 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	
93GF11	11	Brown	107 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	
M93GF	12	Brown	117 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	50/500

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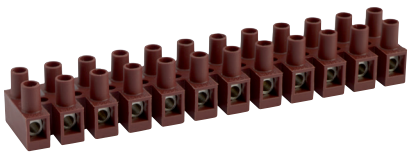
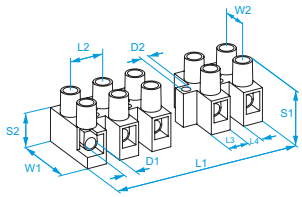
MULTIWAY TERMINAL BLOCKS · NYLON · FROM 1 TO 12 WAYS · M093 SERIES WITH FIBERGLASS AND WIRE PROTECTION





High temperature version with wire protection of the M093 series

INSULATING HOUSING: polyamide (PA 6.6) brown color and 25% fiberglass UL 94 V0

CONDUCTIVE BODY: nickel-plated brass

CAPTIVE SCREW IN: galvanized steel (M3)

WIRE PROTECTION: stainless steel

INSULATION SELF-EXTINGUISHING: EN 60335-1: 2002+A2:2006 (par. 30.2.3), EN 60695-2-10 a 850 °C, EN 60695-2-11

CONDUCTOR TYPE: rigid and flexible

MAX SHORT-TIME TEMPERATURE: 200 °C

TEST VOLTAGE: 2500 V

STRIPPING LENGTH: 7 mm

PROTECTION GRADE: IP20

ACCORDING TO STD.: EN 60998-1: 2004, EN 60998-2-1: 2004

	Section (mm²)	Section (AWG)	Rated voltage (V)	Test current (A)	Max operating temperature (°C)	Torque (Nm)
03	2.5	-	400	24	150	0,25
c UL us	-	18-12	600	20 (*)	110	0,5

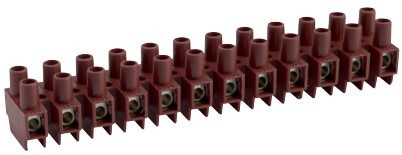
* 30 A rated for Factory Wiring Only

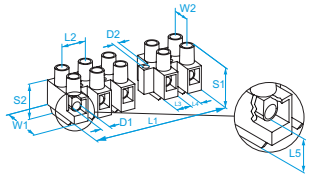
Code	Ways	Color	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	W1 (mm)	W2 (mm)	S1 (mm)	S2 (mm)	D1 (mm)	D2 (mm)	
93FS1	1	Brown	6,7 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	
93FS2	2	Brown	16,7 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	
93FS3	3	Brown	26,6 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	
93FS4	4	Brown	36,6 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	
93FS5	5	Brown	46,6 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	
93FS6	6	Brown	56,6 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	Contact BM
93FS7	7	Brown	67 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	
93FS8	8	Brown	77 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	
93FS9	9	Brown	87 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	
93FS10	10	Brown	97 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	
93FS11	11	Brown	107 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	
93GFCS	12	Brown	117 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	50/500

CE UKCA 03 c UL us file n° E 70156

HALOGEN FREE

MULTIWAY TERMINAL BLOCKS · NYLON · FROM 1 TO 12 WAYS · M093H SERIES WITH FIBERGLASS





High temperature version of the M093H series

INSULATING HOUSING: polyamide (PA 6.6) brown color and 25% fiberglass UL 94 V0

CONDUCTIVE BODY: nickel-plated brass

CAPTIVE SCREW IN: galvanized steel (M3)

INSULATION SELF-EXTINGUISHING: EN 60335-1: 2002+A2:2006 (par. 30.2.3), EN 60695-2-10 a 850 °C, EN 60695-2-11

CONDUCTOR TYPE: rigid and flexible

MAX SHORT-TIME TEMPERATURE: 200 °C

TEST VOLTAGE: 2500 V

STRIPPING LENGTH: 7 mm

PROTECTION GRADE: IP20

CLEARANCE: 8.5 mm to withstand 8000V rated impulse voltage (EN 60335-1, par.29)

ACCORDING TO STD.: EN 60998-1: 2004, EN 60998-2-1: 2004

	Section (mm²)	Section (AWG)	Rated voltage (V)	Test current (A)	Max operating temperature (°C)	Torque (Nm)
03	2,5	-	400	32	150	0,25
c UL us	-	18-12	600	20 (*)	110	0,5

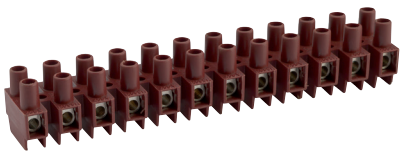
* 30 A rated for Factory Wiring Only

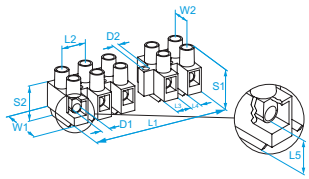
Code	Ways	Color	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	W1 (mm)	W2 (mm)	S1 (mm)	S2 (mm)	D1 (mm)	D2 (mm)	
93HGF1	1	Brown	6,7 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	
93HGF2	2	Brown	16,7 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	
93HGF3	3	Brown	26,6 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	
93HGF4	4	Brown	36,6 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	
93HGF5	5	Brown	46,6 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	
93HGF6	6	Brown	56,6 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	Contact BM
93HGF7	7	Brown	67 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	
93HGF8	8	Brown	77 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	
93HGF9	9	Brown	87 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	
93HGF10	10	Brown	97 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	
93HGF11	11	Brown	107 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	
M93HGF	12	Brown	117 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	50/500

CE UKCA 03 c UL us file n° E 70156

HALOGEN FREE

MULTIWAY TERMINAL BLOCKS · NYLON · FROM 1 TO 12 WAYS · M093H SERIES WITH FIBERGLASS AND WIRE PROTECTION





High temperature version with wire protection of the M093H series

INSULATING HOUSING: polyamide (PA 6.6) brown color and 25% fiberglass UL 94 V0

CONDUCTIVE BODY: nickel-plated brass

CAPTIVE SCREW IN: galvanized steel (M3)

WIRE PROTECTION: stainless steel

INSULATION SELF-EXTINGUISHING: EN 60335-1: 2002+A2:2006 (par. 30.2.3), EN 60695-2-10 a 850 °C, EN 60695-2-11

CONDUCTOR TYPE: rigid and flexible

MAX SHORT-TIME TEMPERATURE: 200 °C

TEST VOLTAGE: 2500 V

STRIPPING LENGTH: 7 mm

PROTECTION GRADE: IP20

CLEARANCE: 8.5 mm to withstand 8000V rated impulse voltage (EN 60335-1, par.29)

ACCORDING TO STD.: EN 60998-1: 2004, EN 60998-2-1: 2004

	Section (mm²)	Section (AWG)	Rated voltage (V)	Test current (A)	Max operating temperature (°C)	Torque (Nm)
03	2,5	-	400	24	150	0,25
c UL us	-	18-12	600	20 (*)	110	0,5

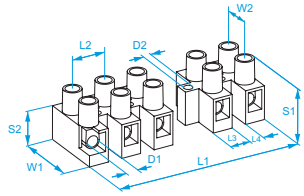
* 30 A rated for Factory Wiring Only

Code	Ways	Color	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	W1 (mm)	W2 (mm)	S1 (mm)	S2 (mm)	D1 (mm)	D2 (mm)	
93HFS1	1	Brown	6,7 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	
93HFS2	2	Brown	16,7 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	
93HFS3	3	Brown	26,6 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	
93HFS4	4	Brown	36,6 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	
93HFS5	5	Brown	46,6 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	
93HFS6	6	Brown	56,6 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	Contact BM
93HFS7	7	Brown	67 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	
93HFS8	8	Brown	77 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	
93HFS9	9	Brown	87 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	
93HFS10	10	Brown	97 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	
93HFS11	11	Brown	107 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	
M93HGFCS	12	Brown	117 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	50/500

CE UK CA 03 c UL us file n° E 70156

HALOGEN FREE

MULTIWAY TERMINAL BLOCKS · NYLON · FROM 1 TO 12 WAYS · M094 SERIES WITH FIBERGLASS



High temperature version of the M094 series

INSULATING HOUSING: polyamide (PA 6.6) brown color and 25% fiberglass UL 94 V0

CONDUCTIVE BODY: nickel-plated brass

CAPTIVE SCREW IN: galvanized steel (M3,5)

INSULATION SELF-EXTINGUISHING: EN 60335-1: 2002+A2:2006 (par. 30.2.3), EN 60695-2-10 a 850 °C, EN 60695-2-11

CONDUCTOR TYPE: rigid and flexible

MAX SHORT-TIME TEMPERATURE: 200 °C

TEST VOLTAGE: 2500 V

STRIPPING LENGTH: 7.5 mm

PROTECTION GRADE: IP20

ACCORDING TO STD.: EN 60998-1: 2004, EN 60998-2-1: 2004

	Section (mm²)	Section (AWG)	Rated voltage (V)	Test current (A)	Max operating temperature (°C)	Torque (Nm)
03	6	-	400	41	140	0,7
c UL us	-	18-10	600	30 (*)	110	0,9

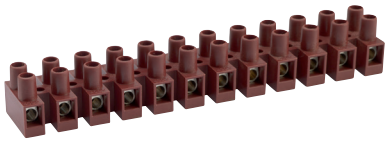
* 40 A rated for Factory Wiring Only

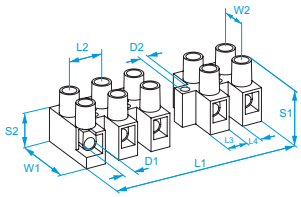
Code	Ways	Color	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	W1 (mm)	W2 (mm)	S1 (mm)	S2 (mm)	D1 (mm)	D2 (mm)	
94GF1	1	Brown	7,5 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	
94GF2	2	Brown	19,5 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	
94GF3	3	Brown	31,5 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	
94GF4	4	Brown	43,6 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	
94GF5	5	Brown	55,5 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	
94GF6	6	Brown	68 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	Contact BM
94GF7	7	Brown	80 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	
94GF8	8	Brown	92 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	
94GF9	9	Brown	104 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	
94GF10	10	Brown	116 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	
94GF11	11	Brown	128 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	
M94GF	12	Brown	140 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	50/300

CE UKCA 03 c UL us file n° E 70156

HALOGEN FREE

MULTIWAY TERMINAL BLOCKS · NYLON · FROM 1 TO 12 WAYS · M094 SERIES WITH FIBERGLASS AND WIRE PROTECTION





High temperature version with wire protection of the M094 series

INSULATING HOUSING: polyamide (PA 6.6) brown color and 25% fiberglass UL 94 V0

CONDUCTIVE BODY: nickel-plated brass

CAPTIVE SCREW IN: galvanized steel (M3,5)

WIRE PROTECTION: stainless steel

INSULATION SELF-EXTINGUISHING: EN 60335-1: 2002+A2:2006 (par. 30.2.3), EN 60695-2-10 a 850 °C, EN 60695-2-11

CONDUCTOR TYPE: rigid and flexible

MAX SHORT-TIME TEMPERATURE: 200 °C

TEST VOLTAGE: 2500 V

STRIPPING LENGTH: 7.5 mm

PROTECTION GRADE: IP20

ACCORDING TO STD.: EN 60998-1: 2004, EN 60998-2-1: 2004

	Section (mm²)	Section (AWG)	Rated voltage (V)	Test current (A)	Max operating temperature (°C)	Torque (Nm)
03	4	-	400	23	140	0,7
c UL us	-	18-10	600	30 (*)	110	0,9

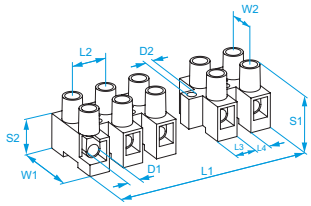
* 40 A rated for Factory Wiring Only

Code	Ways	Color	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	W1 (mm)	W2 (mm)	S1 (mm)	S2 (mm)	D1 (mm)	D2 (mm)	
94FS1	1	Brown	7,5 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	
94FS2	2	Brown	19,5 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	
94FS3	3	Brown	31,5 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	
94FS4	4	Brown	43,6 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	
94FS5	5	Brown	55,5 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	
94FS6	6	Brown	68 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	Contact BM
94FS7	7	Brown	80 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	
94FS8	8	Brown	92 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	
94FS9	9	Brown	104 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	
94FS11	11	Brown	128 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	
94FS10	10	Brown	116 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	
94GFCS	12	Brown	140 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	50/300

CE UKCA 03 c UL us file n° E 70156

HALOGEN FREE

MULTIWAY TERMINAL BLOCKS · NYLON · FROM 1 TO 12 WAYS · M095 SERIES WITH FIBERGLASS



High temperature version of the M095 series

INSULATING HOUSING: polyamide (PA 6.6) brown color and 25% fiberglass UL 94 V0

CONDUCTIVE BODY: nickel-plated brass

CAPTIVE SCREW IN: galvanized steel (M4)

INSULATION SELF-EXTINGUISHING: EN 60335-1: 2002+A2:2006 (par. 30.2.3), EN 60695-2-10 a 850 °C, EN 60695-2-11

CONDUCTOR TYPE: rigid and flexible

MAX SHORT-TIME TEMPERATURE: 200 °C

TEST VOLTAGE: 2500 V

STRIPPING LENGTH: 9 mm

PROTECTION GRADE: IP20

ACCORDING TO STD.: EN 60998-1: 2004, EN 60998-2-1: 2004

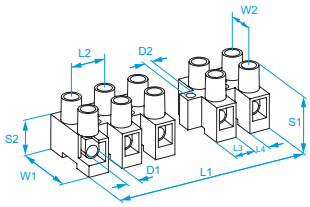
	Section (mm²)	Section (AWG)	Rated voltage (V)	Test current (A)	Max operating temperature (°C)	Torque (Nm)
03	10	-	400	57	140	0,7
c UL us	-	18-8	600	50	110	1,2

Code	Ways	Color	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	W1 (mm)	W2 (mm)	S1 (mm)	S2 (mm)	D1 (mm)	D2 (mm)	
95GF1	1	Brown	9,5 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	
95GF2	2	Brown	24,5 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	
95GF3	3	Brown	39 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	
95GF4	4	Brown	54,5 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	
95GF5	5	Brown	69,5 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	
95GF6	6	Brown	84 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	Contact BM
95GF7	7	Brown	99 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	
95GF8	8	Brown	114,5 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	
95GF9	9	Brown	129,5 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	
95GF10	10	Brown	145 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	
95GF11	11	Brown	160,2 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	
M95GF	12	Brown	174 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	10/100

CE UKCA 03 c UL us file n° E 70156

HALOGEN FREE

MULTIWAY TERMINAL BLOCKS · NYLON · FROM 1 TO 12 WAYS · M095 SERIES WITH FIBERGLASS AND WIRE PROTECTION



High temperature version with wire protection of the M095 series

INSULATING HOUSING: polyamide (PA 6.6) brown color and 25% fiberglass UL 94 V0

CONDUCTIVE BODY: nickel-plated brass

CAPTIVE SCREW IN: galvanized steel (M4)

WIRE PROTECTION: stainless steel

INSULATION SELF-EXTINGUISHING: EN 60335-1: 2002+A2:2006 (par. 30.2.3), EN 60695-2-10 a 850 °C, EN 60695-2-11

CONDUCTOR TYPE: rigid and flexible

MAX SHORT-TIME TEMPERATURE: 200 °C

TEST VOLTAGE: 2500 V

STRIPPING LENGTH: 9 mm

PROTECTION GRADE: IP20

ACCORDING TO STD.: EN 60998-1: 2004, EN 60998-2-1: 2004

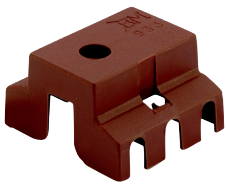
	Section (mm²)	Section (AWG)	Rated voltage (V)	Test current (A)	Max operating temperature (°C)	Torque (Nm)
03	6	-	400	41	140	0,7
c UL us	-	18-8	600	50	110	1,2

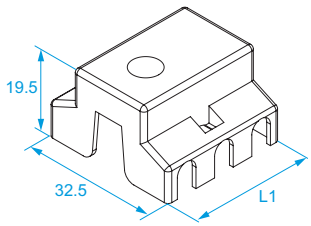
Code	Ways	Color	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	W1 (mm)	W2 (mm)	S1 (mm)	S2 (mm)	D1 (mm)	D2 (mm)	
95FS1	1	Brown	9,5 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	
95FS2	2	Brown	24,5 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	
95FS3	3	Brown	39 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	
95FS4	4	Brown	54,5 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	
95FS5	5	Brown	69,5 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	
95FS6	6	Brown	84 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	Contact BM
95FS7	7	Brown	99 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	
95FS8	8	Brown	114,5 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	
95FS9	9	Brown	129,5 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	
95FS10	10	Brown	145 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	
95FS11	11	Brown	160,2 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	
95GFCS	12	Brown	174 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	10/100

CE UKCA 03 c UL us file n° E 70156

HALOGEN FREE

ACCESSORIES FOR M093 SERIES · PROTECTION COVERS WITH FIBERGLASS · FROM 3 TO 5 WAYS





INSULATING HOUSING: polyamide (PA 6.6) brown color and 25% fiberglass UL 94 V0

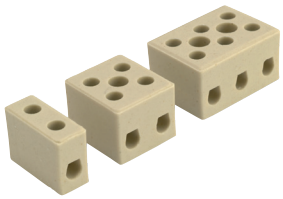
MAX OPERATING TEMPERATURE: 150 °C

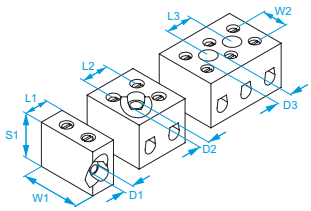
ASSEMBLY: Snap onto M093 series terminal block or fasten with M3 screw through the through hole on the cover and terminal block.

Code	Terminal block ways	Color	L1 (mm)	
933GF	2-3	Brown	30	1000/1000
935GF	4-5	Brown	50	500/500

HALOGEN FREE

MULTIWAY TERMINAL BLOCKS · STEATITE





Terminal blocks for high temperature applications
INSULATING HOUSING: steatite
CONDUCTIVE BODY: brass
SCREW: galvanized steel
CONDUCTOR TYPE: rigid and flexible
MOUNTING HOLE: through hole (no threaded)
MAX OPERATING TEMPERATURE (METALLIC PARTS): 300 °C
MAX OPERATING TEMPERATURE (INSULATING HOUSING): 1000 °C
RATED VOLTAGE: 450 V
PROTECTION GRADE: IP00
ACCORDING TO STD.: EN 60998-1: 2004, EN 60998-2-1: 2004

Code	Section (mm²)	Ways	Test current (A)	Screw	Torque (Nm)	L1 (mm)	L2 (mm)	L3 (mm)	W1 (mm)	W2 (mm)	S1 (mm)	D1 (mm)	D2 (mm)	D3 (mm)	
9516	4	1	32	M3	0,25	10			25	10	18,5	3,1			117/117
9517		2	32	M3	0,25	22	11,5		25	10	18,5	3,1	4,1	5,8	54/54
9518		3	32	M3	0,25	34	11,5	11,5	25	10	18,5	3,1	4,1	6,5	36/36
9519	6	1	41	M3.5	0,4	11			26	10	20,5	4,2			117/117
9520		2	41	M3.5	0,4	24	12,5		26	10	20,5	4,2	4	5,8	54/54
9521		3	41	M3.5	0,4	37	12,5	12,5	26	10	20,5	4,2	4	7,3	36/36
9522	16	1	76	M4	0,7	15			32,5	13	23	6			54/54
9523		2	76	M4	0,7	30	14,8		32,5	13	23	6	4	6,9	27/27
9524		3	76	M4	0,7	45	14,8	14,8	32,5	13	23	6	4,1	7,9	18/18

300 °C

CABLE-GLANDS

NYLON CABLE GLANDS pag. 160

BRASS CABLE GLANDS pag. 176

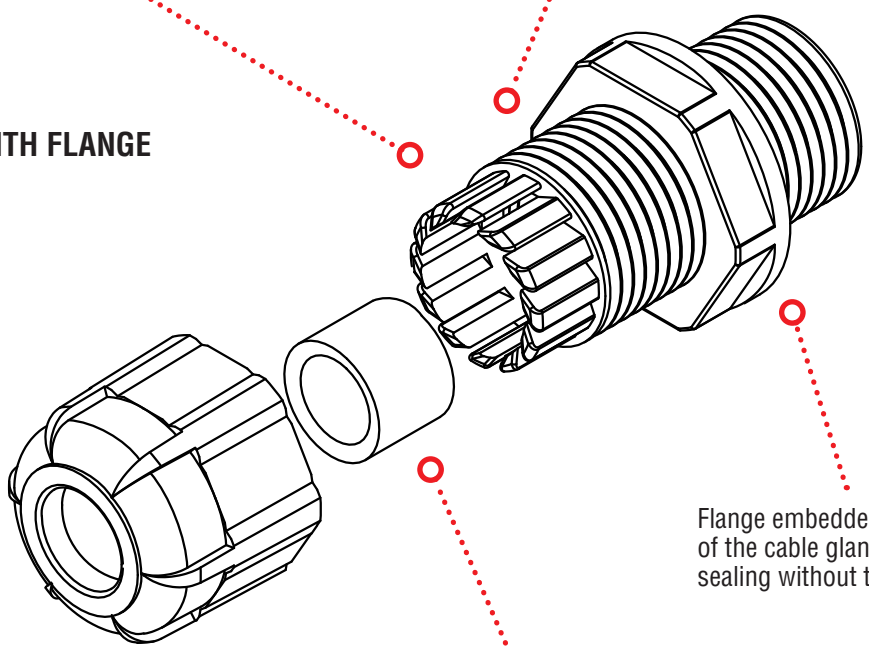
ACCESSORIES pag. 183

CERTIFIED CABLE GLANDS FOR ELECTRICAL INSTALLATIONS

Cable gland with a thread design engineered to ensure excellent mechanical sealing and prevent accidental unscrewing.

Sealing slots that allow for smooth progressive clamping and provide remarkable resistance to the cable's traction and twist.

CABLE GLAND WITH FLANGE PG THREAD IP68



Flange embedded directly on the body of the cable gland guaranteeing IP68 sealing without the need of a gasket.

Pressure-screw with strengthened hexagon that allows easy and secure screwing.

Nitrile rubber inner gasket that guarantees perfect IP68 sealing on the cable.

CE UKCA UL LISTED file n° E171361 file n° E171361 IP68

Find detailed information about this product on page 168

CABLE GLANDS: CORRECT INSTALLATION

THREAD DIAMETER · INSTALLATION HOLE DIAMETER

Metric Thread EN 60423

		M 12x1,5	M 16x1,5	M 20x1,5	M 25x1,5	M 32x1,5	M 40x1,5	M 50x1,5	M 63x1,5
Thread diameter	mm	12	16	20	25	32	40	50	63
Hole diameter	mm	12,5	16,5	20,5	25,5	32,5	40,5	50,5	63,5

PG Thread DIN 40430

		PG 7	PG 9	PG 11	PG 13,5	PG 16	PG 21	PG 29	PG 36	PG 42	PG 48
Thread diameter	mm	12,5	15,2	18,6	20,4	22,5	28,3	37	47	54	59,3
Hole diameter	mm	13	15,5	19	21	23	28,5	37,5	47,5	54,5	60

GAS Thread ISO 228/1

		GAS					GAS 1				GAS 2		GAS 3
		1/4	3/8	1/2	5/8	3/4	GAS 1	1/8	1/4	1/2	GAS 2	1/2	GAS 3
Thread diameter	mm	13,2	16,7	21	22,9	26,4	33,3	37,9	41,9	47,8	59,6	75,2	87,9
Hole diameter	mm	13,5	17	21,5	23,5	27	33,5	38,5	42,5	48	60	75,5	88,5

MINIMUM TORQUE VALUE TO GUARANTEE IP68 PROTECTTION

Metric Thread EN 60423

		M 12x1,5	M 16x1,5	M 20x1,5	M 25x1,5	M 32x1,5	M 40x1,5	M 50x1,5	M 63x1,5
Head torque	(Nm)	2	2,5	5	6	7	10	11,5	12,5

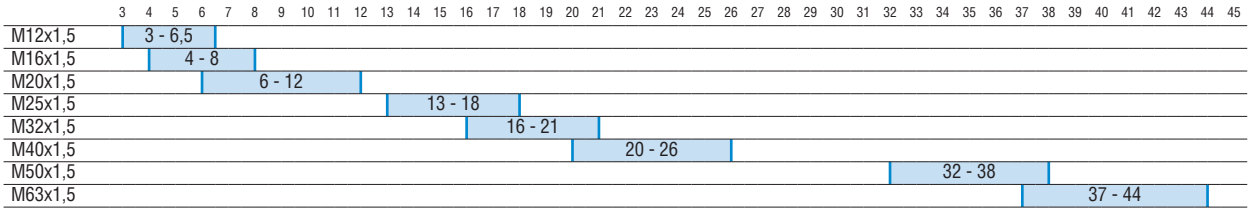
PG Thread DIN 40430

		PG 7	PG 9	PG 11	PG 13,5	PG 16	PG 21	PG 29	PG 36	PG 42	PG 48
Head torque	(Nm)	2,5	3,75	3,75	5	6	7	10	11,5	12,5	12,5

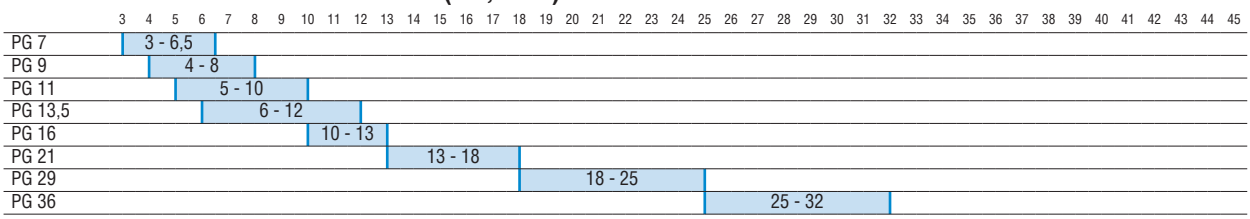
NYLON CABLE GLANDS

CLAMPING RANGE

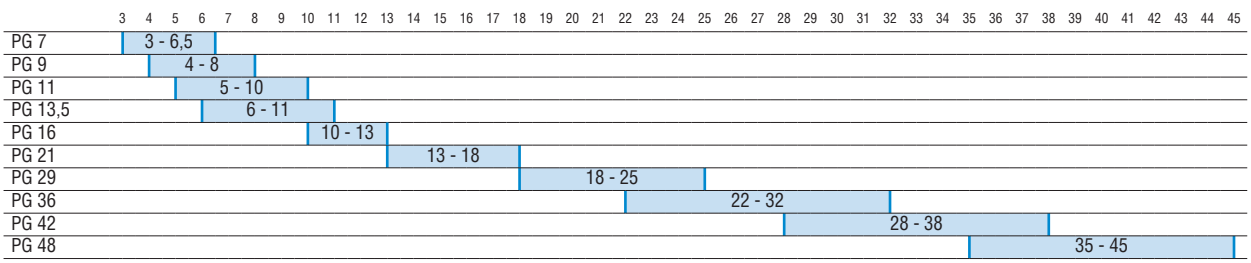
METRIC THREAD IP68 CLAMPING RANGE



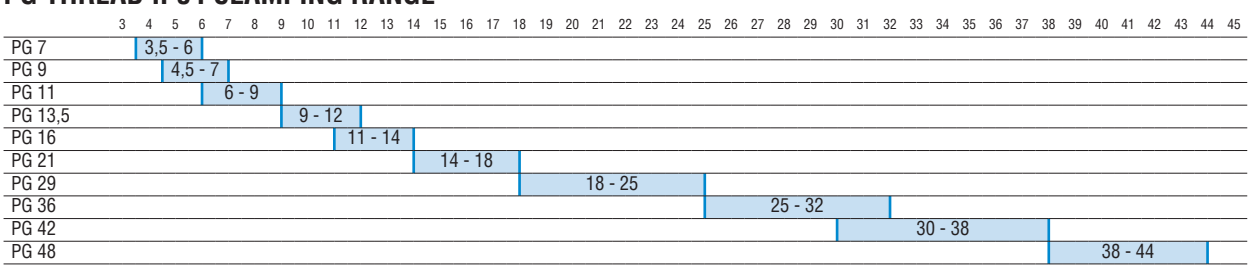
PG THREAD IP68 CLAMPING RANGE (UL, CSA)



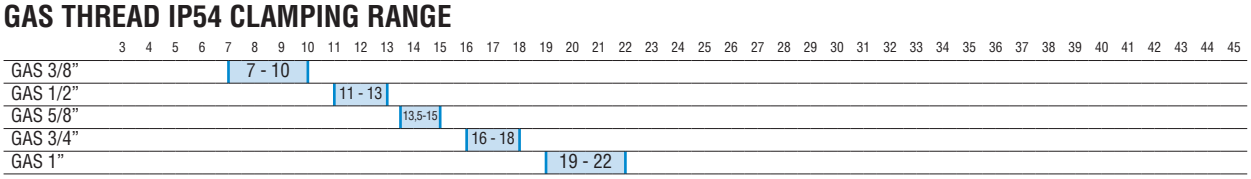
PG THREAD IP68 CLAMPING RANGE



PG THREAD IP54 CLAMPING RANGE



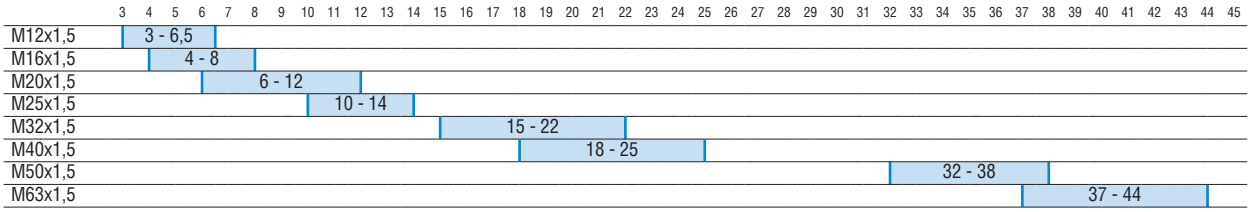
GAS THREAD IP54 CLAMPING RANGE



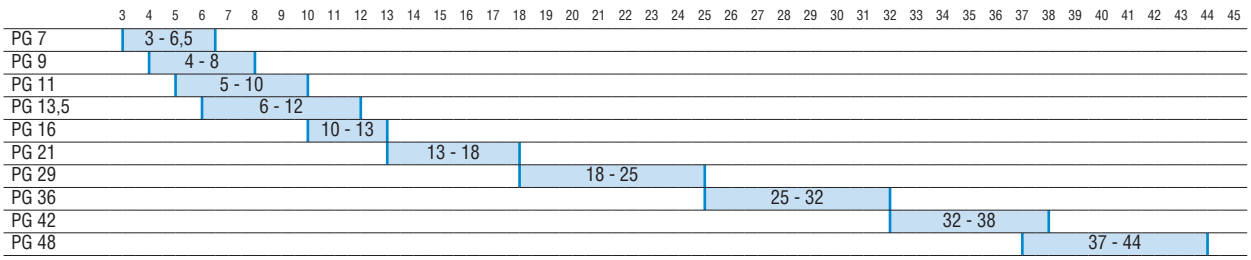
BRASS CABLE GLANDS

CLAMPING RANGE

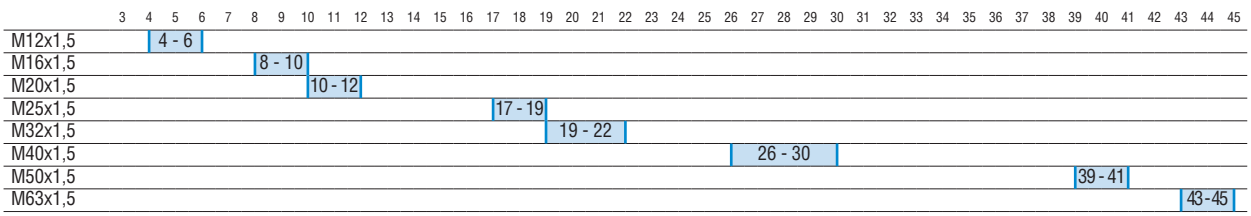
METRIC THREAD IP68 CLAMPING RANGE



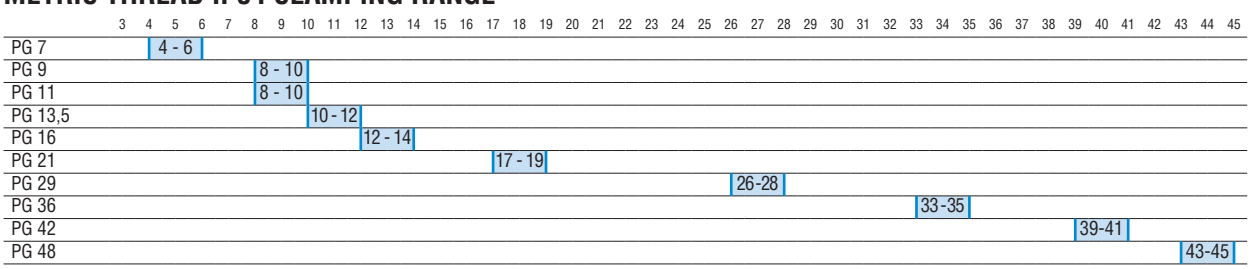
PG THREAD IP68 CLAMPING RANGE



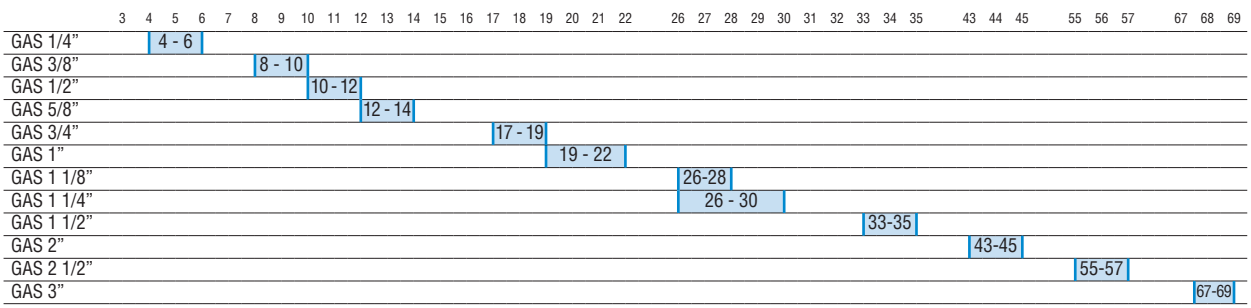
METRIC THREAD IP54 CLAMPING RANGE



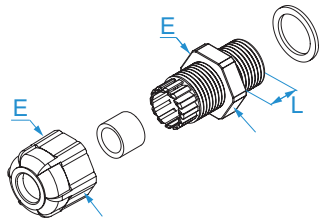
METRIC THREAD IP54 CLAMPING RANGE



GAS THREAD IP54 CLAMPING RANGE



NYLON CABLE GLANDS · METRIC THREAD · IP68 · STANDARD



MATERIAL: polyamide (PA 6.6), self-extinguishing according to UL 94 V2 and IEC 695-2-1 (850 °C)

OPERATING TEMPERATURE: from -20 °C to +90 °C

INNER GASKET AND WASHER: NBR (nitrile rubber), 70 Shore A

ACCORDING TO STD.: EN 62444:2013

ASSEMBLY: don't remove or move the gasket; tighten on a flat and smooth surface.

Code	Color	Metric thread size (EN60423)	Ø cable (mm)	L (mm)	E wrench (nut)	
4912	Grey RAL 7035	M 12 x 1.5	3 - 6,5	9	16	50/250
4912N	Black RAL 9005		3 - 6,5	9	16	50/50
4917	Grey RAL 7035	M 16 x 1.5	4 - 8	9	19	50/250
4917N	Black RAL 9005		4 - 8	9	19	50/250
4920	Grey RAL 7035	M 20 x 1.5	6 - 12	10	24	25/125
4920N	Black RAL 9005		6 - 12	10	24	25/250
4925	Grey RAL 7035	M 25 x 1.5	13 - 18	12	33	25/125
4925N	Black RAL 9005		13 - 18	12	33	25/25
4932	Grey RAL 7035	M 32 x 1.5	16 - 21	12	36	20/100
4932N	Black RAL 9005		16 - 21	12	36	20/20
4940	Grey RAL 7035	M 40 x 1.5	20 - 26	15	46	10/50
4940N	Black RAL 9005		20 - 26	15	46	10/10
4950	Grey RAL 7035	M 50 x 1.5	32 - 38	18	60	5/25
4950N	Black RAL 9005		32 - 38	18	60	5/5
4963	Grey RAL 7035	M 63 x 1.5	37 - 44	18	68	5/5
4963N	Black RAL 9005		37 - 44	18	68	5/5

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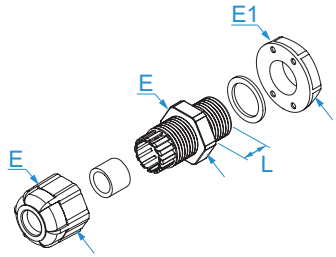
HALOGEN FREE

IP68

NYLON CABLE GLANDS · METRIC THREAD · IP68 · WITH LOCKNUT



MATERIAL: polyamide (PA 6.6), self-extinguishing according to UL 94 V2 and IEC 695-2-1 (850 °C)

LOCKNUT: with flange

OPERATING TEMPERATURE: from -20 °C to +90 °C

INNER GASKET AND WASHER: NBR (nitrile rubber), 70 Shore A

ACCORDING TO STD.: EN 62444:2013

ASSEMBLY: do not remove or move the gasket; tighten on a flat and smooth surface.

Code	Color	Metric thread size (EN60423)	Ø cable (mm)	L (mm)	E wrench (nut)	E1 wrench (locknut)	
4712	Grey RAL 7035	M 12 x 1.5	3 - 6,5	9	16	17	25/250
4712N	Black RAL 9005		3 - 6,5	9	16	17	25/25
4717	Grey RAL 7035	M 16 x 1.5	4 - 8	9	19	22	25/250
4717N	Black RAL 9005		4 - 8	9	19	22	25/250
4720	Grey RAL 7035	M 20 x 1.5	6 - 12	10	24	26	25/250
4720N	Black RAL 9005		6 - 12	10	24	26	25/25
4725	Grey RAL 7035	M 25 x 1.5	13 - 18	12	33	32	20/100
4725N	Black RAL 9005		13 - 18	12	33	32	20/20
4732	Grey RAL 7035	M 32 x 1.5	16 - 21	12	36	41	20/100
4732N	Black RAL 9005		16 - 21	12	36	41	20/20
4740	Grey RAL 7035	M 40 x 1.5	20 - 26	15	46	49	10/10
4740N	Black RAL 9005		20 - 26	15	46	49	10/10
4750	Grey RAL 7035	M 50 x 1.5	32 - 38	18	60	61	5/5
4750N	Black RAL 9005		32 - 38	18	60	61	5/5
4763	Grey RAL 7035	M 63 x 1.5	37 - 44	18	68	73	5/5
4763N	Black RAL 9005		37 - 44	18	68	73	5/5

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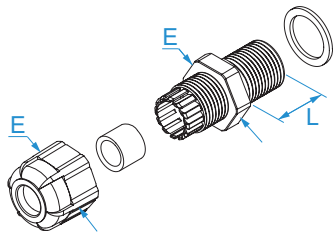
HALOGEN FREE

IP68

NYLON CABLE GLANDS · METRIC THREAD · IP68 · WITH LONG THREAD



MATERIAL: polyamide (PA 6.6), self-extinguishing according to UL 94 V2 and IEC 695-2-1 (850 °C)

OPERATING TEMPERATURE: from -20 °C to +90 °C

INNER GASKET AND WASHER: NBR (nitrile rubber), 70 Shore A

ACCORDING TO STD.: EN 62444:2013

ASSEMBLY: do not remove or move the gasket; tighten on a flat and smooth surface.

Code	Color	Metric thread size (EN60423)	Ø cable (mm)	L (mm)	E wrench (nut)	
4912L	Grey RAL 7035	M 12 x 1.5	3 - 6,5	15	16	25/25
4912LN	Black RAL 9005		3 - 6,5	15	16	25/250
4917L	Grey RAL 7035	M 16 x 1.5	4 - 8	15	19	25/250
4917LN	Black RAL 9005		4 - 8	15	19	25/250
4920L	Grey RAL 7035	M 20 x 1.5	6 - 12	15	24	10/100
4920LN	Black RAL 9005		6 - 12	15	24	10/10
4925L	Grey RAL 7035	M 25 x 1.5	13 - 18	15	33	10/100
4925LN	Black RAL 9005		13 - 18	15	33	10/100
4932L	Grey RAL 7035	M 32 x 1.5	16 - 21	15	36	10/10
4932LN	Black RAL 9005		16 - 21	15	36	10/10
4940L	Grey RAL 7035	M 40 x 1.5	20 - 26	18	46	5/5
4940LN	Black RAL 9005		20 - 26	18	46	5/50
4950L	Grey RAL 7035	M 50 x 1.5	32 - 38	20	60	3/3
4950LN	Black RAL 9005		32 - 38	20	60	3/30
4963L	Grey RAL 7035	M 63 x 1.5	37 - 44	20	68	3/3
4963LN	Black RAL 9005		37 - 44	20	68	3/30

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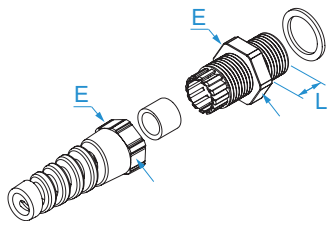
HALOGEN FREE

IP68

NYLON CABLE GLANDS · METRIC THREAD · IP68 · WITH SPIRAL CABLE PROTECTION



MATERIAL: polyamide (PA 6.6), self-extinguishing according to UL 94 V2 and IEC 695-2-1 (850 °C)

OPERATING TEMPERATURE: from -20 °C to +90 °C

INNER GASKET AND WASHER: NBR (nitrile rubber), 70 Shore A

ACCORDING TO STD.: EN 62444:2013

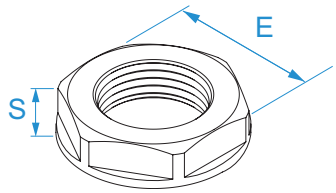
ASSEMBLY: do not remove or move the gasket; tighten on a flat and smooth surface.

Code	Color	Metric thread size (EN60423)	Ø cable (mm)	L (mm)	E wrench (nut)	
4912S	Grey RAL 7035	M 12 x 1.5	3 - 6,5	15	16	25/250
4912SN	Black RAL 9005		3 - 6,5	15	16	25/25
4917S	Grey RAL 7035	M 16 x 1.5	4 - 8	15	19	25/25
4917SN	Black RAL 9005		4 - 8	15	19	25/25
4920S	Grey RAL 7035	M 20 x 1.5	6 - 12	15	24	10/10
4920SN	Black RAL 9005		6 - 12	15	24	10/100
4925S	Grey RAL 7035	M 25 x 1.5	13 - 18	15	33	10/10
4925SN	Black RAL 9005		13 - 18	15	33	10/10

CE UKCA HALOGEN FREE IP68

ACCESSORIES FOR NYLON CABLE GLANDS: METRIC THREAD · HEXAGONAL LOCKNUTS WITH FLANGE

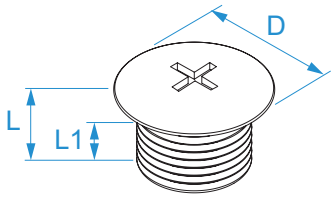
MATERIAL: polyamide reinforced with fiberglass
OPERATING TEMPERATURE: from -20 °C to +90 °C



Code	Color	Metric thread size (EN60423)	E wrench (nut)	S (mm)	
4812	Grey RAL 7035	M 12 x 1.5	17	5	100/100
4812N	Black RAL 9005		17	5	100/100
4817	Grey RAL 7035	M 16 x 1.5	22	5	100/100
4817N	Black RAL 9005		22	5	100/100
4820	Grey RAL 7035	M 20 x 1.5	26	6	100/100
4820N	Black RAL 9005		26	6	100/100
4825	Grey RAL 7035	M 25 x 1.5	32	6	100/100
4825N	Black RAL 9005		32	6	100/100
4832	Grey RAL 7035	M 32 x 1.5	41	7	50/50
4832N	Black RAL 9005		41	7	50/50
4840	Grey RAL 7035	M 40 x 1.5	50	7	25/25
4840N	Black RAL 9005		50	7	25/25
4850	Grey RAL 7035	M 50 x 1.5	60	8	25/25
4850N	Black RAL 9005		60	8	25/25
4863	Grey RAL 7035	M 63 x 1.5	75	8	10/10
4863N	Black RAL 9005		75	8	10/10

HALOGEN FREE

ACCESSORIES FOR NYLON CABLE GLANDS: METRIC THREAD · IP56 · STOP-ENDS

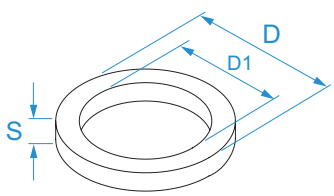


MATERIAL: polyamide reinforced with fiberglass
OPERATING TEMPERATURE: from -40 °C to +100 °C
ASSEMBLY: tighten on a flat and smooth surface

Code	Color	Metric thread size (EN60423)	D (mm)	L (mm)	L1 (mm)	
4612	Grey RAL 7035	M 12 x 1.5	15	8	6	100/100
4612N	Black RAL 9005		15	8	6	100/100
4616	Grey RAL 7035	M 16 x 1.5	20	9	6	100/100
4616N	Black RAL 9005		20	9	6	100/100
4620	Grey RAL 7035	M 20 x 1.5	24	9,5	6	100/100
4620N	Black RAL 9005		24	9,5	6	100/100
4625	Grey RAL 7035	M 25 x 1.5	30	10	8	100/100
4625N	Black RAL 9005		30	10	8	100/100
4632	Grey RAL 7035	M 32 x 1.5	37	13,5	8	100/100
4632N	Black RAL 9005		37	13,5	8	100/100
4640	Grey RAL 7035	M 40 x 1.5	46	15	8	50/50
4640N	Black RAL 9005		46	15	8	50/50
4650	Grey RAL 7035	M 50 x 1.5	56	16	10	50/50
4650N	Black RAL 9005		56	16	10	50/50
4663	Grey RAL 7035	M 63 x 1.5	70	16	12	25/50
4663N	Black RAL 9005		70	16	12	25/25

HALOGEN FREE IP56

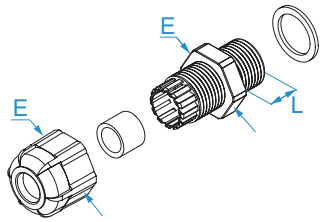
ACCESSORIES FOR NYLON CABLE GLANDS: METRIC THREAD · FLAT GASKETS



MATERIAL: EPDM, 60 Shore A
OPERATING TEMPERATURE: from -40 °C to +140 °C

Code	For thread	D (mm)	D1 (mm)	S (mm)	
4912G	M 12	16	11,8	2	100/500
4917G	M 16	20	15,8	2	100/500
4920G	M 20	24	19,8	2	100/500
4925G	M 25	29	24,8	2	100/500
4932G	M 32	36	31,8	2	100/500
4940G	M 40	46	39,8	2	100/500
4950G	M 50	56	49,8	2	100/100
4963G	M 63	69	62,8	2	100/100

NYLON CABLE GLANDS · PG THREAD · IP68 · STANDARD



MATERIAL: polyamide (PA 6.6), self-extinguishing according to UL 94 V2 and IEC 695-2-1 (850 °C)

OPERATING TEMPERATURE: from -20 °C to +90 °C

INNER GASKET AND WASHER: NBR (nitrile rubber), 70 Shore A

ACCORDING TO STD.: EN 62444:2013

ASSEMBLY: do not remove or move the gasket; tighten on a flat and smooth surface.

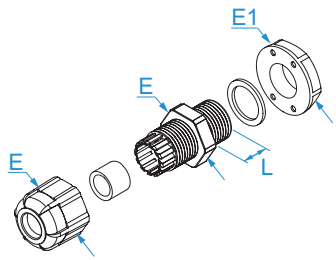
Code	Color	PG thread size (DIN40430)	Ø cable (mm)	L (mm)	E wrench (nut)	
4007	Grey RAL 7035	PG 7	3 - 6,5	9	16	50/500
4307	Grey RAL 7001		3 - 6,5	9	16	50/500
4007N	Black RAL 9005		3 - 6,5	9	16	50/50
4009	Grey RAL 7035	PG 9	4 - 8	9	19	50/500
4309	Grey RAL 7001		4 - 8	9	19	50/500
4009N	Black RAL 9005		4 - 8	9	19	50/50
4011	Grey RAL 7035	PG 11	5 - 10	9	22	25/250
4311	Grey RAL 7001		5 - 10	9	22	25/250
4011N	Black RAL 9005		5 - 10	9	22	25/25
4013	Grey RAL 7035	PG 13.5	6 - 11	10	24	25/250
4313	Grey RAL 7001		6 - 11	10	24	25/250
4013N	Black RAL 9005		6 - 11	10	24	25/250
4016	Grey RAL 7035	PG 16	10 - 13	10	27	25/250
4316	Grey RAL 7001		10 - 13	10	27	25/250
4016N	Black RAL 9005		10 - 13	10	27	25/250
4021	Grey RAL 7035	PG 21	13 - 18	12	33	20/20
4321	Grey RAL 7001		13 - 18	12	33	20/200
4021N	Black RAL 9005		13 - 18	12	33	20/20
4029	Grey RAL 7035	PG 29	18 - 25	12	42	10/100
4329	Grey RAL 7001		18 - 25	12	42	10/100
4029N	Black RAL 9005		18 - 25	12	42	10/10
4036	Grey RAL 7035	PG 36	25 - 32	15	52	5/50
4336	Grey RAL 7001		25 - 32	15	52	5/50
4036N	Black RAL 9005		25 - 32	15	52	5/5
4042	Grey RAL 7035	PG 42	32 - 38	18	60	5/10
4342	Grey RAL 7001		32 - 38	18	60	5/50
4042N	Black RAL 9005		32 - 38	18	60	10/10
4048	Grey RAL 7035	PG 48	37 - 44	18	68	5/25
4348	Grey RAL 7001		37 - 44	18	68	5/50
4048N	Black RAL 9005		37 - 44	18	68	5/5

CE UKCA

HALOGEN FREE

IP68

NYLON CABLE GLANDS · PG THREAD · IP68 · WITH LOCKNUT



MATERIAL: polyamide (PA 6.6), self-extinguishing according to UL 94 V2 and IEC 695-2-1 (850 °C)

LOCKNUT: with flange

OPERATING TEMPERATURE: from -20 °C to +90 °C

INNER GASKET AND WASHER: NBR (nitrile rubber), 70 Shore A

ACCORDING TO STD.: EN 62444:2013

ASSEMBLY: do not remove or move the gasket; tighten on a flat and smooth surface.

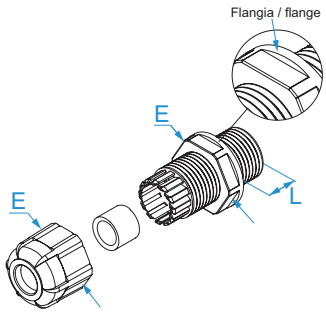
Code	Color	PG thread size (DIN40430)	Ø cable (mm)	L (mm)	E wrench (nut)	E1 wrench (locknut)	
4707	Grey RAL 7035	PG 7	3 - 6,5	9	16	19	10/100
4707N	Black RAL 9005		3 - 6,5	9	16	19	10/100
4709	Grey RAL 7035	PG 9	4 - 8	9	19	22	10/100
4709N	Black RAL 9005		4 - 8	9	19	22	10/100
4711	Grey RAL 7035	PG 11	5 - 10	9	22	24	10/100
4711N	Black RAL 9005		5 - 10	9	22	24	10/100
4713	Grey RAL 7035	PG 13.5	6 - 11	10	24	27	10/100
4713N	Black RAL 9005		6 - 11	10	24	27	10/100
4716	Grey RAL 7035	PG 16	10 - 13	10	27	30	10/100
4716N	Black RAL 9005		10 - 13	10	27	30	10/100
4721	Grey RAL 7035	PG 21	13 - 18	12	33	36	10/100
4721N	Black RAL 9005		13 - 18	12	33	36	10/10
4729	Grey RAL 7035	PG 29	18 - 25	12	42	46	10/50
4729N	Black RAL 9005		18 - 25	12	42	46	10/10
4736	Grey RAL 7035	PG 36	25 - 32	15	52	56	5/5
4736N	Black RAL 9005		25 - 32	15	52	56	5/5
4742	Grey RAL 7035	PG 42	32 - 38	18	60	65	5/5
4742N	Black RAL 9005		32 - 38	18	60	65	5/5
4748	Grey RAL 7035	PG 48	37 - 44	18	68	69	5/5
4748N	Black RAL 9005		37 - 44	18	68	69	5/5

CE UKCA

HALOGEN FREE

IP68

NYLON CABLE GLANDS · PG THREAD · IP68 · WITH FLANGE



MATERIAL: polyamide (PA 6.6), self-extinguishing according to UL 94 V2 and IEC 695-2-1 (850 °C)

OPERATING TEMPERATURE: from -20 °C to +90 °C

INNER GASKET: NBR (nitrile rubber), 60 Shore A

ACCORDING TO STD.: EN 62444:2013

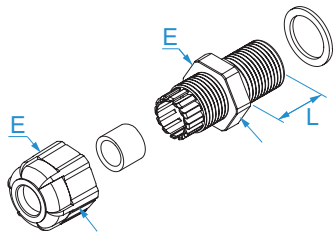
ASSEMBLY: no gasket needed; tighten on a flat and smooth surface.

Code	Color	PG thread size (DIN40430)	Ø cable (mm)	L (mm)	E wrench (nut)	
4907*	Grey RAL 7035	PG 7	3 - 6,5	8	15	50/50
49071*	Black RAL 9005		3 - 6,5	8	15	50/50
4909*	Grey RAL 7035	PG 9	4 - 8	8	19	50/50
49091*	Black RAL 9005		4 - 8	8	19	50/50
4911*	Grey RAL 7035	PG 11	5 - 10	8	22	50/50
49111*	Black RAL 9005		5 - 10	8	22	50/50
4913	Grey RAL 7035	PG 13.5	6 - 12	10	24	50/50
49131	Black RAL 9005		6 - 12	10	24	50/50
4916	Grey RAL 7035	PG 16	10 - 14	10	27	50/50
49161	Black RAL 9005		10 - 14	10	27	50/50
4921	Grey RAL 7035	PG 21	13 - 18	11	33	25/25
49211	Black RAL 9005		13 - 18	11	33	25/25
4929•	Grey RAL 7035	PG 29	18 - 25	11	42	20/20
49291•	Black RAL 9005		18 - 25	11	42	20/20
4936	Grey RAL 7035	PG 36	22 - 32	13	53	10/10
49361	Black RAL 9005		22 - 32	13	53	10/10

file n° E171361 * file n° E171361 • No UL

HALOGEN FREE IP68

NYLON CABLE GLANDS · PG THREAD · IP68 · WITH LONG THREAD



MATERIAL: polyamide (PA 6.6), self-extinguishing according to UL 94 V2 and IEC 695-2-1 (850 °C)

OPERATING TEMPERATURE: from -20 °C to +90 °C

INNER GASKET AND WASHER: NBR (nitrile rubber), 70 Shore A

ACCORDING TO STD.: EN 62444:2013

ASSEMBLY: do not remove or move the gasket; tighten on a flat and smooth surface.

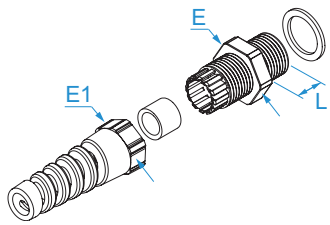
Code	Color	PG thread size (DIN40430)	Ø cable (mm)	L (mm)	E wrench (nut)	
4007L	Grey RAL 7035	PG 7	3 - 6,5	15	16	25/250
4007LN	Black RAL 9005		3 - 6,5	15	16	25/25
4009L	Grey RAL 7035	PG 9	4 - 8	15	19	25/250
4009LN	Black RAL 9005		4 - 8	15	19	25/250
4011L	Grey RAL 7035	PG 11	5 - 10	15	22	25/250
4011LN	Black RAL 9005		5 - 10	15	22	25/25
4013L	Grey RAL 7035	PG 13.5	6 - 11	15	24	10/100
4013LN	Black RAL 9005		6 - 11	15	24	10/100
4016L	Grey RAL 7035	PG 16	10 - 13	15	27	10/100
4016LN	Black RAL 9005		10 - 13	15	27	10/10
4021L	Grey RAL 7035	PG 21	13 - 18	15	33	10/100
4021LN	Black RAL 9005		13 - 18	15	33	10/100
4029L	Grey RAL 7035	PG 29	18 - 25	15	42	10/100
4029LN	Black RAL 9005		18 - 25	15	42	10/10
4036L	Grey RAL 7035	PG 36	25 - 32	18	52	5/25
4036LN	Black RAL 9005		25 - 32	18	52	5/25
4042L	Grey RAL 7035	PG 42	32 - 38	20	60	3/3
4042LN	Black RAL 9005		32 - 38	20	60	3/30
4048L	Grey RAL 7035	PG 48	37 - 44	20	68	3/3
4048LN	Black RAL 9005		37 - 44	20	68	3/3

CE UKCA

HALOGEN FREE

IP68

NYLON CABLE GLANDS · PG THREAD · IP68 · WITH SPIRAL CABLE PROTECTION

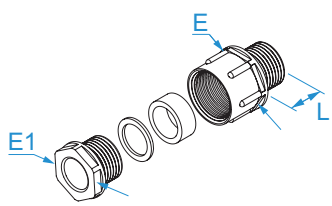


MATERIAL: polyamide (PA 6.6), self-extinguishing according to UL 94 V2 and IEC 695-2-1 (850 °C)
OPERATING TEMPERATURE: from -20 °C to +90 °C
INNER GASKET AND WASHER: NBR (nitrile rubber), 70 Shore A
ACCORDING TO STD.: EN 62444:2013
ASSEMBLY: do not remove or move the gasket; tighten on a flat and smooth surface.

Code	Color	PG thread size (DIN40430)	Ø cable (mm)	L (mm)	E wrench (nut)	
4007S	Grey RAL 7035	PG 7	3 - 6,5	15	16	25/25
4007SN	Black RAL 9005		3 - 6,5	15	16	25/25
4009S	Grey RAL 7035	PG 9	4 - 8	15	19	25/25
4009SN	Black RAL 9005		4 - 8	15	19	25/25
4011S	Grey RAL 7035	PG 11	5 - 10	15	22	10/10
4011SN	Black RAL 9005		5 - 10	15	22	10/10
4013S	Grey RAL 7035	PG 13.5	6 - 11	15	24	10/10
4013SN	Black RAL 9005		6 - 11	15	24	10/10
4016S	Grey RAL 7035	PG 16	10 - 13	15	27	10/100
4016SN	Black RAL 9005		10 - 13	15	27	10/100
4021S	Grey RAL 7035	PG 21	13 - 16	15	33	10/10
4021SN	Black RAL 9005		13 - 16	15	33	10/10

HALOGEN FREE IP68

NYLON CABLE GLANDS · PG THREAD · IP54 · REINFORCED WITH FIBERGLASS



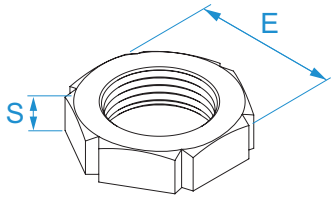
MATERIAL: polyamide reinforced with fiberglass
SELF-EXTINGUISHING: UL 94 HB
OPERATING TEMPERATURE: from -20 °C to +80 °C
ACCORDING TO STD.: EN 62444:2013
ASSEMBLY: tighten on a flat and smooth surface

Code	Color	PG thread size (DIN40430)	Ø cable (mm)	L (mm)	E wrench (nut)	E1 wrench (locknut)	
3596	Grey RAL 7035	PG 7	3,5 - 6	8	15	13	50/50
3597	Grey RAL 7035	PG 9	4,5 - 7	8	19	16	50/50
3598	Grey RAL 7035	PG 11	6 - 9	8	22	19	50/50
3599	Grey RAL 7035	PG 13.5	9 - 12	9	24	21	50/50
3600	Grey RAL 7035	PG 16	11 - 14	10	27	23	50/50
3601	Grey RAL 7035	PG 21	14 - 18	11	33	30	25/25
3602	Grey RAL 7035	PG 29	18 - 25	11	42	40	20/20
3603	Grey RAL 7035	PG 36	25 - 32	13	53	50	10/10
3604	Grey RAL 7035	PG 42	30 - 38	13	60	55	10/10
3605	Grey RAL 7035	PG 48	38 - 44	15	65	60	5/5

HALOGEN FREE IP54

ACCESSORIES FOR NYLON CABLE GLANDS: PG THREAD · HEXAGONAL LOCKNUTS

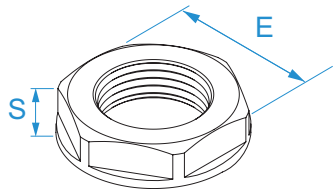
MATERIAL: polyamide reinforced with fiberglass
OPERATING TEMPERATURE: from -20 °C to +90 °C



Code	Color	PG thread size (DIN40430)	E wrench (nut)	S (mm)	
3696	Grey RAL 7035	PG 7	19	5	100/100
3697	Grey RAL 7035	PG 9	22	5	100/100
3698	Grey RAL 7035	PG 11	24	4	100/100
3699	Grey RAL 7035	PG 13.5	27	6	100/100
3700	Grey RAL 7035	PG 16	30	6	100/100
3701	Grey RAL 7035	PG 21	36	7	100/100
3702	Grey RAL 7035	PG 29	46	7	50/50
3703	Grey RAL 7035	PG 36	60	8	25/25
3704	Grey RAL 7035	PG 42	65	8	25/25
3705	Grey RAL 7035	PG 48	70	8	10/10

HALOGEN FREE

ACCESSORIES FOR NYLON CABLE GLANDS: PG THREAD · HEXAGONAL LOCKNUTS WITH FLANGE



MATERIAL: polyamide (PA 6.6)
SELF-EXTINGUISHING: UL 94 V2
OPERATING TEMPERATURE: from -20 °C to +90 °C

Code	Color	PG thread size (DIN40430)	E wrench (nut)	S (mm)	
4807*	Grey RAL 7035	PG 7	19	5	100/100
4807N*	Black RAL 9005		19	5	100/100
4809*	Grey RAL 7035	PG 9	22	5	100/100
4809N*	Black RAL 9005		22	5	100/100
4811*	Grey RAL 7035	PG 11	24	5	100/100
4811N*	Black RAL 9005		24	5	100/100
4813	Grey RAL 7035	PG 13.5	27	6	100/100
4813N	Black RAL 9005		27	6	100/100
4816	Grey RAL 7035	PG 16	30	6	100/100
4816N	Black RAL 9005		30	6	100/100
4821	Grey RAL 7035	PG 21	36	7	100/100
4821N	Black RAL 9005		36	7	100/100
4829•	Grey RAL 7035	PG 29	46	7	50/50
4829N•	Black RAL 9005		46	7	50/50
4836	Grey RAL 7035	PG 36	60	8	25/25
4836N	Black RAL 9005		60	8	25/25
4842•	Grey RAL 7035	PG 42	65	8	25/25
4842N•	Black RAL 9005		65	8	25/25
4848•	Grey RAL 7035	PG 48	70	8	10/10
4848N•	Black RAL 9005		70	8	10/10

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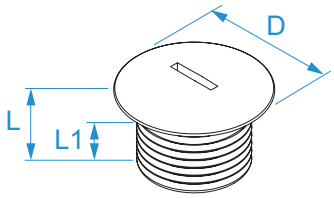
HALOGEN FREE

ACCESSORIES FOR NYLON CABLE GLANDS: PG THREAD · IP56 · STOP-ENDS



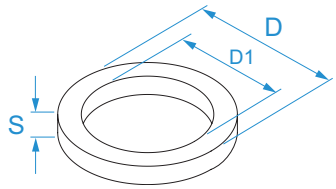
MATERIAL: polystirene
OPERATING TEMPERATURE: from -25 °C to +60 °C
OPERATING TEMPERATURE FOR SHORT PERIODS: 80
ASSEMBLY: tighten on a flat and smooth surface

Code	Color	PG thread size (DIN40430)	D (mm)	L (mm)	L1 (mm)	
4596	Grey RAL 7035	PG 7	15	8	6	100/100
4596N	Black RAL 9005		15	8	6	100/100
4597	Grey RAL 7035	PG 9	19	9	6	100/100
4597N	Black RAL 9005		19	9	6	100/100
4598	Grey RAL 7035	PG 11	22	9	6	100/100
4598N	Black RAL 9005		22	9	6	100/100
4599	Grey RAL 7035	PG 13.5	25	9,5	6	100/100
4599N	Black RAL 9005		25	9,5	6	100/100
4600	Grey RAL 7035	PG 16	27	9,5	6	100/100
4600N	Black RAL 9005		27	9,5	6	100/100
4601	Grey RAL 7035	PG 21	33	11	8	100/100
4601N	Black RAL 9005		33	11	8	100/100
4602	Grey RAL 7035	PG 29	44	12	8	50/50
4602N	Black RAL 9005		44	12	8	50/50
4603	Grey RAL 7035	PG 36	55	15	10	25/25
4603N	Black RAL 9005		55	15	10	25/25
4604	Grey RAL 7035	PG 42	62	16	10	25/25
4604N	Black RAL 9005		62	16	10	25/25
4605	Grey RAL 7035	PG 48	69	16	12	25/25
4605N	Black RAL 9005		69	16	12	25/25

IP56

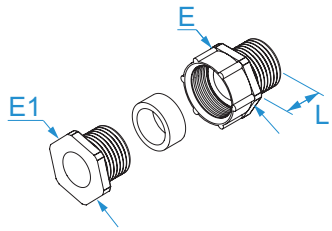
ACCESSORIES FOR NYLON CABLE GLANDS: PG THREAD · FLAT GASKETS

MATERIAL: EPDM, 60 Shore A
OPERATING TEMPERATURE: from -40 °C to +140 °C



Code	For thread	D (mm)	D1 (mm)	S (mm)	
4907G	PG 7	16,5	12,5	2	100/500
4909G	PG 9	19	15,2	2	100/500
4911G	PG 11	22,5	18,6	2	100/500
4913G	PG 13.5	25	20,4	2	100/500
4916G	PG 16	27	22,5	2	100/500
4921G	PG 21	33,5	28,3	3	100/500
4929G	PG 29	43,5	37	3	100/500
4936G	PG 36	55	47	3	100/500
4942G	PG 42	63	54	3	100/100
4948G	PG 48	69	59,3	3	100/100

NYLON CABLE GLANDS · GAS THREAD · IP54 · STANDARD

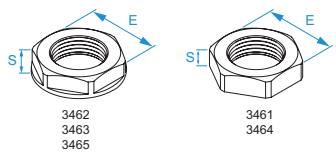


MATERIAL: polyamide (PA 6)
SELF-EXTINGUISHING: UL 94 V2
OPERATING TEMPERATURE: from -20 °C to +90 °C
ASSEMBLY: tighten on a flat and smooth surface

Code	Color	Gas thread (ISO228/1) (")	Ø cable (mm)	L (mm)	E wrench (nut)	E1 wrench (locknut)	
3451	Grey RAL 7035	G 3/8"	7 - 10	7,5	21	19	100/100
3452	Grey RAL 7035	G 1/2"	11 - 13	9	25	23	100/100
3453	Grey RAL 7035	G 5/8	13,5 - 15	10	27	25	100/100
3454	Grey RAL 7035	G 3/4"	16 - 18	10,5	30	29	100/100
3455	Grey RAL 7035	G 1"	19 - 22	12	38	36	50/50

IP54

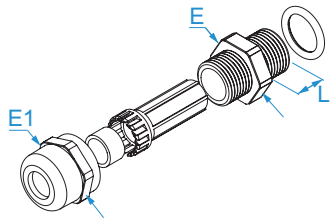
ACCESSORIES FOR NYLON CABLE GLANDS: GAS THREAD · HEXAGONAL LOCKNUTS WITH FLANGE



MATERIAL: polyamide (PA 6)
SELF-EXTINGUISHING: UL 94 V2
OPERATING TEMPERATURE: from -20 °C to +90 °C

Code	Color	Gas thread (ISO228/1) (")	E wrench (nut)	S (mm)	
3461	Grey RAL 7035	G 3/8"	22	5	100/100
3462	Grey RAL 7035	G 1/2"	27	5,7	100/100
3463	Grey RAL 7035	G 5/8	30	6,4	100/100
3464	Grey RAL 7035	G 3/4"	32	6,6	100/100
3465	Grey RAL 7035	G 1"	39	7,8	50/50

BRASS CABLE GLANDS · METRIC THREAD · IP68 · STANDARD

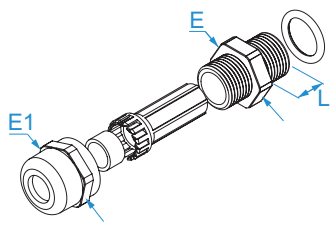


MATERIAL: nickel-plated brass
OPERATING TEMPERATURE: from -40 °C to +100 °C
INNER GASKET AND O-RING: NBR (nitrile rubber), 70 Shore A
ACCORDING TO STD.: EN 62444:2013
ASSEMBLY: do not remove or move the gasket; tighten on a flat and smooth surface.
CAGE IN: polyamide (PA 6.6)

Code	Metric thread size (EN60423)	Ø cable (mm)	L (mm)	E wrench (nut)	E1 wrench (locknut)	
2512	M 12 x 1.5	3 - 6,5	6	14	14	100/100
2517	M 16 x 1.5	4 - 8	7	18	18	100/100
2520	M 20 x 1.5	6 - 12	9	22	22	100/100
2525	M 25 x 1.5	10 - 14	9	27	24	100/100
2532	M 32 x 1.5	15 - 22	10	34	34	40/40
2540	M 40 x 1.5	18 - 25	10	45	45	20/20
2550	M 50 x 1.5	32 - 38	10	58	58	12/12
2563	M 63 x 1.5	37 - 44	12	68	64	7/7

IP68

BRASS CABLE GLANDS · METRIC THREAD · IP68 · WITH LONG THREAD

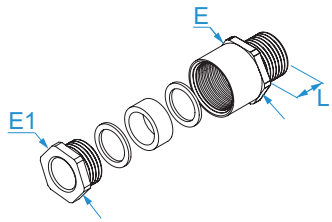


MATERIAL: nickel-plated brass
OPERATING TEMPERATURE: from -40 °C to +100 °C
INNER GASKET AND O-RING: NBR (nitrile rubber), 70 Shore A
ACCORDING TO STD.: EN 62444:2013
ASSEMBLY: do not remove or move the gasket; tighten on a flat and smooth surface.
CAGE IN: polyamide (PA 6.6)

Code	Metric thread size (EN60423)	Ø cable (mm)	L (mm)	E wrench (nut)	E1 wrench (locknut)	
2512L	M 12 x 1.5	3 - 6,5	10	14	14	25/25
2517L	M 16 x 1.5	4 - 8	10	18	18	25/25
2520L	M 20 x 1.5	6 - 12	10	22	22	25/25
2525L	M 25 x 1.5	10 - 14	12	27	24	25/25
2532L	M 32 x 1.5	15 - 22	14	34	34	10/10
2540L	M 40 x 1.5	18 - 25	15	45	45	5/5
2550L	M 50 x 1.5	32 - 38	15	58	58	5/5
2563L	M 63 x 1.5	37 - 44	15	68	64	5/5

IP68

BRASS CABLE GLANDS · METRIC THREAD · IP54 · STANDARD

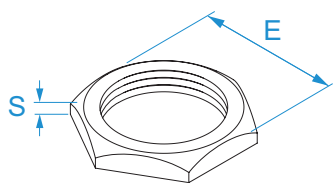


MATERIAL: nickel-plated brass
OPERATING TEMPERATURE: from -20 °C to +70 °C
INNER GASKET: NBR (nitrile rubber), 70 Shore A
ASSEMBLY: tighten on a flat and smooth surface

Code	Metric thread size (EN60423)	Ø cable (mm)	L (mm)	E wrench (nut)	E1 wrench (locknut)	
2812	M 12 x 1.5	4 - 6	5	14	13	100/100
2816	M 16 x 1.5	8 - 10	6	17	15	100/100
2820	M 20 x 1.5	10 - 12	7	22	20	50/50
2825	M 25 x 1.5	17 - 19	8,5	30	28	50/50
2832	M 32 x 1.5	19 - 22	9	35	33	50/50
2840	M 40 x 1.5	26 - 30	10,2	45	42	25/25
2850	M 50 x 1.5	39 - 41	10	57	54	10/10
2863	M 63 x 1.5	43 - 45	12	64	60	10/10

IP54

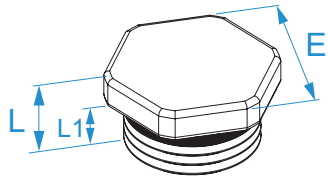
ACCESSORIES FOR BRASS CABLE GLANDS: METRIC THREAD · HEXAGONAL LOCKNUTS



MATERIAL: nickel-plated brass
OPERATING TEMPERATURE: from -40 °C to +100 °C

Code	Metric thread size (EN60423)	E wrench (nut)	S (mm)	
2712	M 12 x 1.5	15	2,8	100/100
2716	M 16 x 1.5	19	3	100/100
2720	M 20 x 1.5	24	3,2	100/100
2725	M 25 x 1.5	30	3,5	100/100
2732	M 32 x 1.5	37	4	50/50
2740	M 40 x 1.5	46	5	25/25
2750	M 50 x 1.5	55	5	25/25
2763	M 63 x 1.5	70	5,5	10/10

ACCESSORIES FOR BRASS CABLE GLANDS: METRIC THREAD · IP68 · STOP-ENDS

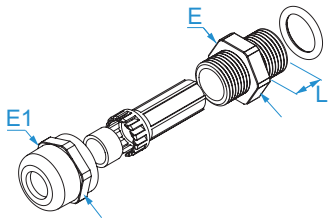


MATERIAL: nickel-plated brass
OPERATING TEMPERATURE: from -40 °C to +100 °C
O-RING: NBR (nitrile rubber), 70 Shore A
ASSEMBLY: do not remove or move the gasket; tighten on a flat and smooth surface.

Code	Metric thread size (EN60423)	L (mm)	L1 (mm)	E wrench (nut)	
2612	M 12 x 1.5	8	5	14	100/3500
2616	M 16 x 1.5	9	6	18	100/2500
2620	M 20 x 1.5	10	7	22	100/1200
2625	M 25 x 1.5	10	7	28	100/800
2632	M 32 x 1.5	12	8	36	100/400
2640	M 40 x 1.5	14	9	45	100/300
2650	M 50 x 1.5	15	9	55	50/150
2663	M 63 x 1.5	16	10	70	50/100

IP68

BRASS CABLE GLANDS · PG THREAD · IP68 · STANDARD



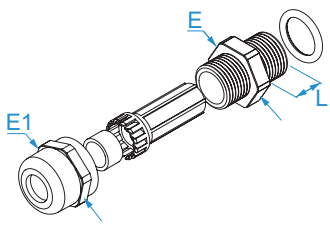
MATERIAL: nickel-plated brass
OPERATING TEMPERATURE: from -40 °C to +100 °C
INNER GASKET AND O-RING: NBR (nitrile rubber), 70 Shore A
ACCORDING TO STD.: EN 62444:2013
ASSEMBLY: do not remove or move the gasket; tighten on a flat and smooth surface.
CAGE IN: polyamide (PA 6.6)

Code	PG thread size (DIN40430)	Ø cable (mm)	L (mm)	E wrench (nut)	E1 wrench (locknut)	
2507	PG 7	3 - 6,5	6	14	14	100/100
2509	PG 9	4 - 8	7	18	18	100/100
2511	PG 11	5 - 10	7	20	20	100/100
2513	PG 13.5	6 - 12	8	22	22	100/100
2516	PG 16	10 - 14	8	24	24	100/100
2521	PG 21	13 - 18	9	30	30	50/50
2529	PG 29	18 - 25	10	40	40	25/25
2536	PG 36	25 - 32	10	50	50	12/12
2542	PG 42	32 - 38	12	58	58	10/10
2548	PG 48	37 - 44	12	64	64	7/7

CE UKCA

IP68

BRASS CABLE GLANDS · PG THREAD · IP68 · WITH LONG THREAD



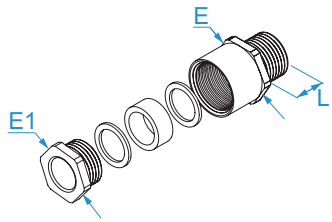
MATERIAL: nickel-plated brass
OPERATING TEMPERATURE: from -40 °C to +100 °C
INNER GASKET AND O-RING: NBR (nitrile rubber), 70 Shore A
ACCORDING TO STD.: EN 62444:2013
ASSEMBLY: do not remove or move the gasket; tighten on a flat and smooth surface.
CAGE IN: polyamide (PA 6.6)

Code	PG thread size (DIN40430)	Ø cable (mm)	L (mm)	E wrench (nut)	E1 wrench (locknut)	
2507L	PG 7	3 - 6,5	10	14	14	25/25
2509L	PG 9	4 - 8	10	18	18	25/25
2511L	PG 11	5 - 10	10	20	20	25/25
2513L	PG 13.5	6 - 12	10	22	22	25/25
2516L	PG 16	10 - 14	10	24	24	25/25
2521L	PG 21	13 - 18	12	30	30	25/25
2529L	PG 29	18 - 25	12	40	40	10/10
2536L	PG 36	25 - 32	15	50	50	5/5
2542L	PG 42	32 - 38	15	58	58	5/5
2548L	PG 48	37 - 44	15	64	64	5/5

CE UKCA

IP68

BRASS CABLE GLANDS · PG THREAD · IP54 · STANDARD



MATERIAL: nickel-plated brass
OPERATING TEMPERATURE: from -20 °C to +70 °C
INNER GASKET: NBR (nitrile rubber), 70 Shore A
ASSEMBLY: tighten on a flat and smooth surface

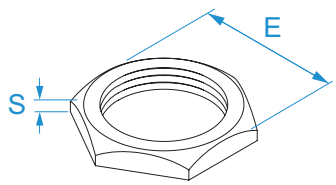
Code	PG thread size (DIN40430)	Ø cable (mm)	L (mm)	E wrench (nut)	E1 wrench (locknut)	
2596	PG 7	4 - 6	5	14	13	100/100
2597	PG 9	8 - 10	6	17	15	100/100
2598	PG 11	8 - 10	6	20	18	100/100
2599	PG 13.5	10 - 12	6,5	22	20	50/50
2600	PG 16	12 - 14	6,5	24	22	50/50
2601	PG 21	17 - 19	7	30	28	50/50
2602	PG 29	26 - 28	8	40	37	50/50
2603	PG 36	33 - 35	9	50	47	20/20
2604	PG 42	39 - 41	10	57	54	5/5
2605	PG 48	43 - 45	10	64	60	5/5

CE UKCA

IP54

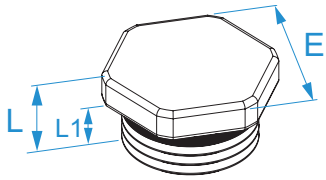
ACCESSORIES FOR BRASS CABLE GLANDS: PG THREAD · HEXAGONAL LOCKNNUTS

MATERIAL: nickel-plated brass
OPERATING TEMPERATURE: from -40 °C to +100 °C



Code	PG thread size (DIN40430)	E wrench (nut)	S (mm)	
2696	PG 7	15	2,8	100/100
2697	PG 9	18	3	100/100
2698	PG 11	21	3	100/100
2699	PG 13.5	23	3	100/100
2700	PG 16	26	3,25	100/100
2701	PG 21	32	3,5	100/100
2702	PG 29	42	4	100/100
2703	PG 36	51	5	50/50
2704	PG 42	60	5	10/10
2705	PG 48	65	5,5	10/10

ACCESSORIES FOR BRASS CABLE GLANDS: PG THREAD · IP68 · STOP-ENDS

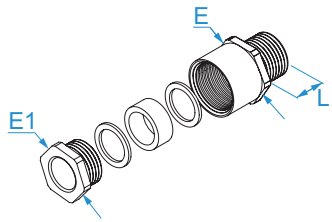


MATERIAL: nickel-plated brass
OPERATING TEMPERATURE: from -40 °C to +100 °C
O-RING: NBR (nitrile rubber), 70 Shore A
ASSEMBLY: do not remove or move the gasket; tighten on a flat and smooth surface.

Code	PG thread size (DIN40430)	L (mm)	L1 (mm)	E wrench (nut)	
2796	PG 7	8	5	14	100/3500
2797	PG 9	9	6	17	100/2500
2798	PG 11	9	6	20	100/2000
2799	PG 13.5	10	7	22	100/1200
2800	PG 16	10	7	24	100/1000
2801	PG 21	11	7	30	100/500
2802	PG 29	12	8	40	100/300
2803	PG 36	15	9	50	50/150
2804	PG 42	16	10	60	50/100
2805	PG 48	16	10	65	25/100

IP68

BRASS CABLE GLANDS · GAS THREAD · IP54 · STANDARD



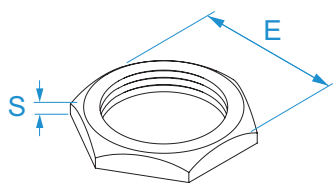
MATERIAL: nickel-plated brass
OPERATING TEMPERATURE: from -20 °C to +70 °C
INNER GASKET: NBR (nitrile rubber), 70 Shore A
ASSEMBLY: tighten on a flat and smooth surface

Code	Gas thread (ISO228/1) (")	Ø cable (mm)	L (mm)	E wrench (nut)	E1 wrench (locknut)	
2450	G 1/4"	4 - 6	5	14	13	100/100
2451	G 3/8"	8 - 10	6	17	15	100/100
2452	G 1/2"	10 - 12	7	22	20	100/100
2453	G 5/8	12 - 14	7,5	24	22	100/100
2454	G 3/4"	17 - 19	8,5	30	28	100/100
2455	G 1"	19 - 22	9	35	33	50/50
2456	G 1 1/8	26 - 28	10,5	40	37	50/50
2457	G 1" 1/4	26 - 30	10,2	45	42	25/25
2458	G 1" 1/2	33 - 35	12	50	47	20/20
2459	G 2"	43 - 45	12	64	60	20/20
24592	G 2 1/2	55 - 57	12	80	80	3/3
24593	G 3	67 - 69	20	95	95	3/3

IP54

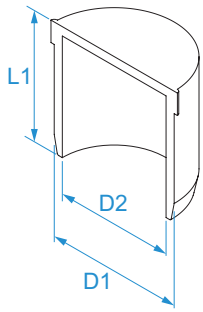
ACCESSORIES FOR BRASS CABLE GLANDS: GAS THREAD · HEXAGONAL LOCKNUTS

MATERIAL: nickel-plated brass
OPERATING TEMPERATURE: from -20 °C to +70 °C



Code	Gas thread (ISO228/1) (")	E wrench (nut)	S (mm)	
2460	G 1/4"	15	2,8	100/100
2461	G 3/8"	19	3,2	100/100
2462	G 1/2"	24	3,75	100/100
2463	G 5/8	26	3,75	100/100
2464	G 3/4"	30	4	100/100
2465	G 1"	37	4,5	50/50
2466	G 1 1/8	42	5	50/50
2467	G 1" 1/4	46	5	25/25
2468	G 1" 1/2	54	5,5	20/20
2469	G 2"	65	5,7	20/20
24692	G 2 1/2	80	7	5/5
24693	G 3	95	8	10/10

ACCESSORIES FOR NYLON CABLE GLANDS: IP68 STOP-ENDS



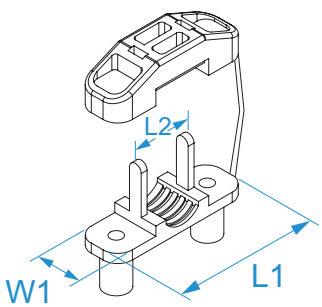
MATERIAL: red polyamide
OPERATING TEMPERATURE: from -40 °C to +100 °C
APPLICATIONS: suitable to close IP68 nylon and brass cable gland holes

ASSEMBLY: insert the plug with the end-stop wings on the cable gland gasket and tighten
TIGHTENING TORQUE:1N/m

Code	D1 (mm)	D2 (mm)	L1 (mm)	Suitable for cable glands with thread Metric	Suitable for cable glands with thread PG	
4206	6	2,8	16	M12 M16 M20	PG7 PG9 PG11 PG13.5	50/1750
4213	13	8,5	22	M25	PG16 PG21	50/1750
4220	20	14,5	22	M32 M40	PG29	25/875
4228	28	22	30		PG36	25/875
4238	38	32	35	M50 M63	PG42 PG48	10/350

IP68

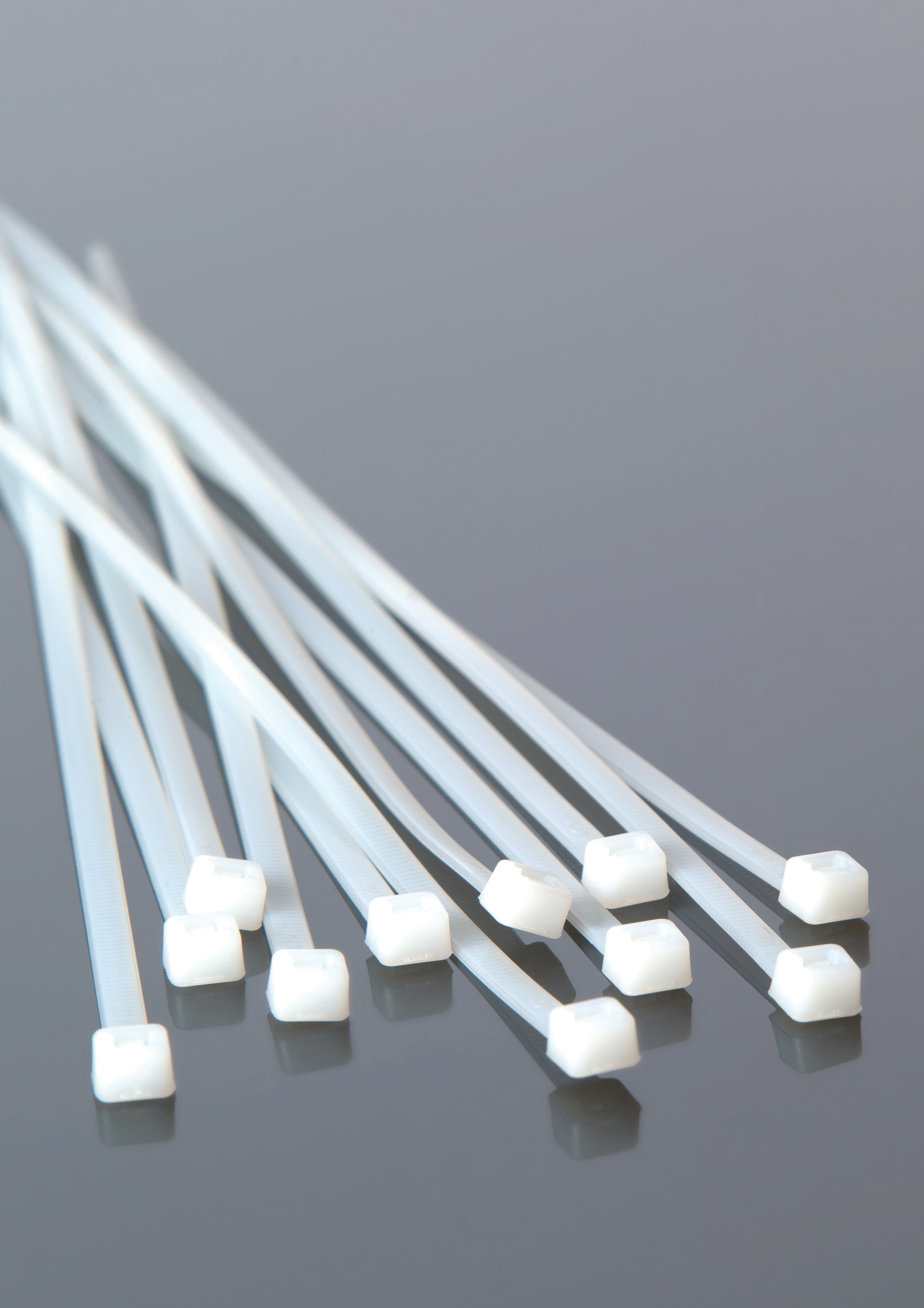
CABLE CLAMPS



MATERIAL: black UL 94 V2 polyamide (PA 6.6)
OPERATING TEMPERATURE: 125 °C

Code	L1 (mm)	L2 (mm)	W1 (mm)	
M932	44,3	14,6	14,5	100/100

HALOGEN FREE



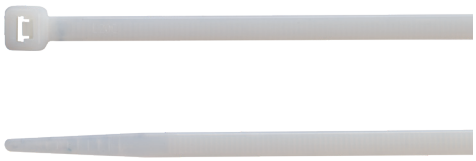
CABLE TIES

NYLON CABLE TIES pag. 186

VELCRO CABLE TIES pag. 197

STAINLESS STEEL CABLE TIES pag. 198

NYLON CABLE-TIES · STANDARD



MATERIAL: polyamide (PA 6.6)
COLOR: natural
INSULATION SELF-EXTINGUISHING: UL 94 V2
OPERATING TEMPERATURE: from -40 °C to +85 °C
MINIMUM INSTALLATION TEMPERATURE: -10 °C
CHEMICAL RESISTANCE: good resistance to bases, oils, grease, chloride solvents. Limited resistance to acids. Not resistant to phenols.
ASSEMBLY: open the package just before use
ACCORDING TO STD.: EN 62275:2015-02
CLASSIFICATION: type 1 (EN), type 21 (UL)

Code	Width (mm)	Length (mm)	Max bundle Ø (mm)	Min bundle Ø (mm)	Tensile minimum resistance (N)	
B0824	2,5	80	14	3	80	100/5000
B1025		102	20,5	3		100/5000
B1025M		102	20,5	3		1000/1000
B1225		120	27	3		100/4000
B1225M		120	27	3		1000/1000
B1625		160	40	3		100/4000
B1625M		160	40	3		1000/1000
B2025		200	52,5	3		100/3000
B2025M		200	52,5	3		1000/1000
B1436	3,5	140	33	3	180	100/2500
B1436M		140	33	3		1000/1000
B2036		200	52,5	3		100/2000
B2036M		200	52,5	3		1000/1000
B2936		300	106	3		100/1500
B2936M		300	106	3		1000/1000
B3736		370	105	3		100/4000
B1248	4,6	120	24	3	220	100/2000
B1648		160	36	3		100/1500
B1648M		160	36	3		1000/1000
B1948		190	46	3		100/1500
B1948M		190	46	3		1000/1000
B2048		200	50	3		100/1500
B2048M		200	50	3		1000/1000
B2548	4,7	250	65	3		100/1500
B2548M		250	65	3		1000/1000
B3048		300	81	3		100/1000
B3048M		300	81	3		1000/1000
B3748		370	103,5	3		100/3000
B3948		390	110	3		100/2500
B4348		430	122,5	3		100/1500
B5348		550	160	3		100/100
B1576	7,5	150	24	6	550	100/1000
B2076		200	51	6		100/1000
B2976		300	83	6		100/600
B3776		370	103,5	6		100/1000
B4576		450	130,5	6		100/100
B5476		550	159	6		100/100
B7576		750	226	6		100/100
B4390	8,8	450	130,5	9	800	100/100
B5390		550	163,5	9		100/100
B7190	9	710	195	9		100/100
B7890		780	235,5	9		100/100
B8190		810	245	9		100/100
B1090		1020	295	9		100/100
B1290		1220	375,5	9		100/100
B1590		1530	460	9		100/100

CE UL LISTED file n° E 223175

HALOGEN FREE

NYLON CABLE-TIES · UV-RESISTANT STANDARD

MATERIAL: polyamide (PA 6.6) + carbon black
COLOR: black
INSULATION SELF-EXTINGUISHING: UL 94 V2
OPERATING TEMPERATURE: from -40 °C to +85 °C
MINIMUM INSTALLATION TEMPERATURE: -10 °C
CHEMICAL RESISTANCE: good resistance to bases, oils, grease, chloride solvents. Limited resistance to acids. Not resistant to phenols.
ASSEMBLY: open the package just before use
ACCORDING TO STD.: EN 62275:2015-02
CLASSIFICATION: type 1 (EN), type 21 (UL)

Code	Width (mm)	Length (mm)	Max bundle Ø (mm)	Min bundle Ø (mm)	Tensile minimum resistance (N)	
N0824	2,5	80	14	3	80	100/5000
N0824M		80	14	3		1000/1000
N1025		102	20,5	3		100/5000
N1025M		102	20,5	3		1000/1000
N1225		120	27	3		100/4000
N1625		160	40	3		100/4000
N1625M		160	40	3		1000/1000
N2025		200	52,5	3		100/3000
N1436	3,5	140	33	3	180	100/2500
N1436M		140	33	3		1000/1000
N2036		200	52,5	3		100/2000
N2936		300	106	3		100/1500
N2936M		300	106	3		1000/1000
N3736		370	105	3		100/4000
N1248	4,6	120	24	3	220	100/2000
N1648		160	36	3		100/1500
N1948		190	46	3		100/1500
N2048		200	50	3		100/1500
N2048M		200	50	3		1000/1000
N2548	4,7	250	65	3		100/1500
N3048		300	81	3		100/1000
N3048M		300	81	3		1000/1000
N3748		370	103,5	3		100/3000
N3948		390	110	3		100/2500
N4348		430	122,5	3		100/1500
N5348		550	160	3		100/100
N1576	7,5	150	24	6	550	100/1000
N2076		200	51	6		100/1000
N2976		300	83	6		100/600
N3776		370	103,5	6		100/1000
N4576		450	130,5	6		100/100
N5476		550	159	6		100/100
N7576		750	226	6		100/100
N4390	8,8	450	130,5	9	800	100/100
N5390		550	163,5	9		100/100
N7190	9	710	195	9		100/100
N7890		780	235,5	9		100/100
N8190		810	245	9		100/100
N1090		1020	295	9		100/100
N1290		1220	375,5	9		100/100
N1590		1530	460	9		100/100

CE UL LISTED file n° E 223175

HALOGEN FREE

UV RESISTANT

NYLON CABLE-TIES · SELF-EXTINGUISHING UL94-V0

MATERIAL: polyamide (PA 6.6)
COLOR: white
INSULATION SELF-EXTINGUISHING: UL 94 V0
OPERATING TEMPERATURE: from -40 °C to +85 °C
MINIMUM INSTALLATION TEMPERATURE: -10 °C
CHEMICAL RESISTANCE: good resistance to bases, oils, grease, chloride solvents. Limited resistance to acids. Not resistant to phenols.
ASSEMBLY: open the package just before use
ACCORDING TO STD.: EN 62275:2015-02
CLASSIFICATION: type 1 (EN)

Code	Width (mm)	Length (mm)	Max bundle Ø (mm)	Min bundle Ø (mm)	Tensile minimum resistance (N)	
B1025V0	2,5	100	20,5	3	80	100/5000
B1536V0	3,6	150	36	3,5	180	100/2500
B2036V0		200	52,5	3,5		100/2000
B2048V0	4,8	200	49,5	3,5	230	100/1500
B3048V0		300	81	3,5		100/1000
B3848V0		370	106,7	3,5		100/2500
B3876V0	7,6	370	106,7	8,5	540	100/1000

CE HALOGEN FREE V0

NYLON CABLE-TIES · DETECTABLE

MATERIAL: polyamide (PA 6.6) + metal particles
COLOR: blue
INSULATION SELF-EXTINGUISHING: UL 94 V2
OPERATING TEMPERATURE: from -40 °C to +85 °C
MINIMUM INSTALLATION TEMPERATURE: -10 °C
CHEMICAL RESISTANCE: good resistance to bases, oils, grease, chloride solvents. Limited resistance to acids. Not resistant to phenols.
ASSEMBLY: open the package just before use
ACCORDING TO STD.: EN 62275:2015-02
CLASSIFICATION: type 1 (EN)

Code	Width (mm)	Length (mm)	Max bundle Ø (mm)	Min bundle Ø (mm)	Tensile minimum resistance (N)	
BX1025	2,5	100	20,5	3	80	100/5000
BX1536	3,6	150	36	3,5	180	100/2500
BX2036		200	52,5	3,5		100/2000
BX2048	4,8	200	49,5	3,5	230	100/1500
BX3048		300	81	3,5		100/1000
BX3848		370	106,7	3,5		100/2500
BX3876	7,6	370	106,7	8,5	540	100/1000

CE HALOGEN FREE

NYLON CABLE-TIES · WITH STEEL LOCKING PAW

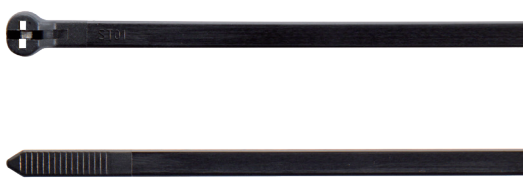
MATERIAL: polyamide (PA 6.6) + steel
COLOR: natural
INSULATION SELF-EXTINGUISHING: UL 94 V2
OPERATING TEMPERATURE: from -40 °C to +85 °C
MINIMUM INSTALLATION TEMPERATURE: -10 °C
CHEMICAL RESISTANCE: good resistance to bases, oils, grease, chloride solvents. Limited resistance to acids. Not resistant to phenols.
ASSEMBLY: open the package just before use
ACCORDING TO STD.: EN 62275:2015-02
CLASSIFICATION: type 1 (EN)

Code	Width (mm)	Length (mm)	Max bundle Ø (mm)	Min bundle Ø (mm)	Tensile minimum resistance (N)	
BL1025	2,5	100	20,5	3	180	100/5000
BL2025		200	52,5	3		100/3000
BL1436	3,6	140	33	3,5	250	100/2500
BL2048	4,8	200	49,5	3,5	360	100/1500
BL3048		300	81	3,5		100/1000
BL3748		370	103,5	3,5		100/3000
BL3776	7,6	370	103,5	8,5	780	100/1000

CE

HALOGEN FREE

UV-RESISTANT NYLON CABLE-TIES · WITH STEEL LOCKING PAW



MATERIAL: polyamide (PA 6.6) + carbon black + steel
COLOR: black
INSULATION SELF-EXTINGUISHING: UL 94 V2
OPERATING TEMPERATURE: from -40 °C to +85 °C
MINIMUM INSTALLATION TEMPERATURE: -10 °C
CHEMICAL RESISTANCE: good resistance to bases, oils, grease, chloride solvents. Limited resistance to acids. Not resistant to phenols.
ASSEMBLY: open the package just before use
ACCORDING TO STD.: EN 62275:2015-02
CLASSIFICATION: type 1 (EN)

Code	Width (mm)	Length (mm)	Max bundle Ø (mm)	Min bundle Ø (mm)	Tensile minimum resistance (N)	
NL1025	2,5	100	20,5	3	180	100/5000
NL2025		200	52,5	3		100/3000
NL1436	3,6	140	33	3,5	250	100/2500
NL2048	4,8	200	49,5	3,5	360	100/1500
NL3048		300	81	3,5		100/1000
NL3748		370	103,5	3,5		100/3000
NL3776	7,6	370	103,5	8,5	780	100/1000

CE

HALOGEN FREE

UV RESISTANT

NYLON CABLE-TIES · REUSABLE

MATERIAL: polyamide (PA 6.6)
COLOR: natural
INSULATION SELF-EXTINGUISHING: UL 94 V2
OPERATING TEMPERATURE: from -40 °C to +85 °C
MINIMUM INSTALLATION TEMPERATURE: -10 °C
CHEMICAL RESISTANCE: good resistance to bases, oils, grease, chloride solvents. Limited resistance to acids. Not resistant to phenols.
ASSEMBLY: open the package just before use
ACCORDING TO STD.: EN 62275:2015-02
CLASSIFICATION: type 1 (EN), type 21 (UL)

Code	Width (mm)	Length (mm)	Max bundle Ø (mm)	Min bundle Ø (mm)	Tensile minimum resistance (N)	
BR1576	7,6	150	40	10	230	100/1000
BR2076		200	55	10		100/500
BR3076		300	82	10		100/500

CE UL LISTED file n° E 223175

HALOGEN FREE

NYLON CABLE-TIES · WITH MOUNTING HOLE

MATERIAL: polyamide (PA 6.6)
COLOR: natural
INSULATION SELF-EXTINGUISHING: UL 94 V2
OPERATING TEMPERATURE: from -40 °C to +85 °C
MINIMUM INSTALLATION TEMPERATURE: -10 °C
CHEMICAL RESISTANCE: good resistance to bases, oils, grease, chloride solvents. Limited resistance to acids. Not resistant to phenols.
ASSEMBLY: open the package just before use
ACCORDING TO STD.: EN 62275:2015-02
CLASSIFICATION: type 1 (EN), type 21 (UL)

Code	Width (mm)	Length (mm)	Fixing hole Ø (mm)	Max bundle Ø (mm)	Min bundle Ø (mm)	Tensile minimum resistance (N)	
BH1125•	2,5	110	3	19	3	80	100/3000
BH2048	4,8	200	4,8	49,8	3	230	100/1000
BH3076	7,6	305	6,1	78,7	8	550	100/1000

CE UL LISTED file n° E 223175 • No UL

HALOGEN FREE

NYLON CABLE-TIES · PUSH MOUNT

MATERIAL: polyamide (PA 6.6)
COLOR: natural
INSULATION SELF-EXTINGUISHING: UL 94 V2
OPERATING TEMPERATURE: from -40 °C to +85 °C
MINIMUM INSTALLATION TEMPERATURE: -10 °C
CHEMICAL RESISTANCE: good resistance to bases, oils, grease, chloride solvents. Limited resistance to acids. Not resistant to phenols.
ASSEMBLY: open the package just before use
ACCORDING TO STD.: EN 62275:2015-02
CLASSIFICATION: type 1 (EN), type 21 (UL)

Code	Width (mm)	Length (mm)	Fixing hole Ø (mm)	Max bundle Ø (mm)	Min bundle Ø (mm)	Tensile minimum resistance (N)	
BP1536•	3,6	155	6	37,9	3,5	180	100/2500
BP2048	4,8	200	8	50,8	3,5	230	100/1500

file n° E 223175 • No UL

HALOGEN FREE

NYLON CABLE-TIES · WITH CROSSWISE MARKING PLATE

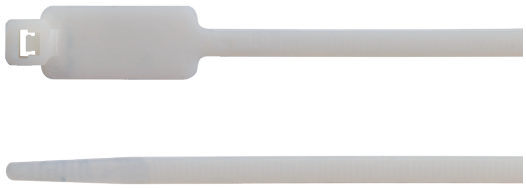
MATERIAL: polyamide (PA 6.6)
COLOR: natural
INSULATION SELF-EXTINGUISHING: UL 94 V2
OPERATING TEMPERATURE: from -40 °C to +85 °C
MINIMUM INSTALLATION TEMPERATURE: -10 °C
CHEMICAL RESISTANCE: good resistance to bases, oils, grease, chloride solvents. Limited resistance to acids. Not resistant to phenols.
ASSEMBLY: open the package just before use
ACCORDING TO STD.: EN 62275:2015-02
CLASSIFICATION: type 1 (EN), type 21 (UL)

Code	Width (mm)	Length (mm)	Plate size (mm)	Max bundle Ø (mm)	Min bundle Ø (mm)	Tensile minimum resistance (N)	
BT21025	2,5	100	25.4 x 8	22	5,5	80	100/1500
BT22025•		200	25.4 x 8	53,5	5,5		100/2000

file n° E 223175 • No UL

HALOGEN FREE

NYLON CABLE-TIES · WITH LENGTHWISE MARKING PLATE



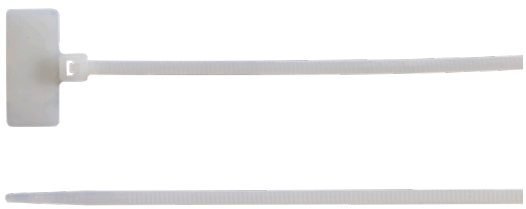
MATERIAL: polyamide (PA 6.6)
COLOR: natural
INSULATION SELF-EXTINGUISHING: UL 94 V2
OPERATING TEMPERATURE: from -40 °C to +85 °C
MINIMUM INSTALLATION TEMPERATURE: -10 °C
CHEMICAL RESISTANCE: good resistance to bases, oils, grease, chloride solvents. Limited resistance to acids. Not resistant to phenols.
ASSEMBLY: open the package just before use
ACCORDING TO STD.: EN 62275:2015-02
CLASSIFICATION: type 1 (EN)

Code	Width (mm)	Length (mm)	Plate size (mm)	Max bundle Ø (mm)	Min bundle Ø (mm)	Tensile minimum resistance (N)	
BT12248	4,8	190	13 x 27	51	3,5	230	100/1300

CE

HALOGEN FREE

NYLON CABLE-TIES · WITH EXTERNAL MARKING PLATE



MATERIAL: polyamide (PA 6.6)
COLOR: natural
INSULATION SELF-EXTINGUISHING: UL 94 V2
OPERATING TEMPERATURE: from -40 °C to +85 °C
MINIMUM INSTALLATION TEMPERATURE: -10 °C
CHEMICAL RESISTANCE: good resistance to bases, oils, grease, chloride solvents. Limited resistance to acids. Not resistant to phenols.
ASSEMBLY: open the package just before use
ACCORDING TO STD.: EN 62275:2015-02
CLASSIFICATION: type 1 (EN)

Code	Width (mm)	Length (mm)	Plate size (mm)	Max bundle Ø (mm)	Min bundle Ø (mm)	Tensile minimum resistance (N)	
BT11125	2,5	110	20 x 9	22	3	80	100/2500

CE

HALOGEN FREE

UV-RESISTANT NYLON CABLE-TIES · FOR HEAVY LOADS

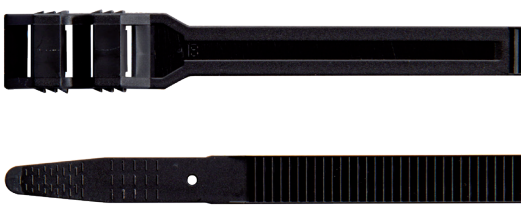
MATERIAL: polyamide (PA 6.6) + carbon black
COLOR: black
OPERATING TEMPERATURE: from -40 °C to +85 °C
MINIMUM INSTALLATION TEMPERATURE: -10 °C
CHEMICAL RESISTANCE: good resistance to bases, oils, grease, chloride solvents. Limited resistance to acids. Not resistant to phenols.
ASSEMBLY: open the package just before use
ACCORDING TO STD.: EN 62275:2015-02
CLASSIFICATION: type 1 (EN), type 21 (UL)

Code	Width (mm)	Length (mm)	Max bundle Ø (mm)	Min bundle Ø (mm)	Tensile minimum resistance (N)	
N2412	12,4	230	57	9	1200	100/100
N4912		480	136,5	9		100/100
N7412		730	216,1	9		100/100
N8912		880	263,9	9		100/100
N1012		1000	305	9		100/100

CE UL LISTED file n° E 223175

HALOGEN FREE UV RESISTANT

NYLON CABLE TIES UV RESISTANT · IMPACT RESISTANT



MATERIAL: polyamide (PA 6.6) + carbon black
COLOR: black
INSULATION SELF-EXTINGUISHING: UL 94 V2
OPERATING TEMPERATURE: from -40 °C to +85 °C
MINIMUM INSTALLATION TEMPERATURE: -10 °C
CHEMICAL RESISTANCE: good resistance to bases, oils, grease, chloride solvents. Limited resistance to acids. Not resistant to phenols.
ASSEMBLY: open the package just before use
ACCORDING TO STD.: EN 62275:2015-02
CLASSIFICATION: type 1 (EN)

Code	Width (mm)	Length (mm)	Max bundle Ø (mm)	Min bundle Ø (mm)	Tensile minimum resistance (N)	
N1890	9	180	40	20	400	100/1500
N2690	9	265	62	20	540	100/1400
N3690		360	93	20		100/500

CE

HALOGEN FREE UV RESISTANT

ACCESSORIES FOR NYLON CABLE-TIES · ONE WAY CABLE TIE MOUNTS

MATERIAL: polyamide (PA 6.6)

COLOR: natural

INSULATION SELF-EXTINGUISHING: UL 94 V2

OPERATING TEMPERATURE: from -40 °C to +85 °C

MINIMUM INSTALLATION TEMPERATURE: -10 °C

CHEMICAL RESISTANCE: good resistance to bases, oils, grease, chloride solvents. Limited resistance to acids. Not resistant to phenols.

Code	For cable ties with max width (mm)	Dimensions (mm)	Height (mm)	Fixing hole Ø (mm)	Fixing screw Ø (mm)	
B0905	3,6	15,2 x 9,4	6,8	3,3	3	100/3000
B0906	9	22 x 16,2	10,8	5,2	5	100/1000

HALOGEN FREE

ACCESSORIES FOR NYLON CABLE-TIES · ONE WAY CABLE TIE MOUNTS · UV RESISTANT

MATERIAL: polyamide (PA 6.6) + carbon black

COLOR: black

INSULATION SELF-EXTINGUISHING: UL 94 V2

OPERATING TEMPERATURE: from -40 °C to +85 °C

MINIMUM INSTALLATION TEMPERATURE: -10 °C

CHEMICAL RESISTANCE: good resistance to bases, oils, grease, chloride solvents. Limited resistance to acids. Not resistant to phenols.

Code	For cable ties with max width (mm)	Dimensions (mm)	Height (mm)	Fixing hole Ø (mm)	Fixing screw Ø (mm)	
N0905	3,6	15,2 x 9,4	6,8	3,3	3	100/3000
N0906	9	22 x 16,2	10,8	5,2	5	100/1000

HALOGEN FREE

UV RESISTANT

ACCESSORIES FOR NYLON CABLE-TIES · 2-WAY CABLE TIE MOUNTS

MATERIAL: polyamide (PA 6.6) + adhesive

COLOR: natural

INSULATION SELF-EXTINGUISHING: UL 94 V2

OPERATING TEMPERATURE: from -40 °C to +85 °C

MINIMUM INSTALLATION TEMPERATURE: -10 °C

CHEMICAL RESISTANCE: good resistance to bases, oils, grease, chloride solvents. Limited resistance to acids. Not resistant to phenols.

Code	For cable ties with max width (mm)	Dimensions (mm)	Height (mm)	Fixing hole Ø (mm)	Fixing screw Ø (mm)	Type of mount	
B0901	3,6	19 x 19	5,4	3,3	3	adhesive	100/1500
B0902	4,8	28 x 28	7	5,5	5	adhesive	100/1000
B0903•			5,8			screw	100/1000

UL LISTED file n° E 223175 • No UL

HALOGEN FREE

ACCESSORIES FOR NYLON CABLE-TIES · 2-WAY CABLE TIE MOUNTS · UV RESISTANT

MATERIAL: polyamide (PA 6.6) + adhesive

COLOR: black

INSULATION SELF-EXTINGUISHING: UL 94 V2

OPERATING TEMPERATURE: from -40 °C to +85 °C

MINIMUM INSTALLATION TEMPERATURE: -10 °C

CHEMICAL RESISTANCE: good resistance to bases, oils, grease, chloride solvents. Limited resistance to acids. Not resistant to phenols.

Code	For cable ties with max width (mm)	Dimensions (mm)	Height (mm)	Fixing hole Ø (mm)	Fixing screw Ø (mm)	Type of mount	
N0901	3,6	19 x 19	5,4	3,3	3	adhesive	100/1500
N0902	4,8	28 x 28	7	5,5	5	adhesive	100/1000
N0903•			5,8			screw	100/1000

UL LISTED file n° E 223175 • No UL

HALOGEN FREE UV RESISTANT

ACCESSORIES FOR NYLON CABLE-TIES · WALL PLUG FIXING BRACKET · UV RESISTANT

MATERIAL: polyamide (PA 6.6) + carbon black
COLOR: black
INSULATION SELF-EXTINGUISHING: UL 94 V2
OPERATING TEMPERATURE: from -40 °C to +85 °C
MINIMUM INSTALLATION TEMPERATURE: -10 °C
CHEMICAL RESISTANCE: good resistance to bases, oils, grease, chloride solvents. Limited resistance to acids. Not resistant to phenols.

Code	For cable ties with max width (mm)	Dimensions (mm)	Fixing hole Ø (mm)	
B0904	9	8,1 x 38,1	6	100/600

HALOGEN FREE

AUTOMATIC CLAMP FOR NYLON CABLE TIES

MATERIAL: structure in polymer and fiberglass, internal parts in metal
FOR CABLE TIES IN: nylon

Code	Description	
1100	For cable ties with width ranging from 2.5 to 4.8 mm. Automatic tension and cut control. Equipped with tightening adjustment.	1/12

CLAMP FOR NYLON CABLE TIES

MATERIAL: metal
FOR CABLE TIES IN: nylon

Code	Description	
1101	For cable ties with width ranging up to 12,4 mm. Long lever to tighten the cable tie, short lever to cut the excess.	1/1

VELCRO CABLE-TIES · WRAP STRAP

MATERIAL: polyethylene-polyamide (PE-PA)
COLOR: white
OPERATING TEMPERATURE: from -20 °C to +60 °C

Code	Width (mm)	Length (mm)	Max bundle Ø (mm)	Tensile minimum resistance (N)	
BV2312	12,7	229	55	180	10/100
BV2319	19	229	55	220	10/100

VELCRO CABLE-TIES · WRAP STRAP

MATERIAL: polyethylene-polyamide (PE-PA)
COLOR: black
OPERATING TEMPERATURE: from -20 °C to +60 °C

Code	Width (mm)	Length (mm)	Max bundle Ø (mm)	Tensile minimum resistance (N)	
NV2312	12,7	229	55	180	10/100

STAINLESS STEEL CABLE-TIES · SELF-LOCKING

MATERIAL: AISI 304 stainless steel
THICKNESS: 0,25 ± 0,05 mm
INSULATION SELF-EXTINGUISHING: not flammable
LOCKING MECHANISM: ball
OPERATING TEMPERATURE: from -60 °C to +300 °C
MINIMUM INSTALLATION TEMPERATURE: -60 °C
PLENUM RATING: AH-1
UV RAYS RESISTANCE: excellent
CHEMICAL RESISTANCE: excellent
ACCORDING TO STD.: EN 62275:2015-02
CLASSIFICATION: type 2 (EN), type 2 (UL)

Code	Width (mm)	Length (mm)	Max bundle Ø (mm)	Min bundle Ø (mm)	Tensile minimum resistance (N)	
S1345	4,6	125	38	15	890	100/100
S2045		200	61,9	15		100/100
S3045		290	90,6	15		100/100
S3745		360	112,8	15		100/100
S5245		520	163,8	15		100/100
S6845		680	214,8	15		100/100
S8445		840	265,7	15		100/100
S2079	7,9	200	61,9	15	1500	100/100
S3079		290	90,6	15		100/100
S3779		360	112,8	15		100/100
S5079		520	163,8	15		100/100
S6879		680	214,8	15		100/100
S8479		840	265,7	15		100/100
S1079		1010	319	15		100/100

CE UL LISTED file n° E 223175

STAINLESS STEEL CABLE-TIES · SELF-LOCKING · WITH POLYESTER COATING

MATERIAL: AISI 304 stainless steel
THICKNESS: 0,35 ± 0,05 mm
COLOR: black
INSULATION SELF-EXTINGUISHING: not flammable
COATING: polyester
LOCKING MECHANISM: ball
OPERATING TEMPERATURE: from -40 °C to +150 °C
MINIMUM INSTALLATION TEMPERATURE: -40 °C
PLENUM RATING: AH-1
UV RAYS RESISTANCE: excellent
CHEMICAL RESISTANCE: excellent
ACCORDING TO STD.: EN 62275:2015-02
CLASSIFICATION: type 2 (EN), type 2 (UL)

Code	Width (mm)	Length (mm)	Max bundle Ø (mm)	Min bundle Ø (mm)	Tensile minimum resistance (N)	
SC1345	4,6	125	38	15	450	100/100
SC2045		200	61,9	15		100/100
SC3045		290	90,6	15		100/100
SC3745		360	112,8	15		100/100
SC5245		520	163,8	15		100/100
SC6845		680	214,8	15		100/100
SC8445		840	265,7	15		100/100
SC2079	7,9	200	61,9	15	800	100/100
SC3079		290	90,6	15		100/100
SC3779		360	112,8	15		100/100
SC5079		520	163,8	15		100/100
SC6879		680	214,8	15		100/100
SC8479		840	265,7	15		100/100

CE UL LISTED file n° E 223175

HALOGEN FREE

AUTOMATIC CLAMP FOR STAINLESS STEEL CABLE TIES

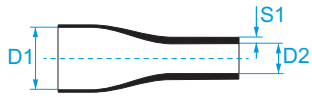
MATERIAL: metal with aluminum frame
FOR CABLE TIES IN: stainless steel

Code	Description	
1105	For cable ties with width up to 7.9 mm and thickness up to 0.35 mm. Automatic cut-off once required tension is achieved. Adjustable tension dial for four levels bunding pressure.	1/1

CABLE PROTECTION

THIN WALL 2:1	pag. 202
THIN WALL 3:1	pag. 206
ACCESSORIES	pag. 207

CABLE PROTECTION · THERMO SHRINKING · THIN WALL 2:1 · REEL



TYPE: single wall

SHRINKAGE RATIO: 2:1

MATERIAL: polyethylene

OPERATING TEMPERATURE: from -55°C to +125°C max (+105 °C max for transparent)

SHRINKAGE TEMPERATURE: from +70°C to +125°C

VRMS MAX: 600 V

HALOGEN FREE: all colours except for yellow-green and trasparent

SHEATH SELF-EXTINGUISHING GRADE: UL 224 VW-1 (except transparent and yellow-green)

APPLICATIONS: economic and efficient insulation and protection of connections and terminals in various industries, including electronics, automotive, railway and marine. The availability of many colours makes cable identification easy.

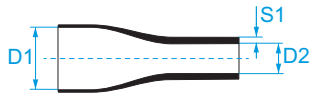
Code	Size (mm)	Length (m)	Color	D1 (Ø mm)	D2 (Ø mm)	S1 (mm)	(m)
GBS012BBI	1,2	200	White	1,2	0,6	0,38	200/200
GBS012BBL		200	Blue			0,38	200/200
GBS012BNE		200	Black			0,38	200/200
GBS012BRO		200	Red			0,38	200/200
GBS012BTR•		200	Transparent			0,38	200/200
GBS016BBI	1,6	200	White	1,6	0,8	0,40	200/200
GBS016BBL		200	Blue			0,40	200/200
GBS016BNE		200	Black			0,40	200/200
GBS016BRO		200	Red			0,40	200/200
GBS016BTR•		200	Transparent			0,40	200/200
GBS024BBI	2,4	200	White	2,4	1,2	0,48	200/200
GBS024BBL		200	Blue			0,48	200/200
GBS024BNE		200	Black			0,48	200/200
GBS024BRO		200	Red			0,48	200/200
GBS024BTR•		200	Transparent			0,48	200/200
GBS032BBI	3,2	200	White	3,2	1,6	0,48	200/200
GBS032BBL		200	Blue			0,48	200/200
GBS032BGV•		200	YellowGreen			0,48	200/200
GBS032BNE		200	Black			0,48	200/200
GBS032BRO		200	Red			0,48	200/200
GBS032BTR•		200	Transparent			0,48	200/200
GBS048BBI	4,8	100	White	4,8	2,4	0,48	100/100
GBS048BBL		100	Blue			0,48	100/100
GBS048BGV•		100	YellowGreen			0,48	100/100
GBS048BNE		100	Black			0,48	100/100
GBS048BRO		100	Red			0,48	100/100
GBS048BTR•		100	Transparent			0,48	100/100
GBS064BBI	6,4	100	White	6,4	3,2	0,56	100/100
GBS064BBL		100	Blue			0,56	100/100
GBS064BGV•		100	YellowGreen			0,56	100/100
GBS064BNE		100	Black			0,56	100/100
GBS064BRO		100	Red			0,56	100/100
GBS064BTR•		100	Transparent			0,56	100/100
GBS095BBI	9,5	100	White	9,5	4,8	0,62	100/100
GBS095BBL		100	Blue			0,62	100/100
GBS095BGV•		100	YellowGreen			0,62	100/100
GBS095BNE		100	Black			0,62	100/100
GBS095BRO		100	Red			0,62	100/100
GBS095BTR•		100	Transparent			0,62	100/100
GBS127BBI	12,7	100	White	12,7	6,4	0,62	100/100
GBS127BBL		100	Blue			0,62	100/100
GBS127BGV•		100	YellowGreen			0,62	100/100
GBS127BNE		100	Black			0,62	100/100
GBS127BRO		100	Red			0,62	100/100
GBS127BTR•		100	Transparent			0,62	100/100

Code	Size (mm)	Length (m)	Color	D1 (Ø mm)	D2 (Ø mm)	S1 (mm)	(m)
GBS190BBI	19	100	White	19,1	9,5	0,89	100/100
GBS190BBL		100	Blue			0,89	100/100
GBS190BGV•		100	YellowGreen			0,89	100/100
GBS190BNE		100	Black			0,89	100/100
GBS190BRO		100	Red			0,89	100/100
GBS190BTR•		100	Transparent			0,89	100/100
GBS254BBI	25,4	50	White	25,4	12,7	0,89	50/50
GBS254BBL		50	Blue			0,89	50/50
GBS254BGV•		50	YellowGreen			0,89	50/50
GBS254BNE		50	Black			0,89	50/50
GBS254BRO		50	Red			0,89	50/50
GBS254BTR•		50	Transparent			0,89	50/50
GBS318BBI	31,8	50	White	31,8	15,9	1,00	50/50
GBS318BBL		50	Blue			1,00	50/50
GBS318BNE•		50	Black			1,00	50/50
GBS318BRO		50	Red			1,00	50/50
GBS318BTR•		50	Transparent			1,00	50/50
GBS380BBI	38	50	White	38,1	19,1	1,00	50/50
GBS380BBL		50	Blue			1,00	50/50
GBS380BGV•		50	YellowGreen			1,00	50/50
GBS380BNE		50	Black			1,00	50/50
GBS380BRO		50	Red			1,00	50/50
GBS380BTR•		50	Transparent			1,00	50/50
GBS510BBI•	51	25	White	50,8	25,4	1,10	25/25
GBS510BBL•		25	Blue			1,10	25/25
GBS510BNE•		25	Black			1,10	25/25
GBS510BRO•		25	Red			1,10	25/25
GBS510BTR•		25	Transparent			1,10	25/25
GBS760BBI•	76	25	White	76,2	38,1	1,20	25/25
GBS760BBL•		25	Blue			1,20	25/25
GBS760BNE•		25	Black			1,20	25/25
GBS760BRO•		25	Red			1,20	25/25
GBS760BTR•		25	Transparent			1,20	25/25
GBS102BBI•	102	25	White	101,6	50,8	1,35	25/25
GBS102BBL•		25	Blue			1,35	25/25
GBS102BNE•		25	Black			1,35	25/25
GBS102BRO•		25	Red			1,35	25/25
GBS102BTR•		25	Transparent			1,35	25/25

file n° E245489 • No UL

HALOGEN FREE FLAME RETARDANT 2:1

THERMO SHRINKING CABLE PROTECTION · THIN WALL 2:1 · IN MINIBOX



SHRINKAGE RATIO: 2:1

MATERIAL: polyethylene

OPERATING TEMPERATURE: from -55°C to +125°C max

SHRINKAGE TEMPERATURE: from +70°C to +125°C

VRMS MAX: 600 V

HALOGEN FREE: all colours except for yellow-green

SHEATH SELF-EXTINGUISHING GRADE: UL 224 VW-1 except for yellow-green

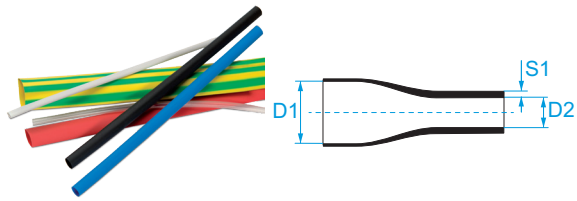
APPLICATIONS: economic and efficient insulation and protection of connections and terminals in various industries, including electronics, automotive, railway and marine. The availability of many colours makes cable identification easy.

Code	Size (mm)	Length (m)	Color	D1 (Ø mm)	D2 (Ø mm)	S1 (mm)	
GBS016MBL	1,6	12	Blue	1,6	0,8	0,40	1/1
GBS016MNE		12	Black			0,40	1/1
GBS016MRO		12	Red			0,40	1/1
GBS024MBL	2,4	11	Blue	2,4	1,2	0,48	1/1
GBS024MNE		11	Black			0,48	1/1
GBS024MRO		11	Red			0,48	1/1
GBS032MBL	3,2	11	Blue	3,2	1,6	0,48	1/1
GBS032MGV•		11	YellowGreen			0,48	1/1
GBS032MNE		11	Black			0,48	1/1
GBS032MRO		11	Red			0,48	1/1
GBS048MBL	4,8	10	Blue	4,8	2,4	0,48	1/1
GBS048MGV•		10	YellowGreen			0,48	1/1
GBS048MNE		10	Black			0,48	1/1
GBS048MRO		10	Red			0,48	1/1
GBS064MBL	6,4	9	Blue	6,4	3,2	0,56	1/1
GBS064MGV•		9	YellowGreen			0,56	1/1
GBS064MNE		9	Black			0,56	1/1
GBS064MRO		9	Red			0,56	1/1
GBS095MBL	9,5	7	Blue	9,5	4,8	0,62	1/1
GBS095MGV•		7	YellowGreen			0,62	1/1
GBS095MNE		7	Black			0,62	1/1
GBS095MRO		7	Red			0,62	1/1
GBS127MBL	12,7	6	Blue	12,7	6,4	0,62	1/1
GBS127MGV•		6	YellowGreen			0,62	1/1
GBS127MNE		6	Black			0,62	1/1
GBS127MRO		6	Red			0,62	1/1
GBS190MBL	19	5	Blue	19,1	9,5	0,69	1/1
GBS190MGV•		5	YellowGreen			0,69	1/1
GBS190MNE		5	Black			0,69	1/1
GBS190MRO		5	Red			0,69	1/1
GBS254MBL	25,4	3,5	Blue	25,4	12,7	0,89	1/1
GBS254MGV•		3,5	YellowGreen			0,89	1/1
GBS254MNE		3,5	Black			0,89	1/1
GBS254MRO		3,5	Red			0,89	1/1

file n° E245489 • No UL

HALOGEN FREE FLAME RETARDANT 2:1

THERMO SHRINKING CABLE PROTECTION · THIN WALL 2:1 · BAR



TYPE: single wall

SHRINKAGE RATIO: 2:1

MATERIAL: polyethylene

OPERATING TEMPERATURE: from -55°C to +125°C max (+105 °C max for transparent)

SHRINKAGE TEMPERATURE: from +70°C to +125°C

VRMS MAX: 600 V

HALOGEN FREE: all colours except for yellow-green and trasparent

SHEATH SELF-EXTINGUISHING GRADE: UL 224 VW-1 (except transparent and yellow-green)

APPLICATIONS: economic and efficient insulation and protection of connections and terminals in various industries, including electronics, automotive, railway and marine. The availability of many colours makes cable identification easy.

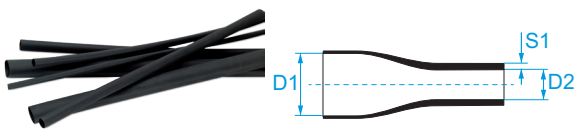
Code	Size (mm)	Length (m)	Color	D1 (Ø mm)	D2 (Ø mm)	S1 (mm)	
GBS024SBI	2,4	1	White	2,4	1,2	0,48	25/25
GBS024SBL		1	Blue			0,48	25/25
GBS024SNE		1	Black			0,48	25/25
GBS024SRO		1	Red			0,48	25/25
GBS024STR•		1	Transparent			0,48	25/25
GBS032SBI	3,2	1	White	3,2	1,6	0,48	25/25
GBS032SBL		1	Blue			0,48	25/25
GBS032SGV•		1	YellowGreen			0,48	25/25
GBS032SNE		1	Black			0,48	25/25
GBS032SRO		1	Red			0,48	25/25
GBS032STR•		1	Transparent			0,48	25/25
GBS048SBI	4,8	1	White	4,8	2,4	0,48	10/10
GBS048SBL		1	Blue			0,48	10/10
GBS048SGV•		1	YellowGreen			0,48	10/10
GBS048SNE		1	Black			0,48	10/10
GBS048SRO		1	Red			0,48	10/10
GBS048STR•		1	Transparent			0,48	10/10
GBS064SBI	6,4	1	White	6,4	3,2	0,56	10/10
GBS064SBL		1	Blue			0,56	10/10
GBS064SGV•		1	YellowGreen			0,56	10/10
GBS064SNE		1	Black			0,56	10/10
GBS064SRO		1	Red			0,56	10/10
GBS064STR•		1	Transparent			0,56	10/10
GBS095SBI	9,5	1	White	9,5	4,8	0,62	10/10
GBS095SBL		1	Blue			0,62	10/10
GBS095SGV•		1	YellowGreen			0,62	10/10
GBS095SNE		1	Black			0,62	10/10
GBS095SRO		1	Red			0,62	10/10
GBS095STR•		1	Transparent			0,62	10/10
GBS127SBI	12,7	1	White	12,7	6,4	0,62	10/10
GBS127SBL		1	Blue			0,62	10/10
GBS127SGV•		1	YellowGreen			0,62	10/10
GBS127SNE		1	Black			0,62	10/10
GBS127SRO		1	Red			0,62	10/10
GBS127STR•		1	Transparent			0,62	10/10
GBS190SBI	19	1	White	19,1	9,5	0,69	10/10
GBS190SBL		1	Blue			0,69	10/10
GBS190SGV•		1	YellowGreen			0,69	10/10
GBS190SNE		1	Black			0,69	10/10
GBS190SRO		1	Red			0,69	10/10
GBS190STR•		1	Transparent			0,69	10/10
GBS254SBI	25,4	1	White	25,4	12,7	0,89	10/10
GBS254SBL		1	Blue			0,89	10/10
GBS254SGV•		1	YellowGreen			0,89	10/10
GBS254SNE		1	Black			0,89	10/10
GBS254SRO		1	Red			0,89	10/10
GBS254STR•		1	Transparent			0,89	10/10

Code	Size (mm)	Length (m)	Color	D1 (Ø mm)	D2 (Ø mm)	S1 (mm)	
GBS380SBI	38	1	White	38,1	19,1	1,00	10/10
GBS380SBL		1	Blue			1,00	10/10
GBS380SGV•		1	YellowGreen			1,00	10/10
GBS380SNE		1	Black			1,00	10/10
GBS380SRO		1	Red			1,00	10/10
GBS380STR•		1	Transparent			1,00	10/10
GBS510SBI•	51	1	White	50,8	25,4	1,10	5/5
GBS510SBL•		1	Blue			1,10	5/5
GBS510SGV•		1	YellowGreen			1,10	5/5
GBS510SNE•		1	Black			1,10	5/5
GBS510SRO•		1	Red			1,10	5/5
GBS510STR•		1	Transparent			1,10	5/5

file n° E245489 • No UL

HALOGEN FREE FLAME RETARDANT 2:1

THERMO SHRINKING CABLE PROTECTION · THIN WALL 3:1 WITH ADHESIVE · BAR



TYPE: double wall with adhesive
SHRINKAGE RATIO: 3:1
MATERIAL: polyethylene
OPERATING TEMPERATURE: from -55°C to +125°C max
SHRINKAGE TEMPERATURE: from +70°C to +125°C
VRMS MAX: 600 V
SHEATH SELF-EXTINGUISHING GRADE: UL 224 VW-1
APPLICATIONS: superior insulation, watertightness and protection of connections and terminals in various industries, including electronics, automotive, railway and marine.

Code	Size (mm)	Length (m)	Color	D1 (Ø mm)	D2 (Ø mm)	S1 (mm)	
GBA030SNE	3	1	Black	3,0	1,0	1,00	25/25
GBA060SNE	6	1	Black	6,0	2,0	1,00	10/10
GBA090SNE	9	1	Black	9,0	3,0	1,35	10/10
GBA120SNE	12	1	Black	12,0	4,0	1,65	10/10
GBA190SNE	19	1	Black	19,0	6,4	2,10	10/10
GBA240SNE	24	1	Black	24,0	8,0	2,35	10/10

file n° E245489

FLAME RETARDANT 3:1

HEAT GUN

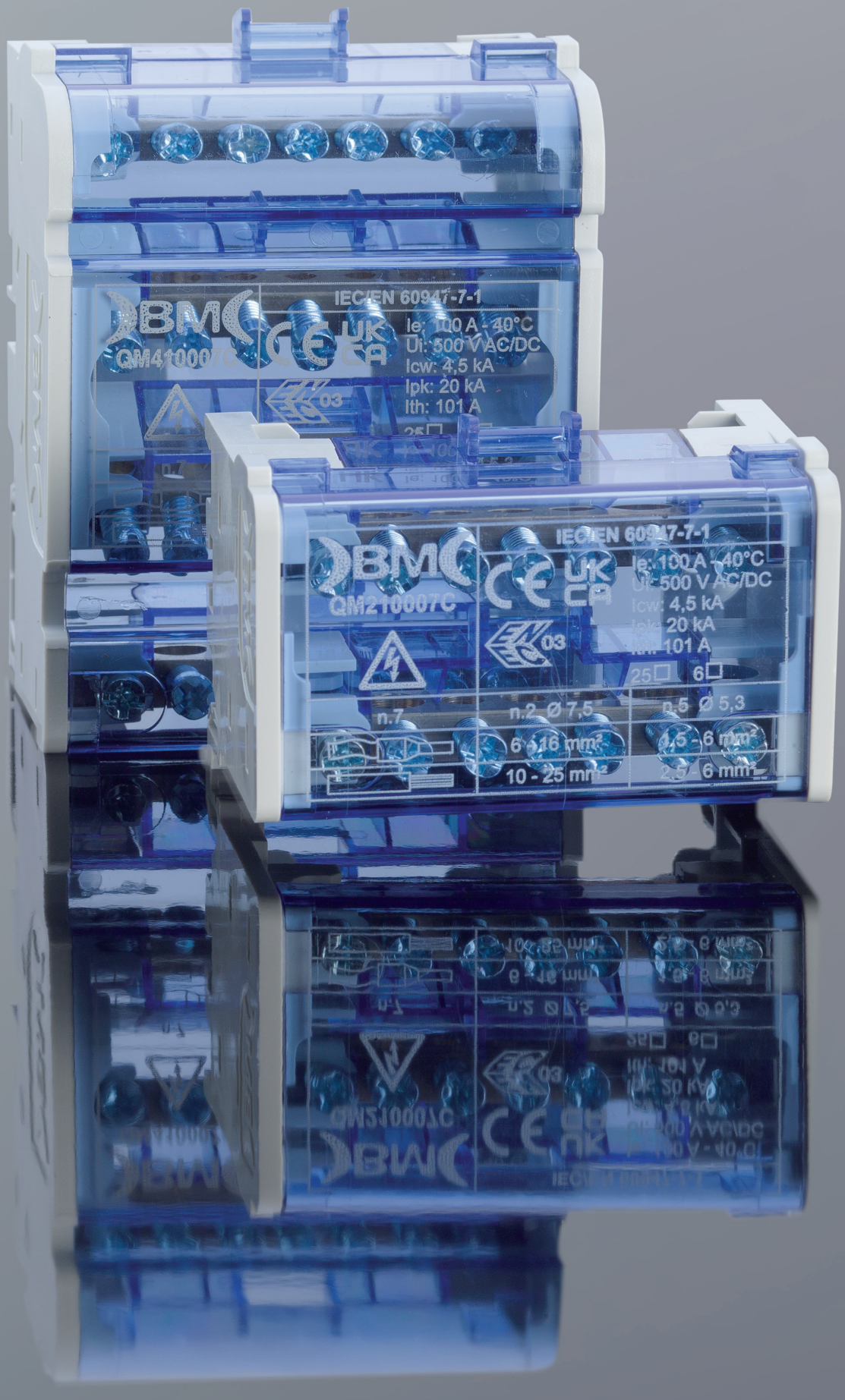
Heat gun with multiple-stage switch for adjusting airflow and thumbwheel for setting temperature.
Double protection against over-heating: thermostat and thermic stop.

Code	Power (W)	Voltage	Weight (g)	Selector	Temperature (°C)	Air output (l/min)	
1108	1000	220-230 V, 50-60 Hz	800	Pos.I Pos. II Pos. III	50 80-600 80-600	150 150-300 300-500	1/1

REFLECTING NOZZLES

The reflecting nozzles channel the 1108 heat gun's hot air output, speeding up the thermo-shrinking process.

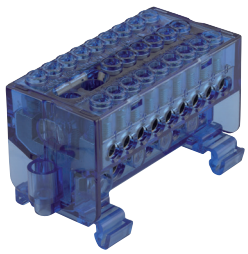
Code	Description	Width (mm)	
11081	narrow nozzle	31	1/1

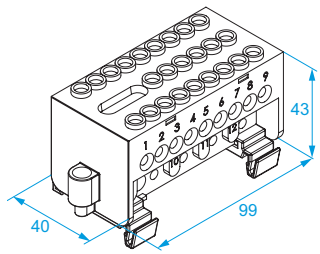

IEC/EN 60947-7-1
Ie: 100 A - 40°C
Ui: 500 V AC/DC
Icw: 4,5 kA
Ipk: 20 kA
Ith: 101 A
QM210007C
n.7
n.2 Ø 7,5
6 - 16 mm²
10 - 25 mm²
n.5 Ø 5,3
4,5 - 6 mm²
6 mm²

PANEL BOARDS COMPONENTS

MODULAR DISTRIBUTION BLOCKS	pag. 210
BRAIDS	pag. 215
THREADED BARS	pag. 217
INSULATORS AND SPACERS	pag. 218
SHEATHS FOR CABLE PROTECTION	pag. 221
CUTTING AND DRILLING DIN BARS	pag. 222

DISTRIBUTION BLOCK FOR GROUND CONNECTIONS





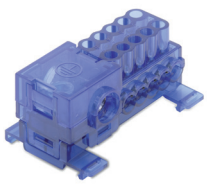
One-way distribution block with 26 inputs that can be installed by means of screws or DIN 46277/3 (EN 50022) rails.
The small size allows installation inside the small boxes usually found in buildings with existing piping. The two-level cabling system allows the wires to be easily inserted. The use of this distribution block is recommended both for connecting the conductors as an equipotential earth node and for connection to extraneous masses (metal structures, piping etc.) in the electrical facilities of medical premises.

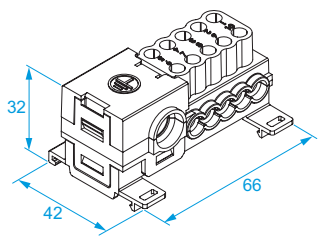
INSULATING HOUSING: transparent polycarbonate (PC) UL 94 V0
CONDUCTIVE BODY: nickel-plated brass
CAPTIVE SCREWS: galvanized steel
MAX OPERATING TEMPERATURE: 85 °C

Code	Overall inputs	Inputs	Conductor section (mm²)	Type of connection	
9926	26	Ø 9 x 2 Ø 5,4 x 24	16 ÷ 35 2,5 ÷ 10	⏚	1/5

HALOGEN FREE

DISTRIBUTION BLOCK FOR GROUND CONNECTIONS





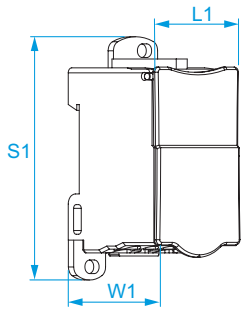
One-way distribution block with 26 inputs that can be installed by means of screws or DIN 46277/3 (EN 50022) rails. The small size allows installation inside the small boxes usually found in buildings with existing piping. The two-level cabling system allows the wires to be easily inserted. The use of this distribution block is recommended both for connecting the conductors as an equipotential earth node and for connection to extraneous masses (metal structures, piping etc.) in the electrical facilities of medical premises.

INSULATING HOUSING: transparent polycarbonate (PC) UL 94 V0
CONDUCTIVE BODY: nickel-plated brass
CAPTIVE SCREWS: galvanized steel
MAX OPERATING TEMPERATURE: 85 °C

Code	Overall inputs	Inputs	Conductor section (mm²)	Type of connection	
9985	11	Ø 9 x 1 Ø 4,9 x 10	16 ÷ 35 1 ÷ 6	⏚	1/6

HALOGEN FREE

DISTRIBUTION BLOCKS · 1-WAY · 80A, 125A, 160A, 250A, 400A, 500A



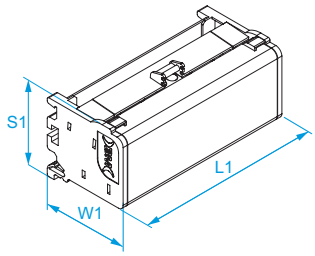
INSULATING HOUSING: polyamide (PA6.6) UL 94 V0
COVER: polycarbonate (PC)
CONDUCTIVE BODY: tinned brass
SCREWS: galvanized steel
RATED INSULATION VOLTAGE: 1000 V AC/DC (IEC), 600 V AC/DC (IEC)
ACCORDING TO STD.: IEC/EN 60947-7-1, UL 1059

Code	In (A)	Connections (mm x Nr.)	IEC conductor (mm²)	UL conductor (AWG/kcmil)	IEC Torque (Nm)	UL Torque (lb x in)	IEC Uimp (kV)	IEC Icw (kA)	IEC Ipk (kA)	L1 (mm)	W1 (mm)	S1 (mm)	
QM108007C	80 (IEC) 85 (UL)	Ø 6,8 x 1 Ø 6,8 x 2 Ø 4,5 x 4	6 - 16 2,5 - 16 2,5 - 6	16 - 4 16 - 4 16 - 8	3,5 3,5 1,2	19.5 19.5 10.6	12	3	22	27	47	66	5/5
QM112508C	125 (IEC) 150 (UL)	Ø 10 x 1 Ø 6,8 x 1 Ø 6,8 x 6	10 - 35 6 - 16 2,5 - 16	8 - 1/0 14 - 2 14 - 4	8,5 3,5 3,5	57 31 31	12	4,2	30	29	46	76	5/5
QM116008C	160 (IEC) 200 (UL)	Ø 12,3 x 1 Ø 6,8 x 1 Ø 6,8 x 6	10 - 70 6 - 16 2,5 - 16	8 - 3/0 14 - 2 14 - 4	8,5 3,5 3,5	75 31 31	12	11,8	30	29	46	76	5/5
QM125012C	250 (IEC) 255 (UL)	Ø 15 x 1 Ø 9 x 2 Ø 6,8 x 5 Ø 6,1 x 4	35 - 120 6 - 35 2,5 - 16 2,5 - 10	6 - 250 10 - 1 14 - 4 14 - 6	19 4,4 2,7 2,7	168 39 24 24	12	24,5	51	47	50	97	3/3
QM140012C	400 (IEC) 335 (UL)	Ø 19 x 1 Ø 9 x 2 Ø 6,8 x 5 Ø 6,1 x 4	95 - 185 6 - 35 2,5 - 16 2,5 - 10	3/0 - 400 10 - 1 14 - 4 14 - 6	25 4,4 2,7 2,7	221 39 24 24	12	24,5	51	47	50	97	3/3
QM150012B	500 (IEC) 335 (UL)	[25x9] x 1 Ø 9 x 2 Ø 6,8 x 5 Ø 6,1 x 4	4-6x(15,5x0,8) 2-6x(20x1) 2-8x(24x1) 6 - 35 2,5 - 16 2,5 - 10	min 2x(20x1) max 8x(24x1) 10 - 1 14 - 4 14 - 6	13,5 4,4 2,7 2,7	120 39 24 24	12	24,5	51	47	50	97	3/3

file n° E 70156

IP20 HALOGEN FREE

DISTRIBUTION BLOCKS · 2-WAYS · 40A, 100A, 125 A

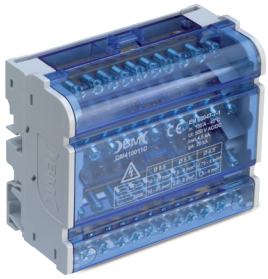


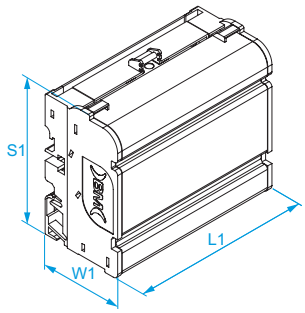
INSULATING HOUSING: polycarbonate (PC) UL 94 V0
PROTECTIONS: transparent polycarbonate (PC) UL 94 V0
CONNECTION BARS: brass
SCREWS: galvanized steel
INSULATION SELF-EXTINGUISHING: IEC/EN 60695-2-11 at 850 °C
AMBIENT TEMPERATURE: 40 °C
RATED INSULATION VOLTAGE: 500 V
POLLUTION DEGREE: 3
ACCORDING TO STD.: IEC/EN 60947-7-1

Code	Rated Current In (A)	Short-Time Current Icw (kA)	Peak Current Ipk (kA)	Connections for way (mm x Nr.)	Conductor section flexible with end-sleeve (mm²)	Conductor section rigid (mm²)	Tightening torque (Nm)	L1 (mm)	W1 (mm)	S1 (mm)	
QM204017C	40	4,5	20	Ø 6 x 2 Ø 4,3 x 15	4 - 10 0,75 - 4	6 - 16 1,5 - 4	2 - 3 1,2 - 1,5	140	50	47	1/1
QM210007C	100	4,5	20	Ø 7,5 x 2 Ø 5,3 x 5	6 - 16 1,5 - 6	10 - 25 2,5 - 6	2 - 3 2 - 3	70	50	47	1/1
QM210015C	100	4,5	20	Ø 8,5 x 2 Ø 5,5 x 7 Ø 4,5 x 6	10 - 25 1,5 - 6 0,75 - 4	10 - 25 2,5 - 6 1,5 - 4	2 - 3 2 - 3 1,2 - 1,5	140	50	47	1/1
QM212507C	125	4,5	20	Ø 9 x 1 Ø 7,5 x 1 Ø 5,3 x 5	10 - 25 6 - 16 1,5 - 6	10 - 35 10 - 25 2,5 - 6	2 - 3 2 - 3 2 - 3	70	50	47	1/1
QM212511C	125	4,5	20	Ø 9 x 2 Ø 7,5 x 2 Ø 5,3 x 7	10 - 25 6 - 16 1,5 - 6	10 - 35 10 - 25 2,5 - 6	2 - 3 2 - 3 2 - 3	105	50	47	1/1
QM212515C	125	4,5	20	Ø 9 x 2 Ø 7,5 x 2 Ø 5,3 x 11	10 - 25 6 - 16 1,5 - 6	10 - 35 10 - 25 2,5 - 6	2 - 3 2 - 3 2 - 3	140	50	47	1/1

HALOGEN FREE

DISTRIBUTION BLOCKS · 4-WAYS · 40A, 100A, 125 A



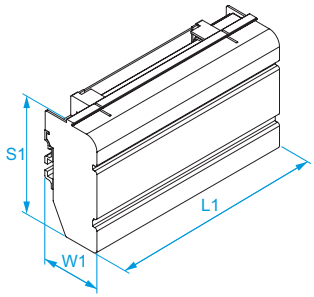


INSULATING HOUSING: polycarbonate (PC) UL 94 V0
PROTECTIONS: transparent polycarbonate (PC) UL 94 V0
CONNECTION BARS: brass
SCREWS: galvanized steel
INSULATION SELF-EXTINGUISHING: IEC/EN 60695-2-11 at 850 °C
AMBIENT TEMPERATURE: 40 °C
RATED INSULATION VOLTAGE: 500 V
POLLUTION DEGREE: 3
ACCORDING TO STD.: IEC/EN 60947-7-1

Code	Rated Current In (A)	Short-Time Current Icw (kA)	Peak Current Ipk (kA)	Connections for way (mm x Nr.)	Conductor section flexible with end-sleeve (mm²)	Conductor section rigid (mm²)	Tightening torque (Nm)	L1 (mm)	W1 (mm)	S1 (mm)	
QM404013C	40	4,5	20	Ø 6 x 2 Ø 4,3 x 11	4 - 10 0,75 - 4	6 - 16 1,5 - 4	2 - 3 1,2 - 1,5	105	50	87	1/1
QM410007C	100	4,5	20	Ø 7,5 x 2 Ø 5,3 x 5	6 - 16 1,5 - 6	10 - 25 2,5 - 6	2 - 3 2 - 3	70	50	87	1/1
QM410011C	100	4,5	20	Ø 8,5 x 2 Ø 5,5 x 5 Ø 4,5 x 4	10 - 25 1,5 - 6 0,75 - 4	10 - 25 2,5 - 6 1,5 - 4	2 - 3 2 - 3 1,2 - 1,5	105	50	87	1/1
QM410015C	100	4,5	20	Ø 8,5 x 2 Ø 5,5 x 7 Ø 4,5 x 6	10 - 25 1,5 - 6 0,75 - 4	10 - 25 2,5 - 6 1,5 - 4	2 - 3 2 - 3 1,2 - 1,5	140	50	87	1/1
QM412507C	125	4,5	20	Ø 9 x 1 Ø 7,5 x 1 Ø 5,3 x 5	10 - 25 6 - 16 1,5 - 6	10 - 35 10 - 25 2,5 - 6	2 - 3 2 - 3 2 - 3	70	50	87	1/1
QM412511C	125	4,5	20	Ø 9 x 2 Ø 7,5 x 2 Ø 5,3 x 7	10 - 25 6 - 16 1,5 - 6	10 - 35 10 - 25 2,5 - 6	2 - 3 2 - 3 2 - 3	105	50	87	1/1
QM412515C	125	4,5	20	Ø 9 x 2 Ø 7,5 x 2 Ø 5,3 x 11	10 - 25 6 - 16 1,5 - 6	10 - 35 10 - 25 2,5 - 6	2 - 3 2 - 3 2 - 3	140	50	87	1/1

HALOGEN FREE

DISTRIBUTION BLOCKS · 4-WAYS · 160A

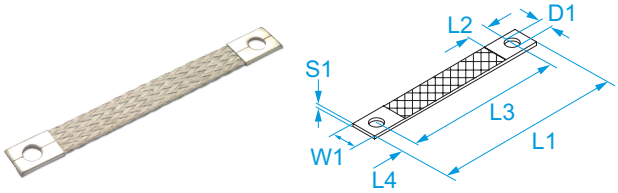


INSULATING HOUSING: polycarbonate (PC) UL 94 V0
PROTECTIONS: transparent polycarbonate (PC) UL 94 V0
CONNECTION BARS: brass
SCREWS: galvanized steel
INSULATION SELF-EXTINGUISHING: IEC/EN 60695-2-11 at 850 °C
AMBIENT TEMPERATURE: 40 °C
RATED INSULATION VOLTAGE: 690 V
POLLUTION DEGREE: 3
ACCORDING TO STD.: IEC/EN 60947-7-1

Code	Rated Current In (A)	Short-Time Current Icw (kA)	Peak Current Ipk (kA)	Connections for way (mm x Nr.)	Conductor section flexible with end-sleeve (mm²)	Conductor section rigid (mm²)	Tightening torque (Nm)	L1 (mm)	W1 (mm)	S1 (mm)	
QM416012L	160	8,2	35	Ø 12 x 1 Ø 8,5 x 3 Ø 7,2 x 7 Ø 5,5 x 1	10 - 50 10 - 25 1,5 - 16 1,5 - 6	10 - 50 10 - 35 2,5 - 16 2,5 - 6	8 - 10 2 - 3 2 - 3 2 - 3	175	50	98	1/1
QM416012H	160	8,2	35	Ø 12 x 1 Ø 8,5 x 3 Ø 7,2 x 7 Ø 5,5 x 1	10 - 50 10 - 25 1,5 - 16 1,5 - 6	10 - 50 10 - 35 2,5 - 16 2,5 - 6	8 - 10 2 - 3 2 - 3 2 - 3	175	70	98	1/1

HALOGEN FREE

FLEXIBLE COPPER TWISTED PAIRS FOR EARTHING CONNECTIONS

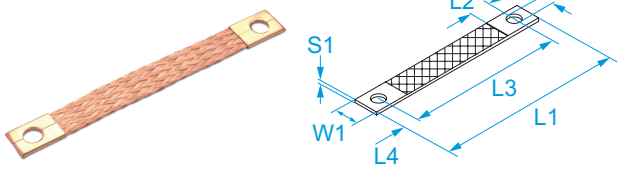


MATERIAL: tinned copper
OPERATING TEMPERATURE: from -50 °C to +150 °C
SINGLE WIRE: Cu-ETP EN13602

Code	Section (mm²)	Section (AWG)	W1 (mm)	S1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	D1 (mm)	Rated current (ΔT = 30 °C) (A)	
61015	10	(8)	17	2	150	12	130	10	9	90	25/25
61020			17	2	200	12	180	10	9	90	25/25
61025			17	2	250	12	230	10	9	90	25/25
61115	16	(6)	17	2,5	150	12	130	10	9	120	25/25
61120			17	2,5	200	12	180	10	9	120	25/25
61125			17	2,5	250	12	230	10	9	120	25/25
61130			17	2,5	320	12	300	10	9	120	25/25
61135			17	2,5	350	12	330	10	9	120	25/25
61142			17	2,5	420	12	400	10	9	120	25/25
61157			17	2,5	570	12	550	10	9	120	25/25
61166			17	2,5	660	12	640	10	9	120	25/25
61215	25	(4)	22	3	150	12	130	10	9	150	25/25
61220			22	3	200	12	180	10	9	150	25/25
61225			22	3	250	12	230	10	9	150	25/25
61230			22	3	300	12	280	10	9	150	25/25

Different sizes are available on demand.

FLEXIBLE COPPER TWISTED PAIRS FOR EARTHING CONNECTIONS

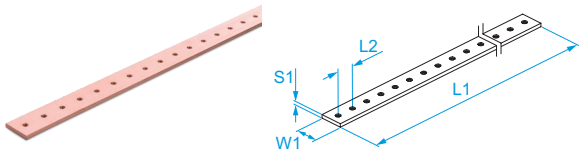


MATERIAL: copper
OPERATING TEMPERATURE: from -50 °C to +150 °C
SINGLE WIRE: Cu-ETP EN13602

Code	Section (mm²)	Section (AWG)	W1 (mm)	S1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	D1 (mm)	Rated current (ΔT = 30 °C) (A)	
60015	10	(8)	17	2	150	12	130	10	9	90	25/25
60020			17	2	200	12	180	10	9	90	25/25
60025			17	2	250	12	230	10	9	90	25/25
60115	16	(6)	17	2,5	150	12	130	10	9	120	25/25
60120			17	2,5	200	12	180	10	9	120	25/25
60125			17	2,5	250	12	230	10	9	120	25/25
60130			17	2,5	320	12	300	10	9	120	25/25
60135			17	2,5	350	12	330	10	9	120	25/25
60142			17	2,5	420	12	400	10	9	120	25/25
60157			17	2,5	570	12	550	10	9	120	25/25
60166			17	2,5	660	12	640	10	9	120	25/25
60215	25	(4)	22	3	150	12	130	10	9	120	25/25
60220			22	3	200	12	180	10	9	150	25/25
60225			22	3	250	12	230	10	9	150	25/25
60230			22	3	300	12	280	10	9	150	25/25

Different sizes are available on demand.

THREADED COPPER BUSBARS



MATERIAL: electrolytic copper

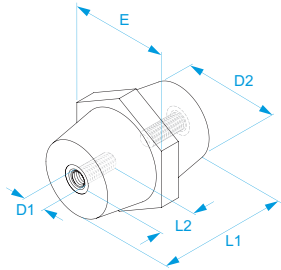
PROFILE: round edges

APPLICATIONS: power distribution, heavy duty power connections, earth/ground connections, circuit breaker, generator and power network conductors

Code	W1 (mm)	S1 (mm)	L1 (mm)	L2 (mm)	Thread	N. holes	Rated current (ΔT = 30 °C) (A)	Rated current (ΔT = 50 °C) (A)	
QB1221518	12	2	1000	18	M5	55	108	142	10/10
QB1241518		4	1000	18	M5	55	160	210	10/10
QB1242518		4	2000	18	M5	111	160	210	10/10
QB1251518		5	1000	18	M5	55	183	240	4/4
QB1551625	15	5	1000	25	M6	40	218	286	4/4
QB1552617		5	2000	17,5	M6	113	218	286	4/4
QB2051625	20	5	1000	25	M6	40	274	362	4/4
QB2052625		5	2000	25	M6	80	274	362	4/4
QB2052517		5	2000	17,5	M5	113	274	362	4/4
QB2011825		10	1000	25	M8	40	427	595	4/4
QB2541620	25	4	1000	20	M6	50	288	380	4/4
QB3052625	30	5	2000	25	M6	80	379	502	4/4
QB3011825		10	1000	25	M8	40	573	754	4/4
QB3012825		10	2000	25	M8	80	573	754	2/2
QB3251625	32	5	1000	25	M6	40	400	530	4/4

AVAILABLE ON REQUEST: make to order (dimensions and surface treatments)

POLYESTER INSULATORS (L.V.)



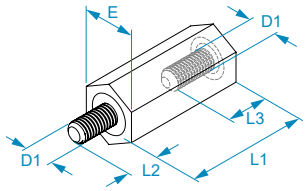
INSULATION MATERIAL: red polyester and fiberglass
INSERT MATERIAL: galvanized steel threaded according to ISO standards
INSULATION SELF-EXTINGUISHING: UL 94 V0
OPERATING TEMPERATURE: from -40 °C to +135 °C
APPLICATIONS: support of threaded and drilled copper bars

Code	L1 (mm)	D1	L2 (mm)	E wrench (mm)	D2 (mm)	Tightening torque (Nm)	AC Voltage (kV)	DC Voltage (kV)	Tensile strength (daN)	Bending strength (daN)	
QHEP01604	16	M4	3,5	14	11	1,5	0,6	0,8	80	25	50/50
QHEP02004	20	M4	5	18	14	2,5	0,8	1,1	182	65	25/25
QHEP02006		M6	5	18	14	5	0,8	1,1	195	75	25/25
QHEP02505	25	M5	7	21	16	5	1	1,4	350	92	20/20
QHEP02506		M6	7	25	22	6	1	1,4	540	190	20/20
QHEP03006	30	M6	9	32	24	6	1,2	1,6	532	154	10/10
QHEP03008		M8	9	32	25	15	1,2	1,6	796	240	10/10
QHEP03506	35	M6	12	32	26	6	1,4	1,9	620	244	10/10
QHEP03508		M8	12	32	26	15	1,4	1,9	670	250	10/10
QHEP03510		M10	12	32	26	20	1,4	1,9	805	190	10/10
QHEP04006	40	M6	12	38	30	6	1,6	2,2	870	280	10/10
QHEP04008		M8	12	39	31	20	1,6	2,2	860	340	10/10
QHEP04010		M10	12	38	30	25	1,6	2,2	1054	345	10/10
QHEP04506	45	M6	12	40	32	10	1,8	2,5	990	310	10/10
QHEP04508		M8	12	40	32	20	1,8	2,5	1100	345	10/10
QHEP04510		M10	12	40	32	30	1,8	2,5	1220	300	10/10
QHEP05006	50	M6	12	46	35	10	2	2,8	1120	300	10/10
QHEP05008		M8	17	46	35	20	2	2,8	1500	420	10/10
QHEP05010		M10	17	46	35	30	2	2,8	1550	500	10/10
QHEP05012		M12	17	46	35	50	2	2,8	1511	472	10/10
QHEP06008	60	M8	17	50	38	20	2,4	3,3	1200	253	4/4
QHEP06010		M10	17	50	38	30	2,4	3,3	1570	410	4/4
QHEP06012		M12	17	50	38	50	2,4	3,3	1640	520	4/4
QHEP07010	70	M10	22	55	41	30	2,8	3,9	1720	490	4/4
QHEP07012		M12	22	55	41	50	2,8	3,9	1800	500	4/4
QHEP07512	75	M12	22	53	42	50	3	4,2	1840	540	4/4

file n° E 514246

HALOGEN FREE

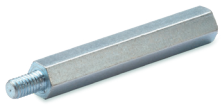
INSULATED SPACERS (L.V.)

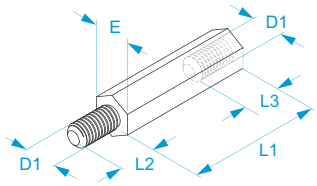


INSULATION MATERIAL: PBT black polyester
INSERT MATERIAL: galvanized steel male and female threaded according to ISO standards
INSULATION SELF-EXTINGUISHING: UL 94 V0
OPERATING TEMPERATURE: from -40 °C to +135 °C
APPLICATIONS: support for different applications such as electronic board protections

Code	L1 (mm)	D1	L2 (mm)	L3 (mm)	E wrench (mm)	Tightening torque (Nm)	AC Voltage (kV)	DC Voltage (kV)	
QSCP015M4	15	M4	7	8,5	9	1	0,5	0,7	100/100
QSCP020M4	20		7	8,5	9	1,5	0,6	0,8	100/100
QSCP025M4	25		7	8,5	9	1,5	0,8	1,1	50/50
QSCP030M4	30		9	8,5	9	1,5	1	1,4	50/50
QSCP040M4	40		9	7	9	1,5	1,4	1,9	50/50
QSCP055M4	55		9	7	9	1,5	1,8	2,5	50/50
QSCP060M4	60		9	7	9	1,5	1,8	2,5	50/50
QSCP090M4	90		9	7	9	1,5	1,8	2,5	50/50
QSCP015M5	15	M5	7	8,5	13	3,5	0,5	0,7	100/100
QSCP020M5	20		7	8,5	13	3,5	0,6	0,8	100/100
QSCP025M5	25		7	8,5	13	3,5	0,8	1,1	50/50
QSCP030M5	30		7	8,5	13	3,5	1	1,4	50/50
QSCP045M5	45		7	8,5	13	3,5	1,6	2,2	50/50
QSCP055M5	55		7	8,5	13	3,5	1,8	2,5	50/50
QSCP070M5	70		7	8,5	13	3,5	1,8	2,5	50/50
QSCP085M5	85		7	8,5	13	3,5	1,8	2,5	50/50
QSCP120M5	120		7	8,5	13	3,5	1,8	2,5	50/50
QSCP015M6	15	M6	7	8,5	13	4	0,5	0,7	100/100
QSCP020M6	20		7	8,5	13	4	0,6	0,8	100/100
QSCP025M6	25		7	8,5	13	4	0,8	1,1	50/50
QSCP030M6	30		7	8,5	13	4	1	1,4	50/50
QSCP045M6	45		7	8,5	13	4	1,6	2,2	50/50
QSCP060M6	60		7	8,5	13	4	2	2,5	50/50
QSCP070M6	70		7	8,5	13	4	1,8	2,5	50/50
QSCP120M6	120		7	8,5	13	4	1,8	2,5	50/50

UNINSULATED SPACERS

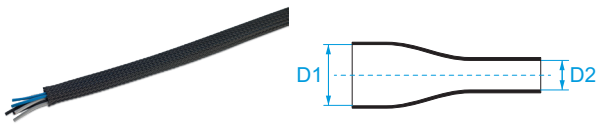




MATERIAL: galvanized steel male and female threaded
APPLICATIONS: support for plates, screens and profiles

Code	L1 (mm)	D1	L2 (mm)	L3 (mm)	E wrench (mm)	Tightening torque (Nm)	
QSMS015M4	15	M4	8	10	7	2,5	100/100
QSMS020M4	20		8	10	7	2,5	100/100
QSMS025M4	25		10	10	7	2,5	50/50
QSMS030M4	30		10	10	7	2,5	50/50
QSMS040M4	40		10	10	7	2,5	50/50
QSMS050M4	50		10	10	7	2,5	50/50
QSMS060M4	60		10	10	7	2,5	50/50
QSMS015M5	15	M5	8	10	8	5	100/100
QSMS020M5	20		8	10	8	5	100/100
QSMS025M5	25		10	10	8	5	50/50
QSMS030M5	30		10	10	8	5	50/50
QSMS040M5	40		10	10	8	5	50/50
QSMS050M5	50		10	10	8	5	50/50
QSMS060M5	60		10	10	8	5	50/50
QSMS080M5	80		10	10	8	5	25/25
QSMS015M6	15	M6	10	10	10	8	100/100
QSMS020M6	20		10	10	10	8	100/100
QSMS025M6	25		10	10	10	8	50/50
QSMS030M6	30		10	10	10	8	50/50
QSMS040M6	40		10	10	10	8	50/50
QSMS050M6	50		10	10	10	8	50/50
QSMS060M6	60		10	10	10	8	50/50
QSMS080M6	80		10	10	10	8	25/25

CABLE PROTECTION · EXPANDABLE CABLING SLEEVES · POLYESTER



MATERIAL: polyester
OPERATING TEMPERATURE: from -50°C to +125°C max
MELTING POINT: 240 ± 10°C
SHEATH SELF-EXTINGUISHING GRADE: VW-1 (UL 1581)
MATERIAL SELF-EXTINGUISHING GRADE: UL 94 V2

Code	Size (mm)	Length (m)	Color	D2 (Ø mm)	
GCP006MGR	6	100	Grey	3,0	1/1
GCP006MNE		100	Black		1/1
GCP008MGR	8	100	Grey	5,0	1/1
GCP008MNE		100	Black		1/1
GCP010MGR	10	100	Grey	7,0	1/1
GCP010MNE		100	Black		1/1
GCP015MGR	15	50	Grey	10,0	1/1
GCP015MNE		50	Black		1/1
GCP020MGR	20	50	Grey	14,0	1/1
GCP020MNE		50	Black		1/1
GCP030MGR	30	50	Grey	20,0	1/1
GCP030MNE		50	Black		1/1
GCP040MGR	40	50	Grey	30,0	1/1
GCP040MNE		50	Black		1/1

file n° E515258

FLAME RETARDANT

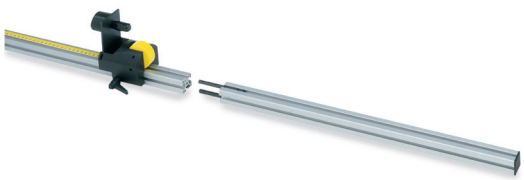
HALOGEN FREE

CUTTER AND PUNCHER · FOR DIN RAILS

Cutter and puncher for EN 50035, EN 50022, and EN 50045 rails. The tool is designed for extremely rapid, precise and safe cutting and punching of standardized support metal rails. It makes neat cuts without scraping or deforming the bar.
Punching is done by means of a separate operation and enables to make Ø 6.5 mm holes. The tool is supplied with a bar lock to set the cutting and punching length. This makes repeat operations easier.
Specific dies and guides for the standardised metal rails are available.
Additionally, a complete hydraulic kit is available; it allows the connection to a hydraulic pump.

Code	Description	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
2691	Cutter and puncher for DIN rails	1060	150	150	6	1225x220x220	SC

ACCESSORIES FOR CUTTER AND PUNCHER DIN RAILS: EXTENSION KIT



Bar holder extension kit for BM 2691.
The modular unit allows the increase of the cutting and punching length by multiples of 600 mm.
Adjustment scale in mm.

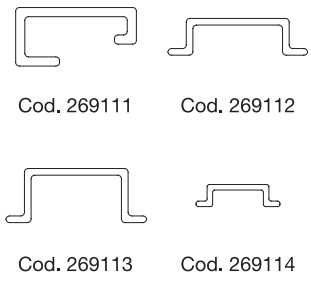
Code	Description	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
26913	Bar holder extension kit for BM 2691.	50	70	50	1	60x80x60	SC

ACCESSORIES FOR CUTTER AND PUNCHER DIN RAILS: HYDRAULIC KIT

Complete hydraulic kit for BM 2691

Code	Description	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
26914	Complete hydraulic kit for BM 2691. It replaces the hand lever and allows the connection to a hydraulic pump.	600	30	30	1	630x30x30	SC

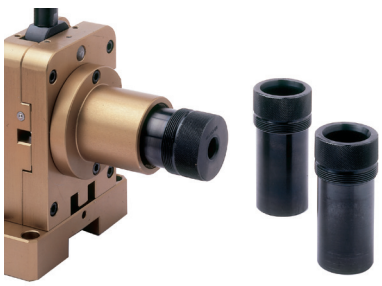
ACCESORIES FOR CUTTER AND PUNCHER DIN RAILS: DIES



Die pair for BM 2691.
SERIES: G1
COMPATIBILITY: BM 2691

Code	Rail type height (mm)	Terminal type
269111		for EN 50035 rails
269112	7.5	for EN 50022 rails
269113	15	for EN 50022 rails
269114		for EN 50045 rails

ACCESORIES FOR CUTTER AND PUNCHER DIN RAILS: GUIDES



Code	Description
26912	Guide support
269121	Guide for EN 50035 rails
269122	Guide for EN 50022 rails
269123	Guide for EN 50045 rails

DBMK534
0.25-6mm²
AWG 22-10

EQUIPMENT

CRIMPING TOOLS pag. 226

CABLE CUTTERS AND WIRE ROPE CUTTERS pag. 267

DRILLERS pag. 274

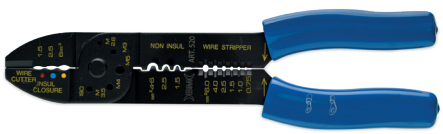
PUMPS AND HEADSTOCKS pag. 280

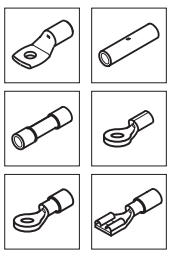
CRIMPING TOOL - SERIES HB

HB

Essentiality and simplicity are the key words of the HB pliers that allow to crimp terminals whenever you need.
The structure is molded in tempered carbon steel with a burnishing surface treatment and the handles are insulated in plastic material.

CRIMPING TOOL · STANDARD · FOR INSULATED TERMINALS · FOR UNISULATED TERMINALS · 0.25÷6



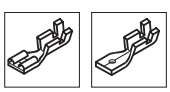


Crimping tool for hobbies in carbon steel tempered with burnishing surface treatment, equipped with cable cutters, strippers, crew cutters and insulated handles in plastic material.

Code	Section (mm²)	Section (AWG)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
520	0.25 ÷ 6	(22-10)	235	65	17	0,24	290x100x20	SC

HB

CRIMPING TOOL · STANDARD · FOR BRASS OPEN TERMINALS · 0.5÷6

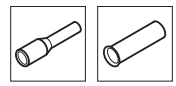


Crimping tool for hobbies in carbon steel tempered with burnishing surface treatment, equipped with cable cutters, strippers, crew cutters and insulated handles in plastic material.

Code	Field of use	Section (mm²)	Section (AWG)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
530	for uninsulated open barrel brass terminals	0.5 ÷ 6	(20-10)	220	60	15	0,3	350x100x20	SC

HB

CRIMPING TOOL · STANDARD · FOR END-SLEEVES · 0.25÷6

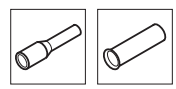


Crimping tool in carbon steel tempered with burnishing surface treatment. Insulated handles in plastic material.

Code	Field of use	Section (mm²)	Section (AWG)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
540	for end-sleeve terminals	0.25 ÷ 2.5	(22-14)	150	70	20	0,18	215x120x25	SC

HB

CRIMPING TOOL · STANDARD · FOR END-SLEEVES · 0.5÷16

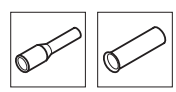


Crimping tool in carbon steel tempered with burnishing surface treatment. Insulated handles in plastic material.

Code	Field of use	Section (mm²)	Section (AWG)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
541	for end-sleeve terminals	0.5 ÷ 16	(20-6)	225	53	21	0,25	290x120x25	SC

HB

CRIMPING TOOL · STANDARD · FOR END-SLEEVES · 10÷35



Crimping tool in carbon steel tempered with burnishing surface treatment. Insulated handles in plastic material.

Code	Field of use	Section (mm²)	Section (AWG)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
542	for end-sleeve terminals	10 ÷ 35	(8-2)	225	53	21	0,25	290x120x25	SC

HB

CRIMPING TOOL - SERIES CRIM

CRIM

Tempered steel dies with a mechanical strength of 1000 N/mm² that guarantee a high degree of resistance to wear and a very high precision in couplings.

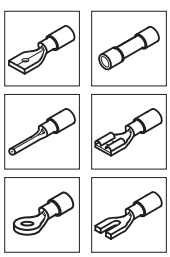
Ergonomic handles in bi-component plastic.

Cold-pressed steel body with electrophoresis coating.

Pin for adjusting the crimping force.

Automatic end-of-work release device to guarantee the crimping quality and to open the tool in case of a wrong manoeuvre.

CRIMPING TOOL · AUTOMATIC · FOR INSULATED TERMINALS · 0.25÷6



Code	Field of use	Section (mm²)	Section (AWG)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
534	for insulated terminals	0.25 ÷ 6	(22-10)	220	80	20	0,6	250x85x25	SC

CRIM

CRIMPING TOOL · AUTOMATIC · FOR END-SLEEVES · 0.5÷4

Code	Field of use	Section (mm²)	Section (AWG)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
537	for end-sleeve terminals	0.5 ÷ 4	(20-12)	220	80	20	0,6	250x85x25	SC

CRIM

CRIMPING TOOL · AUTOMATIC · FOR END-SLEEVES · 6÷16

Code	Field of use	Section (mm²)	Section (AWG)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
539	for end-sleeve terminals	6 ÷ 16	(10-6)	220	80	20	0,6	250x85x25	SC

CRIM

CRIMPING TOOL · AUTOMATIC · FOR END-SLEEVES · 10÷35

Code	Field of use	Section (mm²)	Section (AWG)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
533	for end-sleeve terminals	10 ÷ 35	(8-2)	220	80	20	0,6	250x85x25	SC

CRIM

CRIMPING TOOL · AUTOMATIC · FOR BRASS OPEN TERMINALS · 0.5÷6

Code	Field of use	Section (mm²)	Section (AWG)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
531	for uninsulated open barrel brass terminals	0.5 ÷ 6	(20-10)	220	80	20	0,6	250x85x25	SC

CRIM

CRIMPING TOOL · AUTOMATIC · FOR QUICK CONNECT FEMALE FLAG TERMINALS · 0.5÷1

Code	Field of use	Section (mm²)	Section (AWG)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
5311	for quick-connect female flag uninsulated terminals	0.5 ÷ 1	(20-18)	220	80	20	0,6	250x85x25	SC

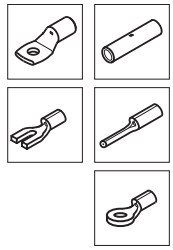
CRIM

CRIMPING TOOL · AUTOMATIC · FOR QUICK CONNECT FEMALE FLAG TERMINALS · 1÷2.5

Code	Field of use	Section (mm²)	Section (AWG)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
5312	for quick-connect female flag uninsulated terminals	1 ÷ 2.5	(18-14)	220	80	20	0,6	250x85x25	SC

CRIM

CRIMPING TOOL · AUTOMATIC · FOR UNINSULATED TERMINALS · 0.5÷10



Code	Field of use	Section (mm²)	Section (AWG)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
535	for uninsulated copper terminals	0.5 ÷ 10	(20-8)	220	80	20	0,6	250x85x25	SC

CRIM

CRIMPING TOOL · AUTOMATIC · FOR COAXIAL CONNECTORS RG 58-59

Code	Field of use	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
543	for coaxial connectors RG 58-59	220	80	20	0,6	250x85x25	SC

CRIM

CRIMPING TOOL · AUTOMATIC · FOR QUICK CONNECT INSULATED FEMALE FLAG TERMINALS · 0.5÷2.5

Code	Field of use	Section (mm²)	Section (AWG)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
532	for quick-connect female flag insulated terminals	0.5 ÷ 2.5	(20-14)	220	80	20	0,6	250x85x25	SC

CRIM

KIT · AUTOMATIC CRIMPING TOOL + 5 DIES

Assortment kit in a plastic case complete with BM 5340 crimping tool and 5 interchangeable dies.

Code	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
5305	220	80	20	0,6	290x210x50	VA

Componente	Description
5340	Crimping tool with interchangeable dies
534D	Die for insulated terminal from 0.25 to 6 mm² (AW 22-10)
537D	Die for end-sleeve terminals from 0.5 to 4 mm² (AWG 22-12)
539D	Die for end-sleeve terminals from 6 to 16 mm² (AWG 10-6)
531D	Die for open barrel brass terminals from 0.5 to 6 mm² (AWG 20-10)
535D	Die for uninsulated copper terminals from 0.5 to 10 mm² (AWG 20-8)

CRIM

Devices that automatically locks
the dies without the need of any tool.

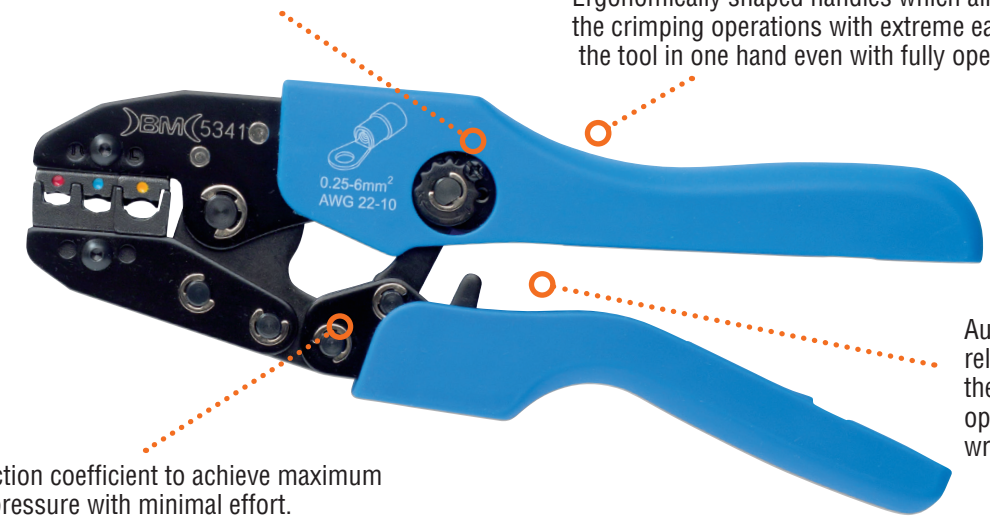
Easy and tool-less
insertion of the dies.

CRIMPING TOOL - SERIES CRIMDEM

CRIMDEM

Pin for adjusting the crimping force.

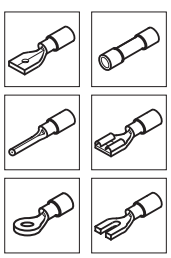
Ergonomically shaped handles which allow users to perform the crimping operations with extreme ease as well as to kip the tool in one hand even with fully open clamp.



Automatic end-of-work release device to guarantee the crimping quality and to open the tool in case of a wrong manoeuvre.

High reduction coefficient to achieve maximum crimping pressure with minimal effort.

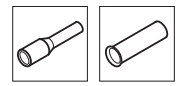
CRIMPING TOOL · WITH REDUCTION · FOR INSULATED TERMINALS · 0.25÷6



Code	Field of use	Section (mm²)	Section (AWG)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
5341	for insulated terminals	0.25 ÷ 6	(22-10)	225	80	20	0,54	245x85x25	SC

CRIMDEM

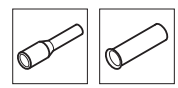
CRIMPING TOOL · WITH REDUCTION · FOR END-SLEEVES · 0.5÷4



Code	Field of use	Section (mm²)	Section (AWG)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
5371	for end-sleeve terminals	0.5 ÷ 4	(20-12)	225	80	20	0,54	245x85x25	SC

CRIMDEM

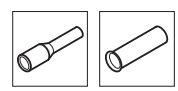
CRIMPING TOOL · WITH REDUCTION · FOR END-SLEEVES · 6÷16



Code	Field of use	Section (mm²)	Section (AWG)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
5391	for end-sleeve terminals	6 ÷ 16	(10-6)	225	80	20	0,54	245x85x25	SC

CRIMDEM

CRIMPING TOOL · WITH REDUCTION · FOR END-SLEEVES · 25÷50



Code	Field of use	Section (mm²)	Section (AWG)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
5331	for end-sleeve terminals	25 ÷ 50	(4-1/0)	225	80	20	0,54	245x85x25	SC

CRIMDEM

CRIMPING TOOL · WITH REDUCTION · FOR BRASS OPEN TERMINALS · 0.5÷6

Code	Field of use	Section (mm²)	Section (AWG)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
5313	for uninsulated open barrel brass terminals	0.5 ÷ 6	(20-10)	225	80	20	0,54	245x85x25	SC

CRIMDEM

CRIMPING TOOL · WITH REDUCTION · FOR QUICK CONNECT FEMALE FLAG TERMINALS · 0.5÷1

Code	Field of use	Section (mm²)	Section (AWG)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
5314	for quick-connect female flag uninsulated terminals	0.5 ÷ 1	(20-18)	225	80	20	0,54	245x85x25	SC

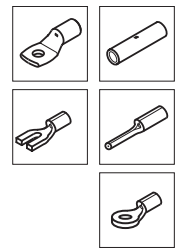
CRIMDEM

CRIMPING TOOL · WITH REDUCTION · FOR QUICK CONNECT FEMALE FLAG TERMINALS · 1÷2.5

Code	Field of use	Section (mm²)	Section (AWG)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
5315	for quick-connect female flag uninsulated terminals	1 ÷ 2.5	(18-14)	225	80	20	0,54	245x85x25	SC

CRIMDEM

CRIMPING TOOL · WITH REDUCTION · FOR UNINSULATED TERMINALS · 0.5÷10



Code	Field of use	Section (mm²)	Section (AWG)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
5351	for uninsulated terminals	0.5 ÷ 10	(20-8)	225	80	20	0,54	245x85x25	SC

CRIMDEM

CRIMPING TOOL · WITH REDUCTION · FOR COAXIAL CONNECTORS RG 58-59

Code	Field of use	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
5431	for coaxial connectors RG 58-59	225	80	20	0,54	245x85x25	SC

CRIMDEM

KIT · CRIMPING TOOL WITH REDUCTION AND DIES

Assortment kit in a plastic case complete with BM 5341 crimping tool and 4 interchangeble dies.

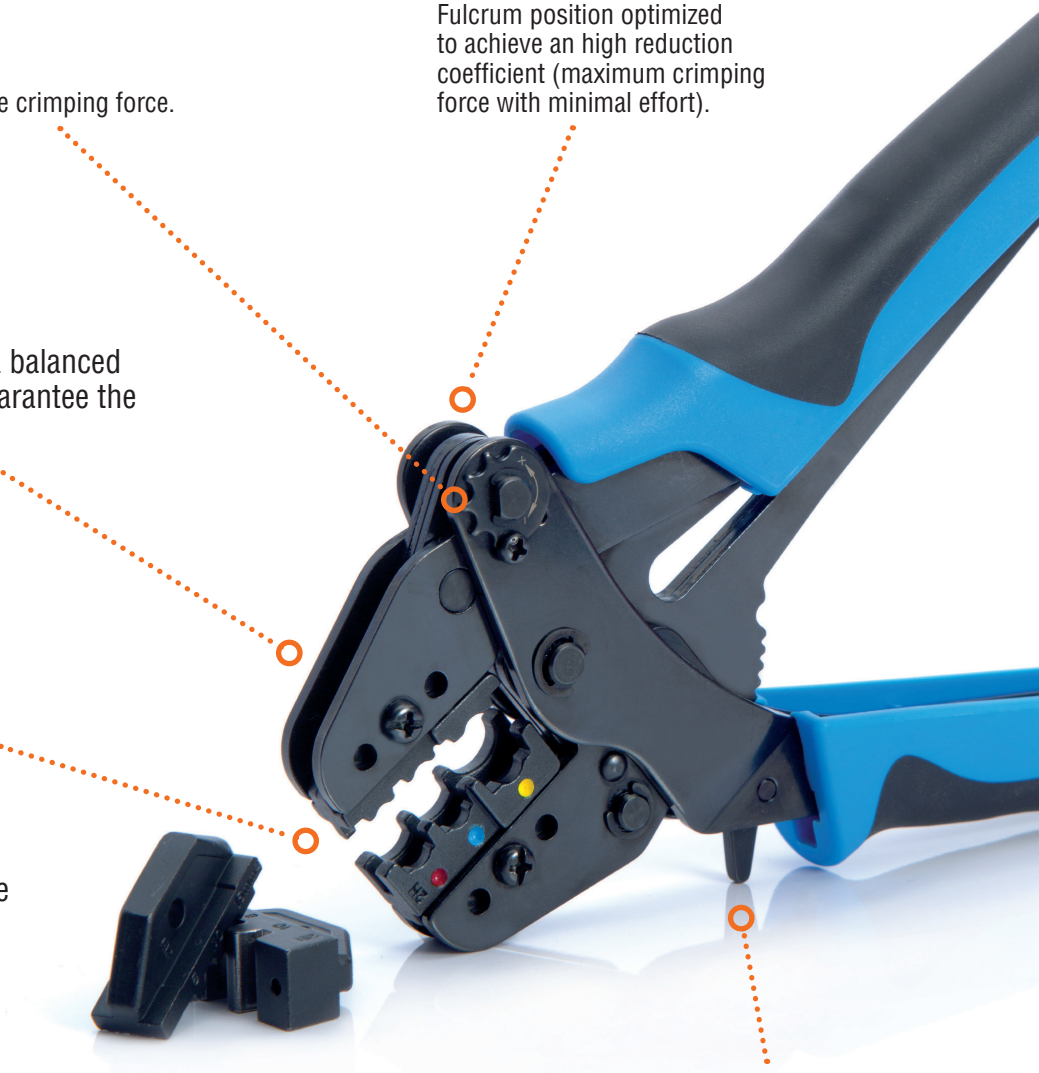
Code	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
5345	220	80	20	0,6	290x210x50	VA

Componente	Description
5341	Crimping tool with reduction for insulated terminals from 0.25 to 6 mm² (AWG 22-10)
537D	Die for end-sleeve terminals from 0.5 to 4 mm² (AWG 22-12)
539D	Die for end-sleeve terminals from 6 to 16 mm² (AWG 10-6)
531D	Die for open barrel brass terminals from 0.5 to 6 mm² (AWG 20-10)
535D	Die for uninsulated copper terminals from 0.5 to 10 mm² (AWG 20-8)

CRIMDEM

CRIMPING TOOLS - SERIES CRIMPAR

CRIMPAR



ONE CRIMPING TOOL

FOR ALL DIES YOU NEED!

100% FLEXIBILITY, 100% FUNCTIONALITY, 100% EFFICIENCY

CRIMPING TOOL · CRIMPAR · WITHOUT DIES

Code	Field of use	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
53P000	crimping tool for interchangeable dies	220	75	27	0,6	240x85x28	SC

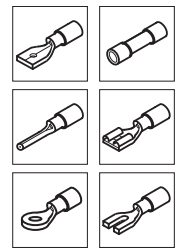
CRIMPAR

DIES · SERIES 53 · FOR CRIMPAR 53P000

Code	Compatible positioner	Terminal type	Section (mm²)	Section (AWG)
53M02H		dies for insulated terminals	0.5 ÷ 6	(20-10)
53M02E		die for end-sleeve terminals	0.5 ÷ 4	(20-12)
53M2E1		die for end-sleeve terminals	6 ÷ 16	(10-6)
53M5D2		die for end-sleeve terminals	16 ÷ 35	(6-2)
53M5D1		die for end-sleeve terminals die for end-sleeve terminals	25 50	(4) (1/0)
53M2E4		die for end-sleeve double cable terminals	0.5 ÷ 6	(20-10)
53M2E5		die for end-sleeve double cable terminals	10 ÷ 16	(8-6)
53M5N2		die for uninsulated copper terminals	0.75 ÷ 10	(8)
53M5N1		die for uninsulated copper terminals	10 ÷ 25	(8-4)
53M03C		die for coaxial connectors RG 58-59-62-6		
53M2C2		die for connectors M620 series and positioner	0.5 ÷ 2.5	(20-14)
53M02F		die for quick-connect female flag insulated terminals	0.5 ÷ 2.5	(20-14)
53MMC4		die for MC4 solar connectors	2.5 ÷ 6	(14-10)
53M02C	53L02C	die for uninsulated open barrel brass terminals	0.5 ÷ 6	(20-10)
53L02C		Positioners for 53M02C die (for uninsulated male and female quick connectors)		
53M13C		die for close end connectors	0.25 ÷ 6	(22-10)

CRIMPAR SERIE53

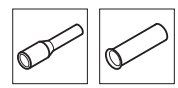
CRIMPING TOOL · CRIMPAR · FOR INSULATED TERMINALS · 0.5÷6

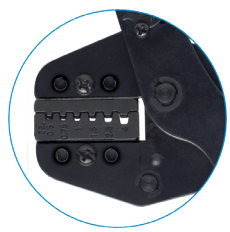


Code	Field of use	Section (mm²)	Section (AWG)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
53P02H	for insulated terminals	0.5 ÷ 6	(20-10)	220	75	27	0,6	240x85x28	SC

CRIMPAR

CRIMPING TOOL · CRIMPAR · FOR END-SLEEVS · 0.5÷4

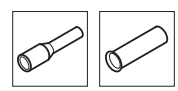


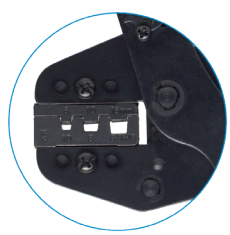


Code	Field of use	Section (mm²)	Section (AWG)	Length (mm)	Width (mm)	Thickness (mm)	Pack size LxWxH (mm)	
53P02E	for end-sleeve terminals	0.5 ÷ 4	(20-12)	220	75	27	240x85x28	SC

CRIMPAR

CRIMPING TOOL · CRIMPAR · FOR END-SLEEVS · 6÷16

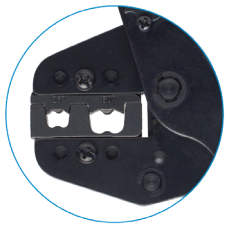


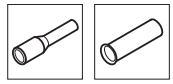


Code	Field of use	Section (mm²)	Section (AWG)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
53P2E1	for end-sleeve terminals	6 ÷ 16	(10-6)	220	75	27	0,6	240x85x28	SC

CRIMPAR

CRIMPING TOOL · CRIMPAR · FOR END-SLEEVS · 25-50

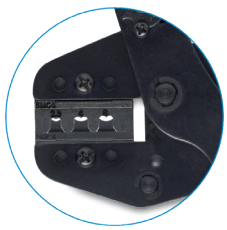


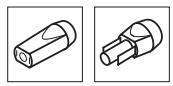


Code	Field of use	Section (mm²)	Section (AWG)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
53P5D1	for end-sleeve terminals	25 - 50	4-1	220	75	27	0,6	240x85x28	SC

CRIMPAR

CRIMPING TOOL · CRIMPAR · FOR MC4 SOLAR CONNECTORS · 2.5÷6





Code	Field of use	Section (mm²)	Section (AWG)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
53PMC4	for photovoltaic MC4 connectors	2.5 ÷ 6	(14-10)	220	75	27	0,6	240x85x28	SC

CRIMPAR

ACCESSORIES FOR CRIMPAR CRIMPING TOOL · EMPTY CASE + SCREWS

Empty case for CRIMPAR crimping tool and 5 dies + screws for quick replacement of dies

Code	Length (mm)	Width (mm)	Thickness (mm)	Pack size LxWxH (mm)	
53K000	300	215	65	305x220x70	VA

CRIMPAR

KIT · CRIMPAR CRIMPING TOOL + 5 DIES

Code	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
53KPBF	220	75	27	0,6	305x220x70	VA

Componente	Description
53P000	Crimping tool with interchangeable dies
53M02H	Die for insulated terminal from 0.5 to 6 mm² (AW 20-10)
53M02E	Die for end-sleeve terminals from 0.5 to 4 mm² (AWG 22-12)
53M2E1	Die for end-sleeve terminals from 6 to 16 mm² (AWG 10-6)
53M5N2	Die for uninsulated copper terminals from 0.75 to 10 mm² (AWG 18-8)
53M02C	Die for open barrel brass terminals from 0.5 to 6 mm² (AWG 20-10)

CRIMPAR

CRIMPING TOOLS - SERIES RJ

RJ

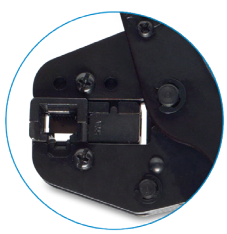
CRIMPING TOOL · FOR RJ CONNECTORS

Safety device with mechanical end-of-work release ensuring correct crimping.
Possibility of cutting and stripping the cable.
Ergonomic handle in bi-component material.

Code	Field of use	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
549	for RJ 11-12-14-22-45 connectors	230	100	20	1	250x85x25	SC

RJ

CRIMPING TOOL · CRIMPAR · FOR RJ45 CONNECTORS



The dies of this crimping tool are not interchangeable with dies CRIMPAR, SERIES 53

Code	Field of use	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
53P5YA	for pass-through and standard 8P8C modular connectors RJ45	220	75	27	0,6	240x85x28	SC

RJ CRIMPAR

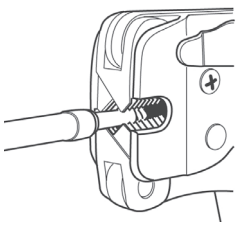
CRIMPING TOOLS - SERIES CRIMQ

CRIMQ

Adjustment lever to increase crimping range from 10 mm² to 16 mm²

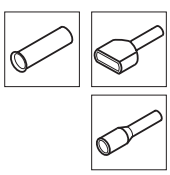
Ergonomic handles in bi-component plastic.

Front insertion for end-sleeve terminals, useful in narrow places such as electric panels. Square crimping.



Automatic end-of-work release device to guarantee the crimping quality and to open the tool in case of a wrong manoeuvre.

CRIMPING TOOL · SQUARE CRIMPING · FRONT INSERTION



Code	Field of use	Section (mm²)	Section (AWG)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
5382	for single and double cable end-sleeve terminals	1x(0.08÷16), 2x(0.5÷6)	1x(28÷5), 2x(20÷10)	200	70	20	0,5	210x75x25	SC

CRIMQ

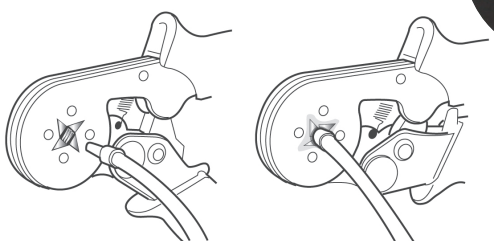
CRIMPING TOOLS - SERIES CRIMQ

CRIMQ

Lateral insertion insertion for end-sleeve terminal.
Square crimping.

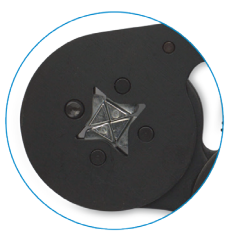
Ergonomic handles in
bi-component plastic.

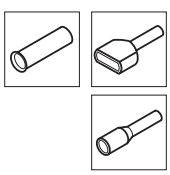
Adjustment lever to increase
crimping range from 10 mm² to 16 mm²



Automatic end-of-work release device to guarantee the crimping quality
and to open the tool in case of a wrong manoeuvre.

CRIMPING TOOL · SQUARE CRIMPING · LATERAL INSERTION





Code	Field of use	Section (mm²)	Section (AWG)	Crimping length (mm)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
53816	for single and double cable end-sleeve terminals	1x(0.08÷16), 2x(0.5÷6)	1x(28÷5), 2x(20÷10)	13	200	70	20	0,5	210x75x25	SC

CRIMQ

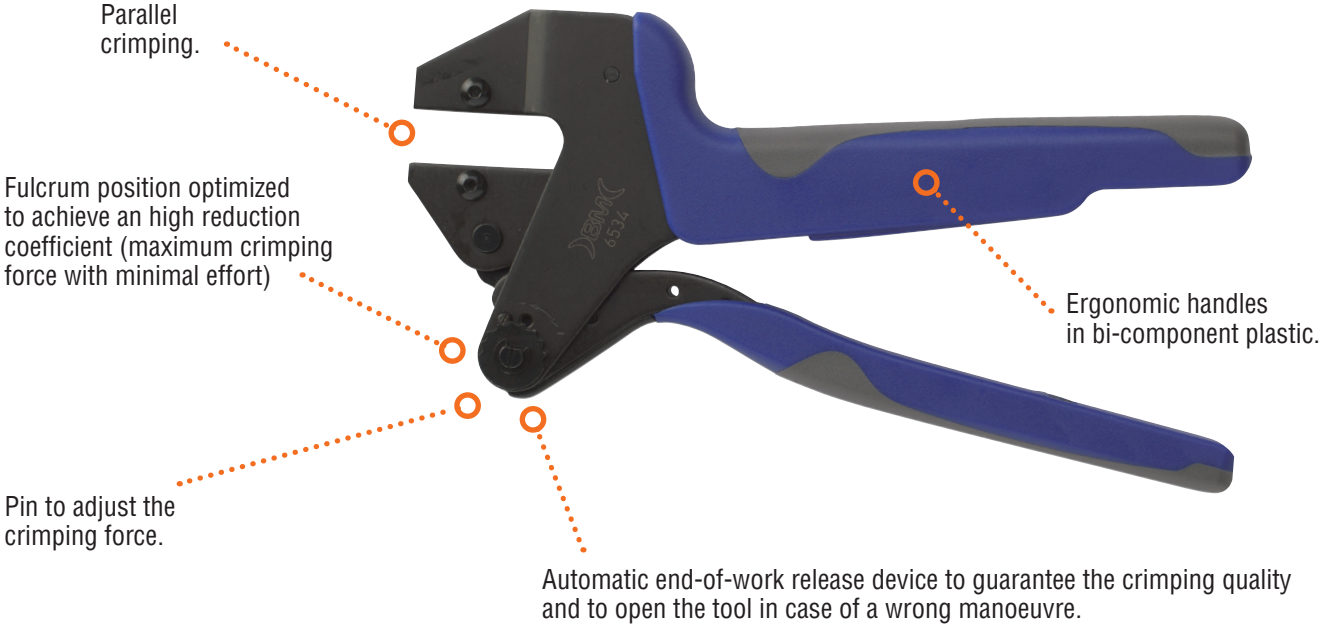
CRIMPING TOOL FOR END-SLEEVE TERMINALS IN A STRAP

CRIMPING TOOL · FOR END-SLEEVE TERMINALS IN A STRAP

A perfect synthesis of functionality and ergonomics for a quick and precise clamping of end-sleeve terminals in a strap.
Complete with four loaders for sections from 0.5 to 2.5 mm² for easy and fast swap.
Multifunctional crimping tool which enables users to cut, strip, roll the flexible cable and crimp the terminal.

Code	Field of use	Section (mm²)	Section (AWG)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
5375	for end-sleeve terminals	0.5 ÷ 2.5	(20-14)	220	80	20	0,7	290x210x50	SC

PARALLEL CRIMPING TOOLS



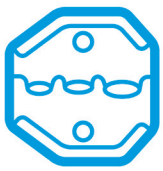
CRIMPING TOOL · PARALLEL CRIMPING

With plastic case

Code	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
6534	200	100	20	1	260x230x50	VA

SERIE6

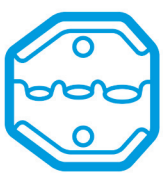
DIES · SERIES 6 · FOR BM 6534



Code	Compatible positioner	Terminal type	Section (mm²)	Section (AWG)
634D		dies for insulated terminals	0.5 ÷ 6	(20-10)
635D		die for uninsulated copper terminals	0.5 ÷ 10	(20-8)
636D		dies for insulated terminals	10 ÷ 16	(8-6)
631D	65341	die for uninsulated open barrel brass terminals	0.1 ÷ 2.5	(27-14)
65341		positioner for die 631D for quick-connect terminals female		
6311D	65342	die for uninsulated open barrel brass terminals	0.5 ÷ 6	(20-10)
65342		positioner for die 6311D for quick-connect terminals female		
6321D		die for uninsulated open barrel brass terminals for uninsulated open flag brass terminals	0.5 ÷ 2.5 0.5 ÷ 1	(20-14) (20-18)
6322D		die for uninsulated open barrel brass terminals for uninsulated open flag brass terminals	1.5 ÷ 6 1.5 ÷ 2.5	(16-10) (16-14)

SERIE6

DIES · SERIES 6 · FOR BM 6534 · PHOTOVOLTAIC CONNECTORS



Code	Compatible positioner	Terminal type
6313D		die for MC3 connectors and positioner
6314D	6315D	die for MC4 connectors
6315D		positioner for die 6314D for MC4 connectors
6316D	6317D	die for Tyco connectors
6317D		positioner for die 6316D for Tyco connectors

SERIE6

CRIMPING TOOLS WITH LONG HANDLES

CRIMPING TOOL · WITH LONG HANDLES · FOR UNINSULATED DIN TERMINALS · 1÷10

Dies made of micro-casted steel.
Cold-pressed steel levers.
Handles insulated with anti-slip plastic.
Equipped with safety device and end-of-work release.

Code	Field of use	Section (mm²)	Section (AWG)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
524	for uninsulated DIN 46235, 46234, 46267/1 terminals	1 ÷ 10	(18-8)	250	90	20	0,5	330x110x25	SC

CRIMPING TOOL · WITH LONG HANDLES · FOR UNINSULATED DIN TERMINALS · 1÷16

Dies made of micro-casted steel.
Cold-pressed steel levers.
Handles insulated with anti-slip plastic.
Equipped with safety device and end-of-work release.

Code	Field of use	Section (mm²)	Section (AWG)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
525	for uninsulated DIN 46235, 46234, 46267/1 terminals	1 ÷ 16	(18-6)	280	90	20	0,52	330x110x25	SC

CRIMPING TOOL · WITH LONG HANDLES · FOR END CONNECTORS AND THERMO-SHRINKABLE INSULATED BUTT CONNECTORS

Dies made of micro-casted steel.
Cold-pressed steel levers.
Handles insulated with anti-slip plastic.
Equipped with safety device and end-of-work release.

Code	Field of use	Section (mm²)	Section (AWG)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
528	for end connectors and thermo-shrinkable insulated butt connectors	0.5 ÷ 6	(20-10)	270	95	20	0,52	280x100x25	SC

CRIMPING TOOL · WITH LONG HANDLES · FOR UNINSULATED TERMINALS · 10÷35

Dies made of micro-casted steel.
Cold-pressed steel levers.
Handles insulated with anti-slip plastic.

Code	Field of use	Section (mm²)	Section (AWG)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
526	for uninsulated terminals	10 ÷ 35	(8-2)	350	110	25	0,86	395x135x30	SC

CRIMPING TOOL · WITH LONG HANDLES · FOR END-SLEEVES · 25÷50

Dies made of micro-casted steel.
Cold-pressed steel levers.
Handles insulated with anti-slip plastic.
Equipped with safety device and end-of-work release.

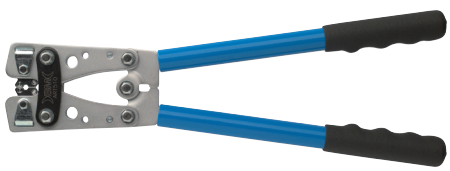
Code	Field of use	Section (mm²)	Section (AWG)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
527	for end-sleeve terminals	25 ÷ 50	(4-1/0)	320	95	20	0,7	300x100x25	SC

CRIMPING TOOL · WITH LONG HANDLES · FOR UNINSULATED TERMINALS · 10÷120

Entirely made of steel with epoxy powder surface coating, which guarantees a high degree of corrosion resistance.
Handles insulated by means of a bath in plastic material.
Easy to use, with adjustable die for deep crimping of uninsulated terminals.

Code	Field of use	Section (mm²)	Section (AWG)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
523	for uninsulated terminals	10 ÷ 120	(8-4/0)	570	100	35	3,2	575x120x40	SC

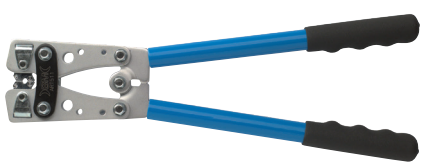
CRIMPING TOOL · WITH LONG HANDLES · FOR UNINSULATED TERMINALS · 6÷50



Made of cold pressed steel.
Handles insulated with anti-slip plastic material.
Revolving dies with positioning lock.
Hexagonal crimping.

Code	Field of use	Section (mm²)	Section (AWG)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
510	for uninsulated terminals	6 ÷ 50	(10-1/0)	390	130	35	1,6	400x140x140	SC

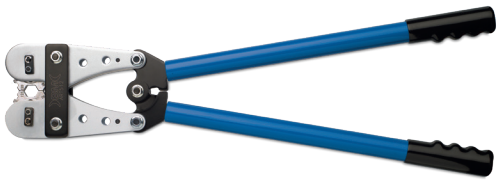
CRIMPING TOOL · WITH LONG HANDLES · FOR UNINSULATED DIN TERMINALS · 6÷50



Made of cold pressed steel.
Handles insulated with anti-slip plastic material.
Revolving dies with positioning lock.
Hexagonal crimping.

Code	Field of use	Section (mm²)	Section (AWG)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
511	for uninsulated DIN 46235, 46267/1 terminals	6 ÷ 50	(10-1/0)	390	130	35	1,6	400x140x140	SC

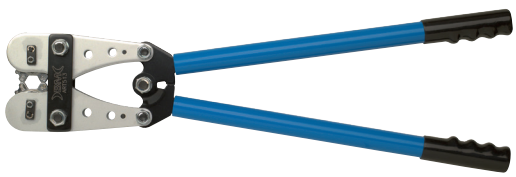
CRIMPING TOOL · WITH LONG HANDLES · FOR UNINSULATED TERMINALS · 10÷120



Made of cold pressed steel.
Handles insulated with anti-slip plastic material.
Revolving dies with positioning lock.
Hexagonal crimping

Code	Field of use	Section (mm²)	Section (AWG)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
512	for uninsulated terminals	10 ÷ 120	(8-4/0)	610	200	30	4	630x200x30	SC

CRIMPING TOOL · WITH LONG HANDLES · FOR UNINSULATED DIN TERMINALS · 10÷120



Made of cold pressed steel.
Handles insulated with anti-slip plastic material.
Revolving dies with positioning lock.
Hexagonal crimping.

Code	Field of use	Section (mm²)	Section (AWG)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
513	for uninsulated DIN 46235, 46267/1 terminals	10 ÷ 120	(8-4/0)	610	190	30	4,5	640x200x60	SC

CRIMPING TOOL · WITH LONG HANDLES · SERIES 82

DIES: 82 series

FIELD OF USE: terminals
- uninsulated from 10 to 150 mm2 (180 mm2 for DIN)
- uninsulated class 5 and DIN from 10 to 120 mm2
- medium voltage from 25 to 35 mm2
- aluminum from 16 to 150 mm2
- bimetallic from 16 to 150 mm2
- bimetallic DIN from 16 to 150 mm2
- insulated from 10 to 95 mm2
- C shunt from 10 to 35 mm2
- end-sleeve from 50 to 150 mm²

with metallic carrying case (dies not included)

Code	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
582	780	170	50	5	805x22x100 (V)	VA

SERIE82

HYDRAULIC CRIMPING TOOLS

CRIMPING TOOL · HYDRAULIC · MANUAL · 50KN · DIES SERIES 82

CRIMPING FORCE AT DIE LEVEL: 50 kN

DIES: 82 series

FIELD OF USE: terminals
- uninsulated from 10 to 240 mm² (185 mm² for DIN)
- uninsulated class 6 and DIN from 10 to 185 mm²
- medium voltage from 25 to 150 mm²
- aluminum from 16 to 150 mm²
- bimetallic from 16 to 150 mm²
- bimetallic DIN from 16 to 150 mm²
- insulated from 10 to 95 mm²
- C shunt from 10 to 35 mm²
- end-sleeve from 50 to 150 mm²

- lateral snap opening for quick and easy die positioning
- 180° swivel head for easy crimping in narrow places
- two pistons advancement speeds: one for quickly matching die terminal, the other for crimping
- automatic end-of-work release device to guarantee the crimping quality
- release lever device to open the tool at the end of operation and in case of a wrong maneuver

Code	Description	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
1823P	kit including: • 50 kN press • carrying case	380	140	70	2	450x280x80	VA
1823A1	kit including: • 50 kN press • die set for uninsulated terminals from 10 to 150 mm² • die set for C shunts from 16 to 35 mm² • carrying case	380	140	70	2	450x280x80	VA
1823A2	kit including: • 50 kN press • die set for uninsulated terminals from 10 to 185 mm² • carrying case	380	140	70	2	450x280x80	VA
1823A3	kit including: • 50 kN press • die set for uninsulated terminals from 10 to 240 mm² • carrying case	380	140	70	2	450x280x80	VA
1823A4	kit including: • 50 kN press • die set for uninsulated DIN terminals (DIN 46235, 46234, 46267/1) from 10 to 185 mm² • carrying case	380	140	70	2	450x280x80	VA

SERIE82

CRIMPING TOOL · HYDRAULIC · MANUAL · 60KN · DIES SERIES 83

CRIMPING FORCE AT DIE LEVEL: 60 kN

DIES: 83 series

FIELD OF USE: terminals
- uninsulated from 10 to 300 mm²
- uninsulated class 6 from 10 to 185 mm²
- DIN standard from 10 to 240 mm²
- NFC standard from 4 to 240 mm²
- medium voltage from 25 to 300 mm²
- aluminum from 16 to 185 mm²
- bimetallic from 16 to 150 mm²
- bimetallic DIN from 16 to 185 mm²
- insulated from 10 to 95 mm²
- C shunt from 10 to 95 mm²
- end-sleeve from 50 to 150 mm²

- lateral snap opening for quick and easy die positioning
- 180° swivel head for easy crimping in narrow places
- two pistons advancement speeds: one for quickly matching die and terminal, the other for crimping
- automatic end-of-work release device to guarantee the crimping quality
- release lever device to open the tool at the end of operation and in case of a wrong maneuver

Code	Description	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
1833	60 kN hand hydraulic press with carrying case	410	140	70	3,1	450x280x80	VA
1833A1	kit including • 60 kN press • die set for uninsulated terminals from 10 to 240 mm² • die set for C shunts from 16 to 95 mm² • carrying case	410	140	70	3,1	450x280x80	VA

SERIE83

HYDRAULIC · MANUAL · 120 kN · DIES SERIES 84

CRIMPING FORCE AT DIE LEVEL: 120 kN

DIES: 84 series

FIELD OF USE: terminals
- uninsulated from 10 to 400 mm² (300 mm² for DIN)
- uninsulated class 6 from 10 to 185 mm²
- medium voltage from 25 to 400 mm²
- aluminum from 16 to 240 mm²
- bimetallic from 16 to 300 mm²
- bimetallic DIN from 16 to 300 mm²
- insulated from 10 to 240 mm²
- C shunt from 10 to 150 mm²
- end-sleeve from 50 to 150 mm²

- "C" opening for easy joint crimping (the maximum conductor section depends on cable insulation thickness)
- bigger "C" opening in 184PL version to crimp big section joints
- 180° swivel head for easy crimping in narrow places
- two piston advancement speeds: one for quickly matching die and terminal, the other for crimping
- automatic end-of-work release device to guarantee crimping quality
- release device activated by a rotation of the handle to open the tool at the end of operation and in case of a wrong manoeuvre

Code	Description	Max "C" opening (mm)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
184P	120 kN press with carrying case	30	610	210	72	6,3	730x250x110	VA
184PL	120 kN press with carrying case	42	640	210	77	8,2	730x250x110	VA

SERIE84

CRIMPING TOOL · HYDRAULIC · MANUAL · 130KN · DIES SERIES 86, SERIES 84

CRIMPING FORCE AT DIE LEVEL: 130 kN

DIES: 84 series and 86 series

FIELD OF USE: 84 series for terminals
- uninsulated from 10 to 400 mm² (300 mm² for DIN)
- uninsulated class 6 from 10 to 185 mm²
- medium voltage from 25 to 400 mm²
- aluminum from 16 to 240 mm²
- bimetallic from 16 to 300 mm²
- bimetallic DIN from 16 to 300 mm²
- insulated from 10 to 240 mm²
- C shunt from 10 to 150 mm²
- end-sleeve from 50 to 150 mm²

86 series for deep indent of terminals
- aluminum from 35 to 240 mm²

- with 86 series it allows the crimping of aluminum terminal of through deep indent
- 18694 adapter is required to use the 84 series dies
- 180° swivel head for easy crimping in narrow places
- two pistons advancement speeds: one for quickly matching die and terminal, the other for crimping
- automatic end-of-work release device to guarantee crimping quality
- release device activated by a rotation of the handle to open the tool at the end of operation and in case of a wrong maneuver

Code	Description	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
186	130 kN press with carrying case	620	160	80	6,3	690x200x90	VA

SERIE86 SERIE84

BATTERY POWERED TOOLS

A **wide range** of **18V Li-Ion** battery operated tools for **crimping** or **cutting cables / ropes**.
Two types of tools: **in-line** for greater lightness and manageability, and **traditional pistol**,
for more powerful engine to develop forces of **62kN** and **130kN**.

RANGE:

Crimping: 37A055, 37A055A1
Cutting: 37T055

Crimping: 38A062, 38A130, 38A130L
Cutting: 38T130

DISCOVER THE **NEW GENERATION** OF HYDRAULIC TOOLS OPERATED ON 18V LI-ION **BATTERY!**

ERGONOMIC
Body made of bi-component material

POWERFUL
Stanley high performance
rechargeable 18V Li-Ion battery

INTELLIGENT
LED display to provide crimp feedback
and maintenance

CRIMPING OR CUTTING: DIFFERENT SOLUTIONS FOR ANY JOBSITE!

DISCOVER MORE!

BATTERY CRIMPING TOOLS

CRIMPING TOOL · BATTERY POWERED · IN-LINE · 55KN · DIES SERIES 83

CRIMPING FORCE AT DIE LEVEL: 55 kN

BAT: 9 mm

CRIMPING TIME: from 3 to 5 s

DIES: 83 series

BATTERY: 18V Li-ion 2.0Ah

BATTERY CAPACITY: about 220 crimps (CU 185 mm²)

USB SOCKET: Mini

FIELD OF USE: terminals
- Class 1,2,5 conductors from 10 to 300 mm²
- Class 6 conductors from 10 to 185 mm²
- DIN standard from 10 to 240 mm²
- NFC standard from 4 to 240 mm²
- Medium voltage from 25 to 300 mm²
- DIN Aluminum and bimetallic from 16 to 185 mm²
- Insulated from 10 to 95 mm²
- C shunt from 10 to 25 mm²

- LED lighting of the workplace
- working trigger with motor stop function at the stroke
- release trigger
- ergonomic handles in bi-component plastic
- handling ring for transportation (strap) or safety cable
- USB connection for data analysis & preventive maintenance
- on/off button with emergency saving function
- LED display panel for battery charge level, cycle conformity, maintenance
- electronic protection in case of overpressure
- quick motor stop function at crimping end for high user safety
- energy saving function for switching off the tool
- crimping speed improved by a high performance motor
- possibility to use 5.0Ah battery for an extended use
- quick opening & closing head
- dies retention spheres
- hexagonal crimping up to 300 mm²
- interchangeable die set
- rotative head 180°

Code	Description	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
37A055	Kit including: • crimping tool 55 kN • Rechargeable battery 18V Li-ion 2.0Ah • Battery charger 220V AC powered • carrying case	128	75	390	2,9	471x415x116 (V)	VA
37A055A1	Kit including: • crimping tool 55 kN • die set for uninsulated terminals from 10 to 240 mm² • Rechargeable battery 18V Li-ion 2.0Ah • Battery charger 220V AC powered • carrying case	128	75	390	2,9	471x415x116 (V)	VA

CE

SERIE83

CRIMPING TOOL · BATTERY POWERED · 62KN · DIES SERIES 85

CRIMPING FORCE AT DIE LEVEL: 62 kN

BAT: 13 mm

CRIMPING TIME: from 3 to 5 s

DIES: 85 series

BATTERY: 18V Li-ion 5.0Ah

BATTERY CAPACITY: about 340 crimps (CU 185 mm²)

USB SOCKET: Micro

FIELD OF USE: terminals
- Class 1,2,5 conductors from 10 to 300 mm²
- Class 6 conductors from 10 to 185 mm²
- DIN standard from 10 to 240 mm²
- NFC standard from 6 to 300 mm²
- Medium voltage from 25 to 300 mm²
- Aluminum and bimetallic from 16 to 240 mm²
- Insulated from 10 to 95 mm²
- C shunt from 10 to 50 mm²
- End-sleeves from 50 to 95 mm²

- ring LED to provide crimping cycle information and to lighten the workplace
- working trigger with motor stop function at the stroke
- release trigger
- ergonomic handles in bi-component plastic
- handling ring for transportation (strap) or safety cable
- USB connection for data analysis & preventive maintenance
- safety locking trigger
- protection membrane to ventilate the electronics keeping it safe from moisture and dust
- LED display panel for battery charge level, cycle conformity, maintenance
- electronic protection in case of overpressure
- quick motor stop function at crimping or cutting end for high user safety
- energy saving function for switching off the tool
- rimping speed improved by a high performance motor
- 2 hydraulic pump stages for improved fast advance
- quick opening & closing head
- dies retention spheres
- hexagonal crimping up to 300 mm²
- excellent ratio weight/capacity
- interchangeable die set
- rotative head 270°

Code	Description	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
38A062	Kit including: • crimping tool 62 kN • Rechargeable battery 18V Li-ion 5.0Ah • Battery charger 220V AC powered • carrying case	375	75	325	5,1	594x494x149	VA

CE

SERIE85

CRIMPING TOOL · BATTERY POWERED · 130KN · DIES SERIES 84

CRIMPING FORCE AT DIE LEVEL: 130 kN

DIES: 84 series

BATTERY: 18V Li-ion 5.0Ah

USB SOCKET: Micro

FIELD OF USE: terminals
- Class 1,2,5 conductors from 10 to 400 mm²
- Class 6 conductors from 10 to 185 mm²
- DIN standard from 10 to 300 mm²
- NFC standard from 6 to 300/400 mm² (38A130/38A130L)
- Medium voltage from 25 to 400 mm²
- Aluminum and bimetallic from 16 to 300 mm²
- Insulated from 10 to 240 mm²
- C shunt from 10 to 150 mm²
- End-sleeves from 50 to 150 mm²

- ring LED to provide crimping cycle information and to lighten the workplace
- working trigger with motor stop function at the stroke
- release trigger
- ergonomic handles in bi-component plastic
- handling ring for transportation (strap) or safety cable
- USB connection for data analysis & preventive maintenance
- safety locking trigger
- protection membrane to ventilate the electronics keeping it safe from moisture and dust
- LED display panel for battery charge level, cycle conformity, maintenance
- electronic protection in case of overpressure
- quick motor stop function at crimping or cutting end for high user safety
- energy saving function for switching off the tool
- rimping speed improved by a high performance motor
- 2 hydraulic pump stages for improved fast advance
- "C" opening
- dies retention spheres
- hexagonal crimping up to 400 mm²
- interchangeable die set

Code	Description	Max "C" opening (mm)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
38A130	Kit including: • crimping tool 130 kN • Rechargeable battery 18V Li-ion 5.0Ah • Battery charger 220V AC powered • carrying case	27	400	75	310	7	594x494x149	VA
38A130L	Kit including: • crimping tool 130 kN • Rechargeable battery 18V Li-ion 5.0Ah • Battery charger 220V AC powered • carrying case	45	430	75	310	7,4	594x494x149	VA

CE

SERIE84

ACCESSORIES • FOR BATTERY POWERED TOOL

Code	Description	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)
39B2AH	Rechargeable battery 18V Li-ion 2.0 Ah Charge time: 40 min Compatibility: 37A055, 37T055	115	75	45	0,36
39B5AH	Rechargeable battery 18V Li-ion 5.0 Ah Charge time: 80 min Compatibility: 37A055, 37T055, 38A062, 38A130, 38A130L, 38T130	115	75	65	0,62
39C220	Battery charger powered by 220V AC	180	120	80	0,54

CE

DIES SELECTION GUIDE

MECHANICAL

Code	Dies
582	SERIE82

HAND HYDRAULIC

Code	Dies
1823P / 1823A1 / 1823A2 / 1823A3 / 1823A4 **182 / 182P / 1823 / 1824** *phase-out **200 / 200PA** *phase-out	SERIE82
1833 / 1833A1 **183 / 183P** *phase-out	SERIE83
184P / 184PL **184** *phase-out	SERIE84
186	SERIE84 SERIE86

BATTERY POWERED

Code	Dies
37A055 / 37A055A1 **383** *phase-out	SERIE83
38A062	SERIE85
38A130 / 38A130L **384** *phase-out	SERIE84

HEADSTOCKS

Code	Dies
200A *phase-out	SERIE82
2833 **283** *phase-out	SERIE83
284 / 284L	SERIE84
286	SERIE84 SERIE86

SERIE82

DIES SERIES 82

COMPATIBILITY
- **582** mechanical crimping tool (up to 150 mm² for uninsulated terminals and up to 120 mm² for DIN terminals)
- **200/200PA** hydraulic manual multi-head
- **1823P/1823A1/1823A2/1823A3/1823A4** hydraulic manual
- **182/182P/1823/1824** hydraulic manual (out of print)
- **200A** crimping head for multi-head manual hydraulic

MATERIAL: steel + heat treatment
SURFACE TREATMENT: burnished

	For copper conductors												For all
	uninsulated cl 1, 2, 5 (terminal lug, butt connector)			uninsulated class 6 (terminal lug)			uninsulated DIN 46235, 46234, 46267/1 (terminal lug, butt connector)			uninsulated Medium Voltage (terminal lug, butt connector)			prerounding
mm²	Die Type	ID		Die Type	ID		Die Type	ID		Die Type	ID		Die Type
10	**182010**	7	⬡	**182010**	7	⬡	**182310**	6	⬡	---	-	-	---
16	**182016**	7.5	⬡	**182016**	7.5	⬡	**182316**	8	⬡	---	-	-	---
25	**182025**	9	⬡	**182025**	9	⬡	**182325**	10	⬡	**182325**	10	⬡	---
35	**182035**	11	⬡	**182035**	11	⬡	**182335**	12	⬡	**182035**	12	⬡	---
50	**182035**	12	⬡	**182435**	13	⬡	**182335**	14	⬡				**182550**
70	**182025**	14	⬡	**182025**	14	⬡	**182325**	16	⬡	**182016**	16	⬡	**182570**
95	**182016**	16	⬡	**182010**	18	⬡	**182316**	18	⬡	**182015**	20	⬡	**182595**
120	**182010**	18	⬡	**182015**	20	⬡	**182310**	20	⬡	**182018**	22	⬡	**182512**
150	**182015**	20	⬡	**182018**	22	⬡	**182018**	22	⬡				**182515**
185	**182018**	22	⬡	**182024**	25	⬡	**182024**	25	⬡	---	-	-	---
240	**182024**	25	⬡	---	-	-	---	-	-	---	-	-	---

	For copper conductors						For aluminum conductors					
	insulated (terminal lug)		C shunts		End-sleeves		uninsulated (bimetallic)			uninsulated DIN 48201 (terminal lug, bimetallic, joint)		
mm²	Die Type		Die Type		Die Type		Die Type	ID		Die Type	ID	
10	**182110**	⬭	**182210**	○	---	-	---	-	-	---	-	-
16	**182116**	⬭	**182225**	○	---	-	**182450**	15	⬡	**182035**	12	⬡
25	**182125**	⬭			---	-						
35	**182135**	⬭	**182235**	○	---	-	**182015**	20	⬡	**182435**	13	⬡
50	**182150**	⬭	---	-	**182650**	▽				**182450**	15	⬡
70	**182170**	⬭	---	-	**182670**	▽				**182015**	20	⬡
95	**182195**	⬭	---	-	**182695**	▽				**182495**	21	⬡
120	---	-	---	-	**182612**	▽	**182024**	25	⬡	**182018**	22	⬡
150	---	-	---	-	**182615**	▽				**182024**	25	⬡
185	---	-	---	-	---	-	---	-	-	---	-	-
240	---	-	---	-	---	-	---	-	-	---	-	-

KEY TO SYMBOLS

⬡ hexagonal compression
⬭ compression with radial containment
○ oval compression
▽ trapezoidal compression

SERIE83

DIES SERIES 83

COMPATIBILITY
- **1833/1833A1** hydraulic manual
- **183/183P** hydraulic manual (out of print)
- **37A055/37A055A1** hydraulic battery powered
- **383** hydraulic battery powered (out of print)
- **2833** head for pump
- **283** head for pump (out of print)

MATERIAL: steel + heat treatment
SURFACE TREATMENT: burnished

	For copper conductors															For all
	uninsulated cl 1, 2, 5 (terminal lug, butt connector)			uninsulated class 6 (terminal lug)			uninsulated DIN 46235, 46234, 46267/1 (terminal lug, butt connector)			uninsulated NFC (terminal lug, butt connector)		uninsulated Medium Voltage (terminal lug, butt connector)			prerounding	
mm²	Die Type	ID		Die Type	ID		Die Type	ID		Die Type		Die Type	ID		Die Type	
4	---	-	-	---	-	-	---	-	-	**183704**	⬡	---	-	-	---	
6	---	-	-	---	-	-	---	-	-	**183706**	⬡	---	-	-	---	
10	**183010**	7	⬡	**183010**	7	⬡	**183310**	6	⬡	**183710**	⬡	---	-	-	---	
16	**183016**	7.5	⬡	**183016**	7.5	⬡	**183316**	8	⬡	**183716**	⬡	---	-	-	---	
25	**183025**	9	⬡	**183025**	9	⬡	**183325**	10	⬡	**183725**	⬡	**183325**	10	⬡	---	
35	**183035**	11	⬡	**183035**	11	⬡	**183335**	12	⬡	**183706**	⬡	**183050**	12	⬡	---	
50	**183050**	12	⬡	**183435**	13	⬡	**183350**	14	⬡	**183710**	⬡				**183550**	
70	**183050**	14	⬡	**183050**	14	⬡	**183350**	16	⬡	**183716**	⬡	**183035**	16	⬡	**183570**	
95	**183035**	16	⬡	**183025**	18	⬡	**183335**	18	⬡	**183725**	⬡	**183016**	20	⬡	**183595**	
120	**183025**	18	⬡	**183016**	20	⬡	**183325**	20	⬡	**183704**	⬡	**183010**	22	⬡	**183512**	
150	**183016**	20	⬡	**183010**	22	⬡	**183316**	22	⬡	**183715**	⬡				**183515**	
185	**183010**	22	⬡	**183024**	25	⬡	**183310**	25	⬡	**183718**	⬡				---	
240	**183024**	25	⬡	---	-	-	**183324**	28	⬡	**183724**	⬡	**183324**	28	⬡	---	
300	**183324**	28	⬡	---	-	-	---	-	-	---	-				---	

	For copper conductors						For aluminum conductors								
	insulated (terminal lug)		C shunts		End-sleeves		uninsulated (bimetallic)			uninsulated DIN 48201 (terminal lug, bimetallic, joint)					
mm²	Die Type		Die Type		Die Type		Die Type	ID		Die Type	ID				
4	---	-	---	-	---	-	---	-	-	---	-	-			
6	---	-	---	-	---	-	---	-	-	---	-	-			
10	**183110**	⬭	**183210**	○	---	-	---	-	-	---	-	-			
16	**183116**	⬭	**183225**	○	---	-	**183450**	15	⬡	**183050**	12	⬡			
25	**183125**	⬭			---	-									
35	**183135**	⬭	**183235***	○	---	-	**183016**	20	⬡	**183435**	13	⬡			
50	**183150**	⬭	**183270***	○	**183650**	▽				**183450**	15	⬡			
70	**183170**	⬭			**183670***	▽				**183016**	20	⬡			
95	**183195**	⬭	**183295***	○	**183695***	▽				**183495**	21	⬡			
120	---	-	---	-	**183612***	▽	**183024**	25	⬡	**183010**	22	⬡			
150	---	-	---	-	**183615***	▽				**183024**	25	⬡			
185	---	-	---	-	---	-	---	-	-	**183324**	28	⬡			
240	---	-	---	-	---	-	---	-	-	---	-	-			
300	---	-	---	-	---	-	---	-	-	---	-	-			

* dies not usable with crimping tool 37A055

KEY TO SYMBOLS

⬡ hexagonal compression
⬭ compression with radial containment
○ oval compression
▽ trapezoidal compression

SERIE84

DIES SERIES 84

COMPATIBILITY
- **184P/184PL/186** hydraulic manual
- **184** hydraulic manual (out of print)
- **38A130/38A130L** hydraulic battery powered
- **384** hydraulic battery powered (out of print)
- **284/284L/286** head for pump

MATERIAL: steel + heat treatment
SURFACE TREATMENT: burnished
THICKNESS: 35 mm

	For copper conductors															For all
	uninsulated cl 1, 2, 5 (terminal lug, butt connector)			uninsulated class 6 (terminal lug)			uninsulated DIN 46235, 46234, 46267/1 (terminal lug, butt connector)			uninsulated NFC (terminal lug, butt connector)		uninsulated Medium Voltage (terminal lug, butt connector)			prerounding	
mm²	Die Type	ID		Die Type	ID		Die Type	ID		Die Type		Die Type	ID		Die Type	
6	---	-	-	---	-	-	---	-	-	**184706**	⬡	---	-	-	---	
10	**184010**	7	⬡	**184010**	7	⬡	**184310**	6	⬡	**184710**	⬡	---	-	-	---	
16	**184016**	7.5	⬡	**184016**	7.5	⬡	**184316**	8	⬡	**184716**	⬡	---	-	-	---	
25	**184025**	9	⬡	**184025**	9	⬡	**184325**	10	⬡	**184725**	⬡	**184325**	10	⬡	---	
35	**184035**	11	⬡	**184035**	11	⬡	**184050**	12	⬡	**184735**	⬡	**184050**	12	⬡	---	
50	**184050**	12	⬡	**184435**	13	⬡	**184070**	14	⬡	**184750**	⬡				**184550**	
70	**184070**	14	⬡	**184070**	14	⬡	**184095**	16	⬡	**184770**	⬡	**184095**	16	⬡	**184570**	
95	**184095**	16	⬡	**184012**	18	⬡	**184012**	18	⬡	**184795**	⬡	**184015**	20	⬡	**184595**	
120	**184012**	18	⬡	**184015**	20	⬡	**184015**	20	⬡	**184712**	⬡	**184018**	22	⬡	**184512**	
150	**184015**	20	⬡	**184018**	22	⬡	**184018**	22	⬡	**184715**	⬡				**184515**	
185	**184018**	22	⬡	**184024**	25	⬡	**184024**	25	⬡	**184718**	⬡				**184518**	
240	**184024**	25	⬡	---	-	-	**184030**	28	⬡	**184724**	⬡	**184030**	28	⬡	**184524**	
300	**184030**	28	⬡	---	-	-	**184424**	32	⬡	**184730**	⬡				**184530**	
400	**184040**	35	⬡	---	-	-	---	-	-	**184740***	⬡	**184040**	35	⬡	**184540**	

	For copper conductors						For aluminum conductors					
	insulated (terminal lug)		C shunts		End-sleeves		uninsulated (bimetallic)			uninsulated DIN 48201 (terminal lug, bimetallic, joint)		
mm²	Die Type		Die Type		Die Type		Die Type	ID		Die Type	ID	
6	---	-	---	-	---	-	---	-	-	---	-	-
10	**184110**	▢	**184210**	○	---	-	---	-	-	---	-	-
16	**184116**	▢	**184225**	○	---	-	**184450**	15	⬡	**184050**	12	⬡
25	**184125**	▢			---	-						
35	**184135**	▢	**184235**	○	---	-	**184015**	20	⬡	**184435**	13	⬡
50	**184150**	▢	**184270**	○	**184650**	▽				**184450**	15	⬡
70	**184170**	▢			**184670**	▽				**184015**	20	⬡
95	**184195**	▢	**184295**	○	**184695**	▽				**184495**	21	⬡
120	**184112**	▢	**184212**	○	**184612**	▽	**184024**	25	⬡	**184018**	22	⬡
150	**184115**	▢			**184615**	▽				**184024**	25	⬡
185	**184118**	▢	---	-	---	-	**184424**	32	⬡	**184030**	28	⬡
240	**184124**	▢	---	-	---	-				**184424**	32	⬡
300	---	-	---	-	---	-	**184430**	34	⬡	**184430**	34	⬡
400	---	-	---	-	---	-	---	-	-	---	-	-

KEY TO SYMBOLS

⬡ hexagonal compression
▢ compression with radial containment
○ oval compression
▽ trapezoidal compression

DIES SERIES 85

COMPATIBILITY
• **38A062** hydraulic battery powered

MATERIAL: steel + heat treatment
SURFACE TREATMENT: burnished
THICKNESS: 22 mm

	For copper conductors															For all	
	uninsulated cl 1, 2, 5 (terminal lug, butt connector)			uninsulated class 6 (terminal lug)			uninsulated DIN 46235, 46234, 46267/1 (terminal lug, butt connector)			uninsulated NFC (terminal lug, butt connector)		uninsulated Medium Voltage (terminal lug, butt connector)			prerounding	
mm²	Die Type	ID		Die Type	ID		Die Type	ID		Die Type		Die Type	ID		Die Type	
6	---	-	-	---	-	-	---	-	-	**185706**	⬡	---	-	-	---	
10	**185010**	7	⬡	**185010**	7	⬡	**185310**	6	⬡	**185710**	⬡	---	-	-	---	
16	**185016**	7.5	⬡	**185016**	7.5	⬡	**185316**	8	⬡	**185716**	⬡	---	-	-	---	
25	**185025**	9	⬡	**185025**	9	⬡	**185325**	10	⬡	**185725**	⬡	**185325**	10	⬡	---	
35	**185035**	11	⬡	**185035**	11	⬡	**185050**	12	⬡	**185735**	⬡	**185050**	12	⬡	---	
50	**185050**	12	⬡	**185435**	13	⬡	**185070**	14	⬡	**185750**	⬡				**185550**	
70	**185070**	14	⬡	**185070**	14	⬡	**185095**	16	⬡	**185770**	⬡	**185095**	16	⬡	**185570**	
95	**185095**	16	⬡	**185012**	18	⬡	**185012**	18	⬡	**185795**	⬡	**185015**	20	⬡	**185595**	
120	**185012**	18	⬡	**185015**	20	⬡	**185015**	20	⬡	**185712**	⬡	**185018**	22	⬡	**185512**	
150	**185015**	20	⬡	**185018**	22	⬡	**185018**	22	⬡	**185715**	⬡				**185515**	
185	**185018**	22	⬡	**185024**	25	⬡	**185024**	25	⬡	**185718**	⬡				---	
240	**185024**	25	⬡	---	-	-	**185030**	28	⬡	**185724**	⬡	**185030**	28	⬡	---	
300	**185030**	28	⬡	---	-	-	---	-	-	**185730**	⬡				---	

	For copper conductors						For aluminum conductors					
	insulated (terminal lug)		C shunts		End-sleeves		uninsulated (bimetallic)			uninsulated DIN 48201 (terminal lug, bimetallic, joint)		
mm²	Die Type		Die Type		Die Type		Die Type	ID		Die Type	ID	
6	---	-	---	-	---	-	---	-	-	---	-	-
10	**185110**	⬭	**185210**	○	---	-	---	-	-	---	-	-
16	**185116**	⬭	**185225**	○	---	-	**185450**	15	⬡	**185050**	12	⬡
25	**185125**	⬭			---	-						
35	**185135**	⬭	**185235**	○	---	-	**185015**	20	⬡	**185435**	13	⬡
50	**185150**	⬭	**185250**	○	**185650**	▽				**185450**	15	⬡
70	**185170**	⬭	---	-	**185670**	▽				**185015**	20	⬡
95	**185195**	⬭	---	-	**185695**	▽				**185495**	21	⬡
120	---	-	---	-	---	-	**185024**	25	⬡	**185018**	22	⬡
150	---	-	---	-	---	-				**185024**	25	⬡
185	---	-	---	-	---	-	**185424**	32	⬡	**185030**	28	⬡
240	---	-	---	-	---	-				**185424**	32	⬡
300	---	-	---	-	---	-	---	-	-	---	-	-

KEY TO SYMBOLS

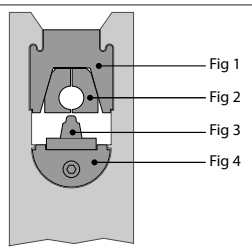
⬡ hexagonal compression
⬭ compression with radial containment
○ oval compression
▽ trapezoidal compression

SERIE86

DIES SERIES 86

COMPATIBILITY
- **BM 186** (hydraulic manual crimping tool)
- **BM 286** (crimping head)

	For aluminium conductors DIN 48201				
	Die holder Fig. 1	Die Fig. 2		Indentor Fig. 3	Die support Fig. 4
		for terminal lugs	for joints		
mm²	Code	Code	Code	Code	Code
35	**18692**	**186750**	**186850**	**186450**	**18691**
50					
70		**186770**	**186870**	**186470**	
95					
120	**18693**	**186715**	**186815**	**186415**	
150					
185		**186724**	**186824**	**186424**	
240					



ADAPTOR

Code	Description
18694	Series 84 die adapter for items 186 and 286

CABLE CUTTERS AND WIRE ROPE CUTTERS

CABLE CUTTER · UP TO 35 mm²

High-precision sharpened, hardened steel tool, that requires minimal effort thanks to the optimal leverage of the handles and the shape of the blades.

Code	Description	Cu/Al cable (mm²)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
568	cable cutters	35	210	60	20	0,5	240x60x25	SC

CABLE CUTTER · UP TO 60 mm²

High-precision sharpened, hardened steel tool, that requires minimal effort thanks to the optimal leverage of the handles and the shape of the blades.

Code	Description	Cu/Al cable (mm²)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
5681	cable cutters	60	230	50	20	0,5	240x60x25	SC

CABLE CUTTER · RACHETING UP · UP TO 32 mm

Entirely made of hardened steel, they come with plastic handles for a secure grip. They can be opened even during the cutting operation and have a locking mechanism for transport.

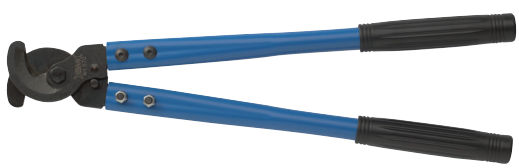
Code	Description	Cu/Al cable (Ø mm)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
575	cable cutters	32 max	240	100	40	0,7	250x110x50	SC

CABLE CUTTER · RACHETING UP · UP TO 50 mm

Entirely made of hardened steel, they come with plastic handles for a secure grip. They can be opened even during the cutting operation and have a locking mechanism for transport.

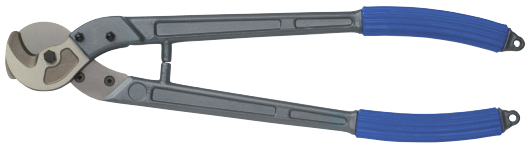
Code	Description	Cu/Al cable (Ø mm)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
576	cable cutters	50 max	280	110	40	1,1	290x120x50	SC

CABLE CUTTER · WITH LONG HANDLES · UP TO 120 mm²



Code	Description	Cu/Al cable (Ø mm)	Cu/Al cable (mm²)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
570	cable cutters	18 max	120	370	100	20	0,7	380x130x25	SC

CABLE CUTTER · WITH LONG HANDLES · UP TO 240 mm²



Tempered carbon steel blades, alloy handles with plastic grip.
High-precision sharpened, they require minimal effort thanks to the optimal leverage of the handles and the shape of the blades.

Code	Description	Cu/Al cable (Ø mm)	Cu/Al cable (mm²)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
571	cable cutters	30 max	240	610	160	40	1,9	620x170x45	SC

CABLE CUTTER · WITH LONG HANDLES · UP TO 400 mm²

Tempered carbon steel blades, alloy handles with plastic grip.
High-precision sharpened, they require minimal effort thanks to the optimal leverage of the handles and the shape of the blades.

Code	Description	Cu/Al cable (Ø mm)	Cu/Al cable (mm²)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
572	cable cutters	37 max	400	810	170	45	3	820x180x50	SC

CUTTING TOOL · HYDRAULIC · MANUAL · UP TO 20 mm

- closed guillotine cut
- 180° adjustable head
- safety device to guarantee max working pressure
- release device to open the blades at the end of operation and in case of a wrong maneuver

Code	Description	Cu/Al cable (Ø mm)	Steel cable (Ø mm)	Cu rod (Ø mm)	Iron rod (Ø mm)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
187	cable cutters / wire rope cutters	20 max	15 max	20 max	16 max	380	210	45	2,8	400x240x65	SA

CUTTING TOOL · HYDRAULIC · MANUAL · UP TO 40 mm

- closed guillotine cut
- 180° adjustable head
- safety device to guarantee max working pressure
- release device to open the blades at the end of operation and in case of a wrong maneuver

Code	Description	Cu/Al cable (Ø mm)	Steel cable (Ø mm)	Cu rod (Ø mm)	Iron rod (Ø mm)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
188	cable cutters / wire rope cutters	40 max	15 max	25 max	16 max	580	160	50	5,3	630x170x60	SA

CUTTING TOOL · HYDRAULIC · MANUAL · UP TO 85 mm

- closed guillotine cut
- 180° adjustable head
- safety device to guarantee max working pressure
- release device to open the blades at the end of operation and in case of a wrong maneuver

Code	Description	Cu/Al cable (Ø mm)	Steel cable (Ø mm)	Cu rod (Ø mm)	Al rod (Ø mm)	Iron rod (Ø mm)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
189	cable cutters	85 max	-	-	-	-	690	140	80	8	750x150x100	SA

CUTTING TOOL · BATTERY POWERED · IN-LINE · 55 KN

FORCE: 55 kN
CUTTING TIME: from 8 to 12 s
MAX PASSAGE: 25 mm
BATTERY: 18V Li-ion 2.0Ah
USB SOCKET: Mini

- LED lighting of the workplace
- working trigger with motor stop function at the stroke
- release trigger
- ergonomic handles in bi-component plastic
- handling ring for transportation (strap) or safety cable
- USB connection for data analysis & preventive maintenance
- on/off button with emergency saving function
- LED display panel for battery charge level, cycle conformity, maintenance
- electronic protection in case of overpressure
- quick motor stop function at cutting end for high user safety
- energy saving function for switching off the tool
- crimping speed improved by a high performance motor
- possibility to use 5.0Ah battery for an extended use
- quick opening & closing head
- dies retention spheres
- hexagonal crimping up to 300 mm²
- interchangeable blades
- rotative head 180°

Code	Description	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
37T055	cable cutters / wire rope cutters	128	75	400	3,3	471x415x116	VA

CE

CUTTING CAPACITY	TYPE OF CABLES	MAX. HARDNESS	MAX. CUTTING Ø
Ropes	7x19 strands - steel	100 > 120 daN/mm²	ø 15 > 16 mm
	7x37 strands - steel	130 > 145 daN/mm²	ø 12 > 13 mm
Electrical conductors	Bare - copper/aluminum		300 mm²
	Rigid multi-strand - copper/aluminum		ø 20 > 22 mm
	Semi-rigid multi-strand - copper/aluminum		ø 20 > 22 mm
Round bars	Copper	< 20 daN/mm²	ø 20 > 22 mm
	Hard copper	20 > 28 daN/mm²	ø 15 > 18 mm
	Aluminum	< 20 daN/mm²	ø 20 > 25 mm
	Mild steel	42 > 45 daN/mm²	ø 12 > 14 mm
	Medium hard steel	50 > 70 daN/mm²	ø 10 mm
Insulated cables	Depends on the thickness of insulation		150 > 240 mm²
	Stainless steel	< 150 daN/mm²	ø 8 > 10 mm

CUTTING TOOL · BATTERY POWERED · 130 kN

FORCE: 130 kN
CUTTING TIME: from 10 to 30 s
MAX PASSAGE: 45 mm
BATTERY: 18V Li-ion 5.0 Ah
USB SOCKET: Micro

- ring LED to provide crimping cycle information and to lighten the workplace
- working trigger with motor stop function at the stroke
- release trigger
- ergonomic handles in bi-component plastic
- handling ring for transportation (strap) or safety cable
- USB connection for data analysis & preventive maintenance
- safety locking trigger
- protection membrane to ventilate the electronics keeping it safe from moisture and dust
- LED display panel for battery charge level, cycle conformity, maintenance
- electronic protection in case of overpressure
- quick motor stop function at cutting end for high user safety
- energy saving function for switching off the tool
- rimping speed improved by a high performance motor
- 2 hydraulic pump stages for improved fast advance
- copper, aluminum and stee calbes/ropes/rods
- max passage up to ø 45 mm
- cutting guillotine type
- locking pin
- interchangeble blades
- rotative heads 220°

Code	Description	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
38T130	cable cutters / wire rope cutters	505	75	330	8,65	594x494x149	VA

CE

CUTTING CAPACITY	TYPE OF CABLES	MAX. HARDNESS	MAX. CUTTING Ø
Conductors/Ropes	Copper	< 40 daN/mm²	ø 45 mm
	Aluminum	< 20 daN/mm²	ø 45 mm
	Almelec	< 34 daN/mm²	ø 45 mm
	Steel	< 180 daN/mm²	7 x ø 3,0 (= ø 9,0)
			19 x ø 2,1 (= ø 10,5)
			19 x ø 2,3 (= ø 11,5)
	Multi-steel strands	< 180 daN/mm²	ø 18 (strands quantities: 200)
	ACSR (Aluminum conductor steel-reinfroced cable)	< 180 daN/mm²	26 x ø 2,50 + 7 x ø 1,95 (= ø 15,85)
			26 x ø 3,06 + 7 x ø 2,38 (= ø 19,38)
			26 x ø 3,60 + 7 x ø 2,80 (= ø 22,80)
			54 x ø 3,50 + 19 x ø 2,10 (= ø 31,50)
			54 x ø 4,36 + 19 x ø 2,62 (= ø 39,20)
Bars	Steel	< 60 daN/mm²	ø 20
		< 42 daN/mm²	ø 22
	Copper	< 30 daN/mm²	ø 33
		< 25 daN/mm²	ø 35
	Aluminum	< 16 daN/mm²	ø 45

ACCESSORIES • FOR BATTERY POWERED TOOL

Code	Description	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)
39B2AH	Rechargeable battery 18V Li-ion 2.0 Ah Charge time: 40 min Compatibility: 37A055, 37T055	115	75	45	0,36
39B5AH	Rechargeable battery 18V Li-ion 5.0 Ah Charge time: 80 min Compatibility: 37A055, 37T055, 38A062, 38A130, 38A130L, 38T130	115	75	65	0,62
39C220	Battery charger powered by 220V AC	180	120	80	0,54

CE

DRILLERS

PUNCHER · DIAMETER 6 mm

• tool with wide opening that allows for drilling in the corners, even if there are edges
• cast aluminum body and handle make the device very light
• regrindable and interchangeable hardened steel punch
Applications: fastening and joining of cable ducts, drilling for rivels, etc.
Not suitable for stainless steel.

Code	Description	Diameter (Ø mm)	For steel sheets with max **thickness** (mm)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
18506	puncher	6	1.2	230	120	25	0,36	265x140x50	SC
18516	spare punch	6							

PUNCHER · DIAMETER 8 mm

• tool with wide opening that allows for drilling in the corners, even if there are edges
• cast aluminum body and handle make the device very light
• regrindable and interchangeable hardened steel punch
Applications: fastening and joining of cable ducts, drilling for rivels, etc.
Not suitable for stainless steel.

Code	Description	Diameter (Ø mm)	For steel sheets with max **thickness** (mm)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
18508	puncher	8	0.8	230	120	25	0,36	265x140x50	SA
18518	spare punch	8							

PUNCHING TOOL · HYDRAULIC · MANUAL

FORCE: 55 kN

PUNCHER DIES: T series, Q series and R series

PUNCH CONNECTION THREAD: M16 x 1.5

MAXIMUM PUNCHING DIMENSIONS: • round punching: 72 mm (48 mm for inox)
• square punching: 68 mm x 68 mm
• rectangular punching: 46 mm x 92 mm

MAXIMUM PUNCHING THICKNESS: • iron sheet: max 3 mm
• ASI inox 304 steel sheet: max 2 mm
• aluminum and plastic material: max 5 mm

HOW TO USE: • make the hole on the sheet with the drill
• pass the guide pin through the pre-drilled hole
• assembly the die and the punch on both sides of the sheet
• perform the punching

Code	Description	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
185	Hand hydraulic punching press complete with carrying case	360	120	50	2,7	450x300x100	VA
1856	Punching press kit complete with • BM 185 manual hydraulic punching press with carrying case • round punchers Ø 15.5 - Ø 19.5 - Ø 22.5 - Ø 26.5 - Ø 30.5 • guide pin Ø 11	360	120	50	2,7	450x300x100	VA

PUNCHERS · ROUND (SERIES T)

COMPATIBILITY: • BM 185, BM 1856 (manual hydraulic punching tools) for Ø up to 72 mm
• BM 200F (punching head for BM 200 manual hydraulic multi-head) for Ø up to 72 mm
• BM 265 (punching head for pump)

MATERIAL: cemented steel

Code	Puncher Ø (mm)	Suitable for	Pin code to use	Pilot hole (mm)
T1550	15,5	PG 9	301	11.5
T1600	16,2	M 16	301	11.5
T1700	17	G 3/8"	301	11.5
T1950	19,5	PG 11	301	11.5
T2000	20,4	M 20	301	11.5
T2100	21	PG 13.5	301	11.5
T2250	22,5	PG 16	301	11.5
T2400	24	G 5/8"	301	11.5
T2550	25,4	M 25	301	11.5
T2650	26,5	G 3/4"	301	11.5
T2850	28,5	PG 21	301	11.5
T3050	30,5		301	11.5
T3250	32,5	M 32	302	17
T3500	35		302	17
T3850	38,5	PG 29	302	17
T4000	40,5	M 40	302	17
T4200	42		302	17
T4500	45		302	17
T4800	48	PG 36	302	17
T5050	50,5	M 50	302	17
T5400	54	PG 42	302	17
T5550	55,5		302	17
T5700	57		302	17
T6050	60,5	PG 48	302	17
T6200	62		302	17
T6500	65	M 63	302	17
T7050	70,5		302	17
T7200	72		302	17
T7500	75		303	22.5
T8050	80,5		303	22.5
T9100	91		303	22.5
T1050	105		304	28.5
T1150	115		304	28.5

PINS FOR ROUND PUNCHERS (T SERIES)

MATERIAL: cemented steel
PIN THREAD: M16 x 1.5

Code	pin Ø (mm)	Pilot hole (mm)
301	11	11.5
302	16	17
303	22	22.5
304	27	28.5

PUNCHERS · SQUARE (SERIES Q)

COMPATIBILITY: • BM 185, BM 1856 (manual hydraulic punching tools) for side up to 68 mm
• BM 200F (punching head for BM 200 manual hydraulic multi-head) for side up to 68 mm
• BM 265 (punching head for pump)
MATERIAL: cemented steel

Code	Side (mm)	Pin code to use	Pilot hole (mm)
Q20	20	310	17
Q24	24	310	17
Q30	30	311	19.5
Q40	40	312	19.5
Q46	46	312	19.5
Q50	50	313	28.5
Q57	57	313	28.5
Q68	68	313	28.5
Q92	92	313	28.5

PINS FOR SQUARE PUNCHERS (Q SERIES)

MATERIAL: cemented steel
PIN THREAD: M16 x 1.5

Code	pin Ø (mm)	Pilot hole (mm)
310	8	17
311	12	19.5
312	14	19.5
313	20	28.5
314	22	28.5

PUNCHERS · RECTANGULAR (SERIES R)

COMPATIBILITY: • BM 185, BM 1856 (manual hydraulic punching tools) up to 46 x 72 mm
• BM 200F (punching head for BM 200 manual hydraulic multi-head) up to 46 x 72 mm
• BM 265 (punching head for pump)
MATERIAL: cemented steel

Code	Side (mm)	Pin code to use	Pilot hole (mm)
R2036	20x36	321	19.5
R2226	22x26	320	17
R2230	22x30	321	19.5
R2236	22x36	321	19.5
R2242	22x42	321	19.5
R2249	22x49	321	19.5
R2345	23x45	321	19.5
R2445	24x45	321	19.5
R2658	26x58	322	19.5
R2951	29x51	322	19.5
R2971	29x71	322	19.5
R3046	30x46	322	19.5
R3251	32x51	322	19.5
R3276	32x76	323	28.5
R3646	36x46	322	19.5
R3752	37x52	322	19.5
R3757	37x57	322	19.5
R3797	37x97	323	28.5
R3865	38x65	322	19.5
R4011	40x115	323	28.5
R4672	46x72	323	28.5

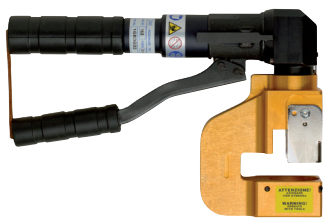
PINS FOR RECTANGULAR PUNCHERS (R SERIES)

MATERIAL: cemented steel

PIN THREAD: M16 x 1.5

Code	pin Ø (mm)	Pilot hole (mm)
320	8	17
321	12	19.5
322	14	19.5
323	20	28.5
324	22	28.5

DUCT PUNCHER · HYDRAULIC · MANUAL



FORCE: 27 kN

MAXIMUM PUNCHING THICKNESS: • iron sheet: max 1.2 mm
• ASI inox 304 steel sheet: max 1 mm

FIELD OF USE: steel or plastic cable ducts

HOW TO USE: • pre-hole is not needed
• it allows the punching of ducts installed only 16 cm from the wall with diameters up to 40 mm

Code	Description	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
168	Manual hydraulic cable duct puncher. Complete with punchers Ø 16.2 - 20.4 - 25.5 - 32.5 - 40.5 mm and carrying box.	300	200	50	2,8	480x390x140	VA

PUMPS AND HEADSTOCKS

CRIMPING TOOL · PNEUMATIC

OPERATING PRESSURE: 5-6 bar
OUTPUT FORCE: 1.3 kN at 5 bar

Pneumatic crimping tool with foot control complete with 534D die.
Crimping tool particularly suitable when a high degree of productivity in crimping is required. The dies are easy to change and work at a pressure of 6 bar. With foot control.

Code	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
1661	225	135	90	2,7	350x250x300	SC

SERIE5

DIES · SERIES 5 · FOR BM 1661

Code	Compatible positioner	Terminal type	Section (mm²)	Section (AWG)
534D		dies for insulated terminals	0.25 ÷ 6	(22-10)
535D		die for uninsulated copper terminals	0.5 ÷ 10	(20-8)
531D	16187, 16250	die for uninsulated open barrel brass terminals	0.5 ÷ 6	(20-10)
16187		positioner for die 531D - tab size 4,8 mm		
16250		positioner for die 531D - tab size 6,3 mm		
532D		die for quick-connect female flag insulated terminals	0.5 ÷ 2.5	(20-14)
537D		die for end-sleeve terminals	0.5 ÷ 4	(20-12)
539D		die for end-sleeve terminals	6 ÷ 16	(10-6)
500D		die for cable cutter		
543D		die for coaxial connectors RG 58-59		

SERIE5

HYDRAULIC FOOT-PUMP

PRESSURE:max 700 bar

COMPATIBILITY: usable heads
- 283, 284, 286, 270 (crimping)
- 287, 288, 289 (cutting)
- 265, 267, 263 (drilling)
- 26914 (cutting DIN rails)

DRIVE: foot-pump

- high pressure flexible tube with quick coupling female connector with automatic locking
- two working speeds to have two piston advancement speeds, one for quick approach the other for operation
- automatic end-of-work release device to guarantee punching quality
- release device activated by a button to open the tool at the end of operation and in case of a wrong maneuver

Code	Description	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
1600	Hydraulic foot-pump	460	130	400	13	500x150x250	SC

ACCESSORIES FOR BM 1600 · CASE

COMPATIBILITY: pump
- 1600

Code	Description	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
161	Metallic carrying case for 1600 with side handles and opening on the top	650	200	250	NA	NA	NA

PNEUMATIC HYDRAULIC PUMP

PRESSURE:max 700 bar

COMPATIBILITY: usable heads
- 283, 284, 286, 270 (crimping)
- 287, 288, 289 (cutting)
- 265, 267, 263 (drilling)
- 26914 (cutting DIN rails)

DRIVE: foot control

- high pressure flexible tube with quick coupling female connector with automatic locking
- automatic end-of-work release device to guarantee punching quality
- release device activated by a button to open the tool at the end of operation and in case of a wrong maneuver
- for operation it must be connected to an air compressed source of 6-10 bar

Code	Description	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
162	Pneumatic hydraulic pump	300	160	200	4	400x160x350	SC

ELECTRO HYDRAULIC PUMP

PRESSURE:max 700 bar

COMPATIBILITY: usable heads
- 283, 2833, 284, 284L, 286, 270 (crimping)
- 287, 288, 289 (cutting)
- 265, 267E, 263 (drilling)
- 26914 (cutting DIN rails)

DRIVE: accident-prevention foot control

- high pressure flexible tube with quick coupling female connector with automatic locking
- automatic end-of-work release device to guarantee punching quality
- automatic release device at the end of operation
- for operation it needs a 220V power supply

Code	Description	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
163	Electrohydraulic pump	700	520	270	41	NA	NA

CRIMPING HEADSTOCK · FOR PUMPS · UP TO 240 mm² (SERIES 83)

CRIMPING FORCE AT DIE LEVEL: 60 kN

DIES: 83 series

FIELD OF USE: terminals
- uninsulated from 10 to 300 mm²
- uninsulated class 6 from 10 to 185 mm²
- DIN standard from 10 to 240 mm²
- NFC standard from 4 to 240 mm²
- medium voltage from 25 to 300 mm²
- aluminum from 16 to 185 mm²
- bimetallic from 16 to 150 mm²
- bimetallic DIN from 16 to 185 mm²
- insulated from 10 to 95 mm²
- C shunt from 10 to 95 mm²
- end-sleeve from 50 to 150 mm²

- lateral snap opening for quick and easy die positioning
- with male quick coupling fitting with automatic locking
- for operation it must be combined with a pump with an operating pressure of 700 bar

Code	Description	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
2833	60 kN crimping headstock for pump	230	70	55	1,76	295x155x110	VA

SERIE83

CRIMPING HEADSTOCK · FOR PUMPS · UP TO 400 mm² (SERIES 84)

CRIMPING FORCE AT DIE LEVEL: 120 kN

DIES: 84 series

FIELD OF USE: terminals
- uninsulated from 10 to 400 mm² (300 mm² for DIN)
- uninsulated class 6 from 10 to 185 mm²
- medium voltage from 25 to 400 mm²
- aluminum from 16 to 240 mm²
- bimetallic from 16 to 300 mm²
- bimetallic DIN from 16 to 300 mm²
- insulated from 10 to 240 mm²
- C shunt from 10 to 150 mm²
- end-sleeve from 50 to 150 mm²

- "C" opening for easy joint crimping (the maximum conductor section depends on cable insulation thickness)
- bigger "C" opening in 284L version to crimp big section joints
- with male quick coupling fitting with automatic locking
- for operation it must be combined a pump with an operating pressure of 700 bar

Code	Description	Max "C" opening (mm)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
284	120 kN crimping headstock for pump	30	245	115	68	4	440x270x130	VA
284L	120 kN crimping headstock for pump	42	250	130	70	5,3	440x270x130	VA

SERIE84

CRIMPING HEADSTOCK · FOR PUMPS · UP TO 400 mm² (SERIES 86, SERIES 84)

CRIMPING FORCE AT DIE LEVEL: 120 kN

DIES: 84 series and 86 series

FIELD OF USE: 84 series for terminals
- uninsulated from 10 to 400 mm² (300 mm² for DIN)
- uninsulated class 6 from 10 to 185 mm²
- medium voltage from 25 to 400 mm²
- aluminum from 16 to 240 mm²
- bimetallic from 16 to 300 mm²
- bimetallic DIN from 16 to 300 mm²
- insulated from 10 to 240 mm²
- C shunt from 10 to 150 mm²
- end-sleeve from 50 to 150 mm²

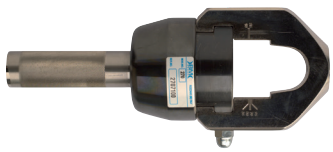
86 series for deep indent of terminals
- aluminum from 35 to 240 mm²

- with 86 series dies, it allows aluminum terminal to be crimped through deep indent
- 18694 adapter is required to use the 84 series dies
- with male quick coupling fitting with automatic locking
- for operation it must to be combined with a pump with an operating pressure of 700 bar

Code	Description	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
286	120 kN deep indent crimping headstock for pump	280	90	80	4,5	470x270x130	VA

SERIE86 SERIE84

CRIMPING HEADSTOCK · FOR PUMPS · UP TO 630 mm² (SERIES 70)



CRIMPING FORCE AT DIE LEVEL: 230 kN

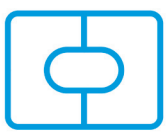
FIELD OF USE: terminals
- uninsulated terminals from 10 to 630 mm²
- C terminals da 16 a 185 mm²

- deep indent
- section adjustment nut
- for operation it must be combined with a pump with an operating pressure of 700 bar

Code	Description	Section (mm²)	Section (AWG/kcmil)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
270	230 kN crimping headstock for pump, with dies for uninsulated terminals from 10 to 630 mm²	10 ÷ 630	(8-1250)	350	120	120	7,5	400x150x150	VA

SERIE70

DIES SERIES 70



Code	Conductor sections for C shunts (mm²)	Terminal type
716	16-16, 25-25	for C shunts
735	35-35	for C shunts
770	50-50, 70-70	for C shunts
795	95-95, 120-120, 150-185	for C shunts

SERIE70

CUTTING HEADSTOCK · FOR PUMPS · UP TO 40 mm

- closed guillotine cut
- for operation it must be combined with a pump with an operating pressure of 700 bar

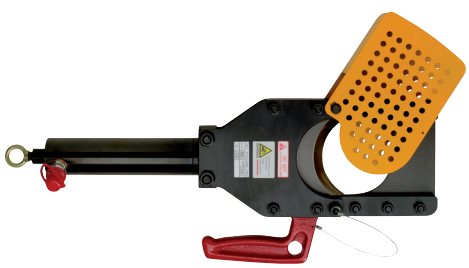
Code	Description	Cu/Al cable (Ø mm)	Steel cable (Ø mm)	Cu rod (Ø mm)	Al rod (Ø mm)	Iron rod (Ø mm)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
287	cable cutters / wire rope cutters tool head	40 max	20 max	25 max	25 max	16 max	310	110	70	4	450x180x100	SC

CUTTING HEADSTOCK · FOR PUMPS · UP TO 85 mm

- closed guillotine cut
- protections on the guillotine sides
- for operation it must be combined with a pump with an operating pressure of 700 bar

Code	Description	Cu/Al cable (Ø mm)	Steel cable (Ø mm)	Cu rod (Ø mm)	Al rod (Ø mm)	Iron rod (Ø mm)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
288	cutting tool head	85 max	-	-	-	-	450	170	100	7	450x190x120	SC

CUTTING HEADSTOCK · FOR PUMPS · UP TO 110 mm



- closed guillotine cut
- protections on the guillotine sides
- for operation it must be combined with a pump with an operating pressure of 700 bar

Code	Description	Cu/Al cable (Ø mm)	Steel cable (Ø mm)	Cu rod (Ø mm)	Al rod (Ø mm)	Iron rod (Ø mm)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
289	cutting tool head	100 max	-	-	-	-	550	190	120	9	470x270x130	SC

PUNCHING HEADSTOCK · FOR PUMPS

FORCE: 160 kN

PUNCHER DIES: T series, Q series and R series

PUNCH CONNECTION THREAD: M16 x 1.5

MAXIMUM PUNCHING THICKNESS: • iron sheet (max 3 mm)
• steel sheet (max 1.5 mm)

HOW TO USE: • insert the head into a pump multi-head tool
• make the hole on the sheet with the drill
• pass the guide pin through the pre-drilled hole
• assembly the die and the punch on both sides of the sheet
• perform the punching

Code	Description	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
265	Hydraulic punching headstock for pump	210	80	80	3	250x140x100	SC

BAR BENDING/DRILLING · HEADSTOCKS · FOR PUMPS

FIELD OF USE: • bending and punching of copper bars sized 12x110 mm max

FEATURES: • equipped with a protractor that guarantees the uniformity of the operations with bars of same dimensions

Code	Description	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
267	Bar bending/drilling headstock for BM 1600 hydraulic foot-pump and BM 162 pneumatic/hydraulic pump	580	520	300	6	600x500x500	SC
267E	Bar bending/drilling headstock for BM 163 electrohydraulic pump	580	520	300	6	600x500x500	SC

PUNCHERS FOR BAR BENDING-DRILLING HEADSTOCK

COMPATIBILITY: BM 267 and BM 267E

SUITABLE FOR: punching

Code	Hole shape	Through hole	
26708	round	9	SA
26710	round	11	SA
26714	round	14	SA
26718	round	18	SA
26722	round	22.5	SA
26711	eyelet	11 x 17	SA
26715	eyelet	9 x 15	SA
26719	eyelet	13.5 x 19	SA
26717	eyelet	17.5 x 22	SA

BMI
GROUP

ELECTRICAL TAPES

PVC ELECTRICAL TAPE pag. 290

EPR SELF-AMALGAMATING ELECTRICAL TAPE pag. 293

ELECTRICAL TAPE · PVC · 0.15 THICKNESS

MATERIAL: PVC
RESISTANT TO: acids, weathering, corrosion, alkalis, oil, humidity
OPERATING TEMPERATURE: 0°C - +90°C
TENSILE STRENGTH: 28 N/cm equivalent to 18.6 N/mm²
ELONGATION: 200 %
ADHESION TO STEEL: 2.2 N/cm
ADHESION TO BACKING: 2 N/cm
DIELECTRIC STRENGTH: 45 kV/mm
ACCORDING TO STD.: IEC 60454-2
FLAMMABILITY: flame retardant
CLASSIFICATION: EN 60454-3-1-5/F-PVCP/90
ACCORDING TO STD.: IEC 60454-2

Code	Color	Thickness (mm)	Height (mm)	Length (m)	
ESB1525BI	White	0,15			10/100
ESB1525BL	Blue	0,15			10/100
ESB1525GI	Yellow	0,15			10/100
ESB1525GR	Grey	0,15			10/100
ESB1525GV	YellowGreen	0,15	15	25	10/100
ESB1525MA	Brown	0,15			10/100
ESB1525NE	Black	0,15			10/100
ESB1525RO	Red	0,15			10/100
ESB1525VE	Green	0,15			10/100
ESB1925BI	White	0,15			10/100
ESB1925BL	Blue	0,15			10/100
ESB1925GI	Yellow	0,15			10/100
ESB1925GR	Grey	0,15			10/100
ESB1925GV	YellowGreen	0,15	19	25	10/100
ESB1925MA	Brown	0,15			10/100
ESB1925NE	Black	0,15			10/100
ESB1925RO	Red	0,15			10/100
ESB1925VE	Green	0,15			10/100
ESB2525BI	White	0,15			8/80
ESB2525BL	Blue	0,15			8/80
ESB2525GI	Yellow	0,15			8/80
ESB2525GR	Grey	0,15			8/80
ESB2525GV	YellowGreen	0,15	25	25	8/80
ESB2525MA	Brown	0,15			8/80
ESB2525NE	Black	0,15			8/80
ESB2525RO	Red	0,15			8/80
ESB2525VE	Green	0,15			8/80
ESB1510BI	White	0,15			10/200
ESB1510BL	Blue	0,15			10/200
ESB1510GI	Yellow	0,15			10/200
ESB1510GR	Grey	0,15			10/200
ESB1510GV	YellowGreen	0,15	15	10	10/200
ESB1510MA	Brown	0,15			10/200
ESB1510NE	Black	0,15			10/200
ESB1510RO	Red	0,15			10/200
ESB1510VE	Green	0,15			10/200

FLAME RETARDANT

ELECTRICAL TAPE · PVC · 0.18 THICKNESS

MATERIAL: PVC
RESISTANT TO: acids, weathering, corrosion, alkalis, oil, humidity
OPERATING TEMPERATURE: 0°C - +80°C
TENSILE STRENGTH: 28 N/cm equivalent to 15.5 N/mm²
ELONGATION: 200 %
ADHESION TO STEEL: 2.2 N/cm
ADHESION TO BACKING: 2.2 N/cm
DIELECTRIC STRENGTH: 7000 V equivalent to 38 kV/mm
ACCORDING TO STD.: ASTM-D-1000
FLAMMABILITY: flame retardant
ACCORDING TO STD.: UL 510

Code	Color	Thickness (mm)	Height (mm)	Length (m)	
ESC1920NE	Black	0,18	19	20	10/100

LISTED file n° E 492005

FLAME RETARDANT

ELECTRICAL TAPE · PVC · 0.18 THICKNESS FOR LOW AND HIGH TEMPERATURES

MATERIAL: PVC
HIGHLY RESISTANT TO: acids, weathering, corrosion, alkalis, oil, humidity
OPERATING TEMPERATURE: -18°C - +105°C
TENSILE STRENGTH: 35 N/cm equivalent to 19.4 N/mm²
ELONGATION: 300 %
ADHESION TO STEEL: 3.1 N/cm
ADHESION TO BACKING: 2.7 N/cm
DIELECTRIC STRENGTH: 10000 V equivalent to 55,5 kV/mm
ACCORDING TO STD.: ASTM-D-1000
FLAMMABILITY: flame retardant
ACCORDING TO STD.: UL 510

Code	Color	Thickness (mm)	Height (mm)	Length (m)	
ETA1920NE	Black	0,18	19	20	1/100

UL LISTED file n° E 492005 VDE +105°C -18°C FLAME RETARDANT

ELECTRICAL TAPE · EPR SELF-AMALGAMATING

MATERIAL: EPR
RESISTANT TO: ozone, UV rays
EMERGENCY OVERLOAD TEMPERATURE: 130 °C
ACCORDING TO STD.: ASTM-D-4388
EXCELLENT RESISTANCE TO: chemicals, corrosion, humidity
OPERATING TEMPERATURE: -40°C - +90°C
TENSILE STRENGTH: 2.4 N/mm² (350psi)
ELONGATION: 750 %
DIELECTRIC STRENGTH: 29.5 kV/mm (750 V/mil)
ACCORDING TO STD.: ASTM-D-4325

Code	Color	Thickness (mm)	Height (mm)	Length (m)	
EAB1909NE	Black	0,76	19	9	1/60

APPLICAZIONI
Rivestimento e isolamento di giunzioni di cavi di alimentazione sino a 69 kV.
Coni isolanti e rivestimento di terminali di cavi di alimentazione sino a 35 kV.

UV RESISTANT

THW
THW

CONDUIT FIXINGS

IP67 ACCESORIES	pag. 296
IP40 ACCESORIES	pag. 299
CONDUIT FIXING	pag. 300
ACCESSORIES FOR SPIRAL CONDUITS	pag. 301

IP67 ACCESSORIES

OUR STRENGTH POINT
What makes BM IP67 fixings stand out from the crowd is the **double lip seal** that guarantees unique advantages in all phases of the project: choice of material, installation, use, modification of the system, and material recovery.

1. CHOICE OF MATERIAL: conduit fixings can be used with any conduit that complies with the standards. The gasket adapts to the variations of shape and diameter typical of plastic tube bars in the range allowed by the standard.

2. INSTALLATION: the conduit's insertion with a slight pressure allows for a fast and effortless connection. After the insertion, the gasket keeps the conduit hanging, leaving the installer's hands free for other operations.

4. MODIFICATIONS: the disengagement with a slight traction and rotation allows rapid changes to the system or the recovery of the fixing. The gasket keeps the sealing characteristics unchanged over time so that the fixing can be reused.

3. OPERATION: the gasket allows for thermal expansion in the length of conduits within a range from -5°C to +60°C.

CE IP67

For more information about this product check out the following pages.

IP67 ACCESSORIES · CONDUIT-BOX FITTING · TS

It connects a rigid conduit to a box or board. Complete with nut and flat gasket.
MATERIAL: rigid PVC
PITCH: metric
RESISTANCE TO SHOCK: class 3 (>2 kg from 10 cm at -5 °C)
MIN. TEMPERATURE: class 2 (-5 °C)
MAX. TEMPERATURE: class 1 (+60°C)
RESISTANCE TO FIRE: self-extinguishing
GLOW WIRE TEST: pass at 850 °C
PROTECTION GRADE: IP67
STANDARD: EN 61386-1, EN 61386-21

Code	Color	Metric thread (EN 60423)	Conduit diameter (mm)	
TP7TS16	Grey RAL 7035	M 16 x 1.5	16	10/250
TP7TS20	Grey RAL 7035	M 20 x 1.5	20	10/400
TP7TS25	Grey RAL 7035	M 25 x 1.5	25	10/300
TP7TS32	Grey RAL 7035	M 32 x 1.5	32	10/200
TP7TS40	Grey RAL 7035	M 40 x 1.5	40	5/40
TP7TS50	Grey RAL 7035	M 50 x 1.5	50	5/25

CE

IP67

IP67 ACCESSORIES · 90 DEGREE ELBOW CONDUIT · CR

It connects two rigid conduits of the same diameter, forming a 90 degree curve.
MATERIAL: rigid PVC
RESISTANCE TO SHOCK: class 3 (>2 kg from 10 cm at -5 °C)
MIN. TEMPERATURE: class 2 (-5 °C)
MAX. TEMPERATURE: class 1 (+60°C)
RESISTANCE TO FIRE: self-extinguishing
GLOW WIRE TEST: pass at 850 °C
PROTECTION GRADE: IP67
STANDARD: EN 61386-1, EN 61386-21

Code	Color	Conduit diameter (mm)	
TP7CR16	Grey RAL 7035	16	10/100
TP7CR20	Grey RAL 7035	20	10/140
TP7CR25	Grey RAL 7035	25	10/90
TP7CR32	Grey RAL 7035	32	5/50
TP7CR40	Grey RAL 7035	40	5/50
TP7CR50	Grey RAL 7035	50	5/30

IP67

IP67 ACCESSORIES · CONDUIT-CONDUIT FITTING · TT

It connects two rigid conduits of the same diameter.
MATERIAL: rigid PVC
RESISTANCE TO SHOCK: class 3 (>2 kg from 10 cm at -5 °C)
MIN. TEMPERATURE: class 2 (-5 °C)
MAX. TEMPERATURE: class 1 (+60°C)
RESISTANCE TO FIRE: self-extinguishing
GLOW WIRE TEST: pass at 850 °C
PROTECTION GRADE: IP67
STANDARD: EN 61386-1, EN 61386-21

Code	Color	Conduit diameter (mm)	
TP7TT16	Grey RAL 7035	16	10/180
TP7TT20	Grey RAL 7035	20	10/300
TP7TT25	Grey RAL 7035	25	10/220
TP7TT32	Grey RAL 7035	32	10/120
TP7TT40	Grey RAL 7035	40	5/50
TP7TT50	Grey RAL 7035	50	5/40

IP67

IP67 ACCESSORIES · CONDUIT-SHEATHING FITTING · TG · SAME DIAMETER

It connects a rigid conduit to a spiral sheathing.
The internal diameter of the system is the same of the sheathing.

MATERIAL: rigid PVC

RESISTANCE TO SHOCK: class 3 (>2 kg from 10 cm at -5 °C)

MIN. TEMPERATURE: class 2 (-5 °C)

MAX. TEMPERATURE: class 1 (+60°C)

RESISTANCE TO FIRE: self-extinguishing

GLOW WIRE TEST: pass at 850 °C

PROTECTION GRADE: IP67 conduit, IP65 sheathing

STANDARD: EN 61386-1, EN 61386-21

Code	Color	Conduit diameter (mm)	Sheathing diameter (mm)	
TP7TG16	Grey RAL 7035	16	16	10/100
TP7TG20	Grey RAL 7035	20	20	10/160
TP7TG25	Grey RAL 7035	25	25	10/120
TP7TG32	Grey RAL 7035	32	32	5/70
TP7TG40	Grey RAL 7035	40	40	5/40
TP7TG50	Grey RAL 7035	50	50	5/20

CE

IP67

IP67 ACCESSORIES · CONDUIT-SHEATHING FITTING · TG · REDUCED DIAMETER

It connects a rigid conduit to a spiral sheathing.
The internal diameter of the system is the same of the sheathing.

MATERIAL: rigid PVC

RESISTANCE TO SHOCK: class 3 (>2 kg from 10 cm at -5 °C)

MIN. TEMPERATURE: class 2 (-5 °C)

MAX. TEMPERATURE: class 1 (+60°C)

RESISTANCE TO FIRE: self-extinguishing

GLOW WIRE TEST: pass at 850 °C

PROTECTION GRADE: IP67 conduit, IP65 sheathing

STANDARD: EN 61386-1, EN 61386-21

Code	Color	Conduit diameter (mm)	Sheathing diameter (mm)	
TP7TG16/12	Grey RAL 7035	16	12	10/100
TP7TG20/16	Grey RAL 7035	20	16	10/160
TP7TG25/20	Grey RAL 7035	25	20	10/120

CE

IP67

IP40 ACCESSORIES · JUNCTION SLEEVE · MA

Adaptable to conduit imperfections (oval shape, increased/reduced diameter within standard range).
Easy and full insertion up to half-length to facilitate the passage of cables and probes.
Better sealing thanks to its Trilo System joint.
New design that allows for seamless joints between conduits.

MATERIAL: rigid PVC
RESISTANCE TO SHOCK: class 3 (>2 kg from 10 cm at -5 °C)
MIN. TEMPERATURE: class 2 (-5 °C)
MAX. TEMPERATURE: class 1 (+60°C)
RESISTANCE TO FIRE: self-extinguishing
GLOW WIRE TEST: pass at 850 °C
PROTECTION GRADE: IP40
STANDARD: EN 61386-1, EN 61386-21

Code	Color	Conduit diameter (mm)	
TP4MA16	Grey RAL 7035	16	20/300
TP4MA20	Grey RAL 7035	20	20/400
TP4MA25	Grey RAL 7035	25	20/240
TP4MA32	Grey RAL 7035	32	10/120
TP4MA40	Grey RAL 7035	40	5/80
TP4MA50	Grey RAL 7035	50	5/50

CE

IP40

IP40 ACCESSORIES · 90 DEGREE ELBOW CONDUIT · CU

90 degree elbow conduit, narrow radius, for rigid conduits.
MATERIAL: rigid PVC
RESISTANCE TO SHOCK: class 3 (>2 kg from 10 cm at -5 °C)
MIN. TEMPERATURE: class 2 (-5 °C)
MAX. TEMPERATURE: class 1 (+60°C)
RESISTANCE TO FIRE: self-extinguishing
GLOW WIRE TEST: pass at 850 °C
PROTECTION GRADE: IP40
STANDARD: EN 61386-1, EN 61386-21

Code	Color	Conduit diameter (mm)	
TP4CU16	Grey RAL 7035	16	10/180
TP4CU20	Grey RAL 7035	20	10/220
TP4CU25	Grey RAL 7035	25	10/220
TP4CU32	Grey RAL 7035	32	5/120
TP4CU40	Grey RAL 7035	40	5/60
TP4CU50	Grey RAL 7035	50	5/35

CE

IP40

CONDUITS FIXINGS · SPRING CLIP SADDLE · FS

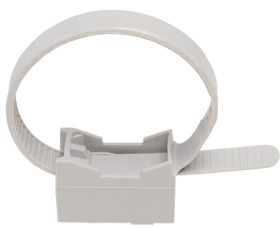
Clip support for conduits. It is equipped with side mounting for installation in series and grooves for installation in line.

MATERIAL: with ABS

RESISTANCE TO FIRE: self-extinguishing

Code	Color	Conduit diameter (mm)	
TPZFS16	Grey RAL 7035	16	100/800
TPZFS20	Grey RAL 7035	20	100/1600
TPZFS25	Grey RAL 7035	25	50/900
TPZFS32	Grey RAL 7035	32	50/800
TPZFS40	Grey RAL 7035	40	25/200
TPZFS50	Grey RAL 7035	50	25/150

CONDUITS FIXINGS · COLLAR CLAMP FASTENER · FF



Collar clamp fastener.

MATERIAL: with polyamide

RESISTANCE TO FIRE: self-extinguishing

Code	Color	Conduit diameter (mm)	
TPZFF16/32	Grey RAL 7035	16 ÷ 32	100/1000
TPZFF40/63	Grey RAL 7035	40 ÷ 63	50/400

IP65 ACCESSORIES FOR SPIRAL CONDUITS · SWIVEL FITTING · METRIC THREAD · RGM/RGMN

Swivel straight fitting for spiral conduits.
Supplied with metric thread fixing nut.

MATERIAL: fireproof polypropylene

PITCH: metric

RESISTANCE TO SHOCK: class 3 (>2 kg from 10 cm at -5 °C)

MIN. TEMPERATURE: class 2 (-5 °C)

MAX. TEMPERATURE: class 1 (+60°C)

RESISTANCE TO FIRE: self-extinguishing

GLOW WIRE TEST: pass at 850 °C

PROTECTION GRADE: IP65

STANDARD: EN 61386-1, EN 61386-23

Code	Color	Metric thread (EN 60423)	Sheathing diameter (mm)	
TP5RGM10	Grey RAL 7035	M 12 x 1.5	10	10/150
TP5RGMN10	Black RAL 9005		10	10/150
TP5RGM12	Grey RAL 7035	M 16 x 1.5	12	10/150
TP5RGMN12	Black RAL 9005		12	10/150
TP5RGM16	Grey RAL 7035	M 20 x 1.5	16	10/100
TP5RGMN16	Black RAL 9005		16	10/100
TP5RGM20	Grey RAL 7035	M 25 x 1.5	20	10/70
TP5RGMN20	Black RAL 9005		20	10/70
TP5RGM25	Grey RAL 7035	M 32 x 1.5	25	10/40
TP5RGMN25	Black RAL 9005		25	10/40
TP5RGM32	Grey RAL 7035	M 40 x 1.5	32	5/25
TP5RGMN32	Black RAL 9005		32	5/25
TP5RGM40	Grey RAL 7035	M 50 x 1.5	40	5/20
TP5RGMN40	Black RAL 9005		40	5/20
TP5RGM50	Grey RAL 7035	M 63 x 1.5	50	5/15
TP5RGMN50	Black RAL 9005		50	5/15

CE

IP65

IP65 ACCESSORIES FOR SPIRAL CONDUITS · SWIVEL FITTING · PG THREAD · RGP/RGPN

Swivel straight fitting for spiral conduits.
Supplied with PG thread fixing nut.

MATERIAL: fireproof polypropylene

PITCH: PG

RESISTANCE TO SHOCK: class 3 (>2 kg from 10 cm at -5 °C)

MIN. TEMPERATURE: class 2 (-5 °C)

MAX. TEMPERATURE: class 1 (+60°C)

RESISTANCE TO FIRE: self-extinguishing

GLOW WIRE TEST: pass at 850 °C

PROTECTION GRADE: IP65

STANDARD: EN 61386-1, EN 61386-23

Code	Color	PG thread (DIN 40430)	Sheathing diameter (mm)	
TP5RGP10	Grey RAL 7035	PG 9	10	10/160
TP5RGPN10	Black RAL 9005		10	10/160
TP5RGP12	Grey RAL 7035	PG 11	12	10/160
TP5RGPN12	Black RAL 9005		12	10/160
TP5RGP12/13	Grey RAL 7035	PG 13.5	12	10/160
TP5RGPN12/13	Black RAL 9005		12	10/160
TP5RGP14	Grey RAL 7035		14	10/100
TP5RGPN14	Black RAL 9005		14	10/100
TP5RGP16	Grey RAL 7035	PG 11	16	10/100
TP5RGPN16	Black RAL 9005		16	10/100
TP5RGP16/13	Grey RAL 7035	PG 13.5	16	10/100
TP5RGPN16/13	Black RAL 9005		16	10/100
TP5RGP16/16	Grey RAL 7035	PG 16	16	10/100
TP5RGPN16/16	Black RAL 9005		16	10/100
TP5RGP20	Grey RAL 7035	PG 21	20	10/70
TP5RGPN20	Black RAL 9005		20	10/70
TP5RGP22	Grey RAL 7035		22	10/60
TP5RGPN22	Black RAL 9005		22	10/60
TP5RGP25	Grey RAL 7035	PG 29	25	10/50
TP5RGPN25	Black RAL 9005		25	10/50
TP5RGP28	Grey RAL 7035		28	10/40
TP5RGPN28	Black RAL 9005		28	10/40
TP5RGP32	Grey RAL 7035	PG 36	32	5/20
TP5RGPN32	Black RAL 9005		32	5/20
TP5RGP35	Grey RAL 7035		35	5/20
TP5RGPN35	Black RAL 9005		35	5/20

CE

IP65

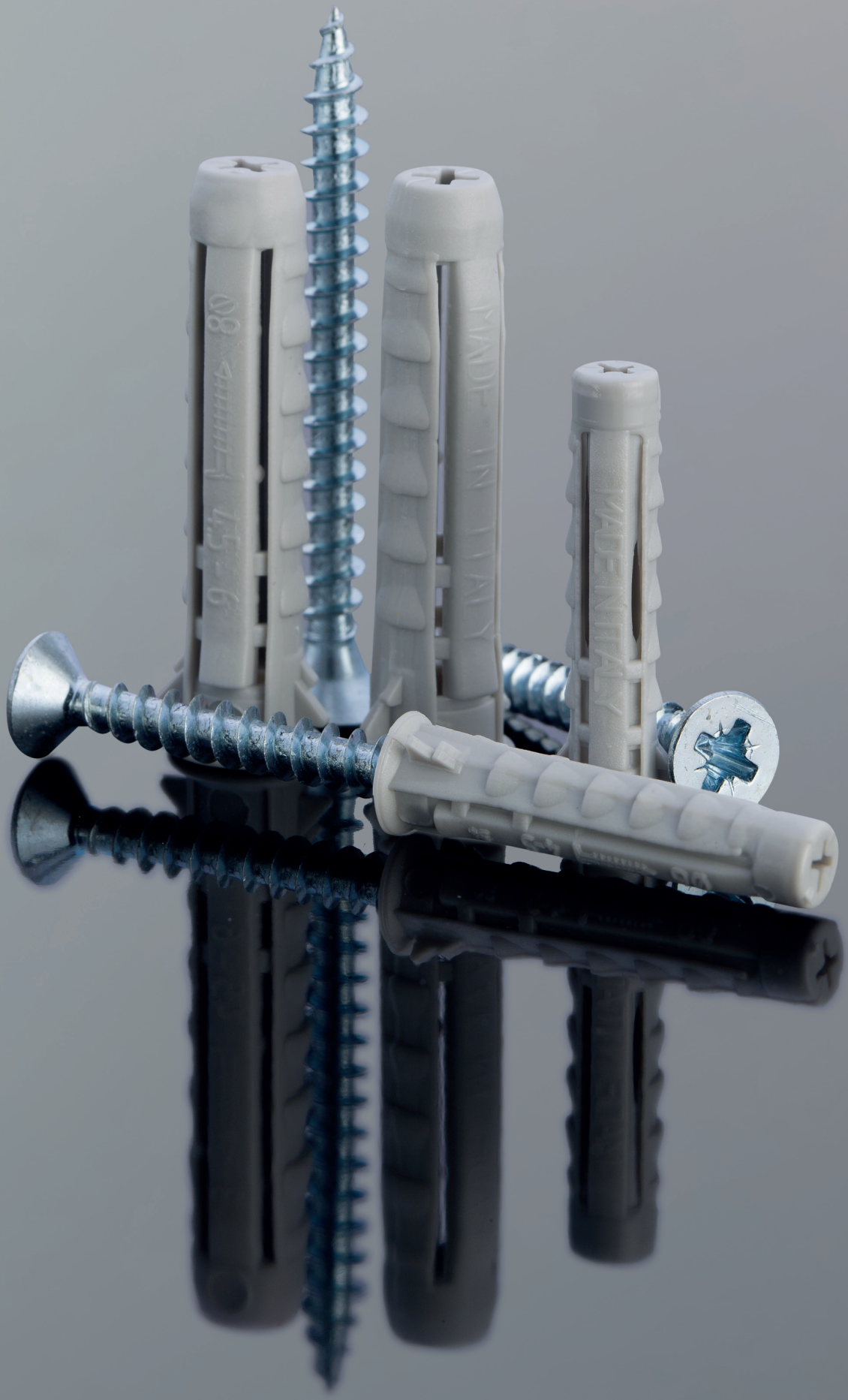
IP65 ACCESSORIES FOR SPIRAL CONDUITS · SWIVEL FITTING · GAS THREAD · RGG/RGGN

Supplied with GAS thread fixing nut.
MATERIAL: fireproof polypropylene
PITCH: gas
RESISTANCE TO SHOCK: class 3 (>2 kg from 10 cm at -5 °C)
MIN. TEMPERATURE: class 2 (-5 °C)
MAX. TEMPERATURE: class 1 (+60°C)
RESISTANCE TO FIRE: self-extinguishing
GLOW WIRE TEST: pass at 850 °C
PROTECTION GRADE: IP65
STANDARD: EN 61386-1, EN 61386-23

Code	Color	Gas thread (ISO 228/1)	Sheathing diameter (mm)	
TP5RGG10	Grey RAL 7035	G 1/4"	10	10/140
TP5RGGN10	Black RAL 9005		10	10/140
TP5RGG12	Grey RAL 7035	G 3/8"	12	10/120
TP5RGGN12	Black RAL 9005		12	10/120
TP5RGG14	Grey RAL 7035	G 1/2"	14	10/100
TP5RGGN14	Black RAL 9005		14	10/100
TP5RGG16	Grey RAL 7035		16	10/100
TP5RGGN16	Black RAL 9005		16	10/100
TP5RGG20	Grey RAL 7035	G 3/4"	20	10/70
TP5RGGN20	Black RAL 9005		20	10/70
TP5RGG22	Grey RAL 7035		22	10/60
TP5RGGN22	Black RAL 9005		22	10/60
TP5RGG25	Grey RAL 7035	G 1"	25	10/40
TP5RGGN25	Black RAL 9005		25	10/40
TP5RGG28	Grey RAL 7035		28	10/40
TP5RGGN28	Black RAL 9005		28	10/40
TP5RGG32	Grey RAL 7035	G 1" 1/4	32	5/25
TP5RGGN32	Black RAL 9005		32	5/25
TP5RGG35	Grey RAL 7035		35	5/20
TP5RGGN35	Black RAL 9005		35	5/20
TP5RGG40	Grey RAL 7035	G 1" 1/2	40	5/20
TP5RGGN40	Black RAL 9005		40	5/20
TP5RGG50	Grey RAL 7035	G 2"	50	5/15
TP5RGGN50	Black RAL 9005		50	5/15

CE

IP65


MADE IN ITALY

FIXINGS

LIGHT FIXINGS pag. 307

MANUAL NAILING pag. 310

QUICK GUIDE TO FIXINGS

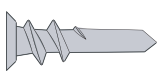
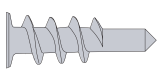
To facilitate and above all to make fixings quicker and safer, the quick guide provides the solution to any problem or doubt related to fixing. Light fixings are versatile and suitable for several applications on different supports. The tables take into account a number of factors, including support materials, applied loads, type of installation, types of anchor, drilling methods, and anchoring depth, all essential for determining the correct anchor or dowel.

LIGHT FIXINGS

UNIVERSAL

Super-V EVO		●	●	●	●	●	●	○	○

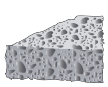
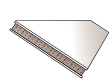
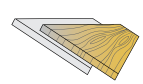
PLASTERBOARD

VP							●	
VM							●	

● Suitable application

○ Partially suitable application

TYPE OF MATERIALS

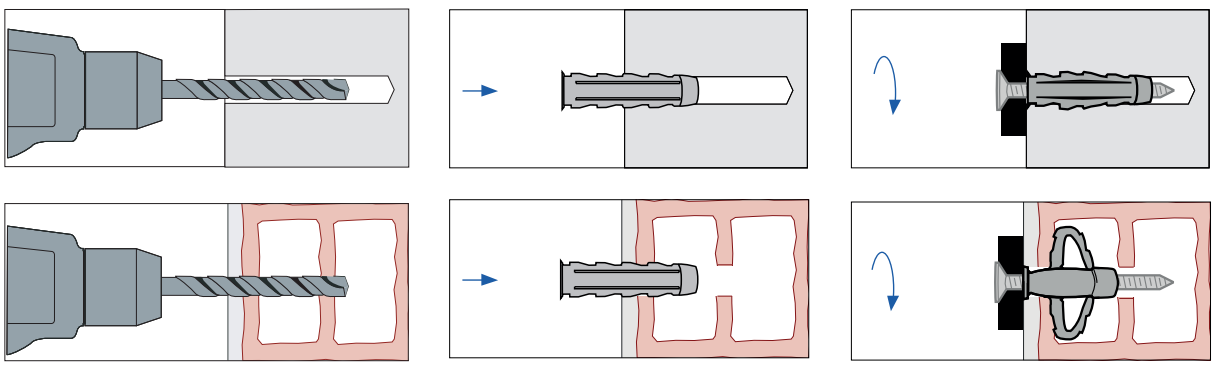
SOLID			PERFORATED		LOW RESISTANCE		
Solid bricks	Concrete	Natural stone	Perforated brick	Perforated blocks	Cellular concrete	Plasterboard	Panels/slabs
							

SUPER-V EVO UNIVERSAL WALL PLUGS

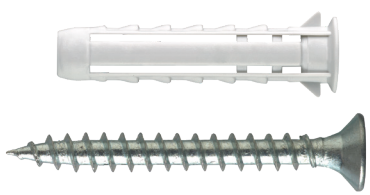
Thanks to its ability to adapt to different types of materials, the innovative **Super-V EVO** nylon plug allows extremely high holding with all-around security.
The particular inner profile and the technopolymer used allows the use of wood, chipboard and self-tapping screws.
The design has been thoroughly engineered to prevent the plug from penetrating too much or rotating inside the hole during installation.
The **Super-V EVO** plug comes complete with a wide range of screws for chipboard, in different shapes and sizes, to solve any fixing issues in the various areas of use and to ensure highly reliable performance.

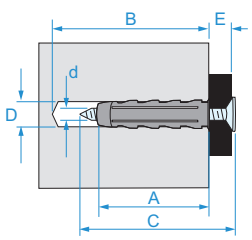
Super VEVO

FIXING STEPS



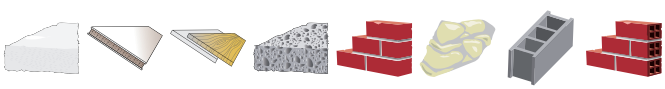
UNIVERSAL WALL PLUGS · SUPER-V EVO · WITH FLAT COUNTERSUNK HEAD PZ SCREW





WALL PLUG TYPE: Super-V EVO universal wall plugs
WALL PLUG MATERIAL: high resistance polyamide
WALL PLUG COLOR: grey
SCREW MATERIAL: galvanized steel
INSTALLATION TYPE: non-through

Code	D (mm)	A (mm)	B (mm)	d x C (mm)	E max (mm)	
F0011	5	25	35	4 x 30	5	100/3000
F0012	6	30	40	4,5 x 40	10	100/3000
F0013	8	40	50	5 x 50	10	50/1500



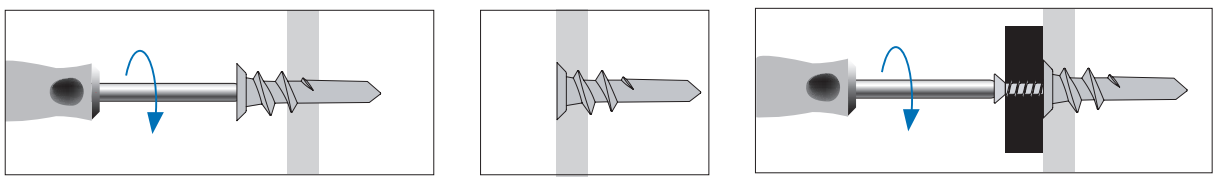
Super VEVO

VP PLASTERBOARD ANCHOR

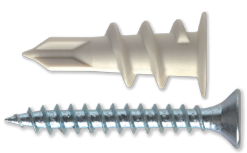
VP polyamide anchors are ideal for light fixings on plasterboard.
Thanks to their small size, there is no need for a large air space behind the plasterboard wall.
It is not suitable for fixings on fibre-cement panels and on plasterboard with synthetic coatings.
For applications on panels over 15 mm thick, you need to drill a pilot hole.

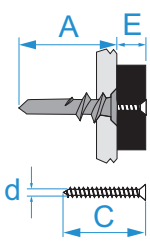
VP

FIXING STEPS



PLASTERBOARD ANCHOR · VP · WITH FLAT COUNTERSUNK HEAD PZ SCREW





WALL PLUG TYPE: VP wall plugs for plasterboard
WALL PLUG MATERIAL: high resistance polyamide
SCREW MATERIAL: galvanized steel
INSTALLATION TYPE: non-through

Code	A (mm)	d x C (mm)	E max (mm)	
F1311	33	4,5 x 35	12	100/2000

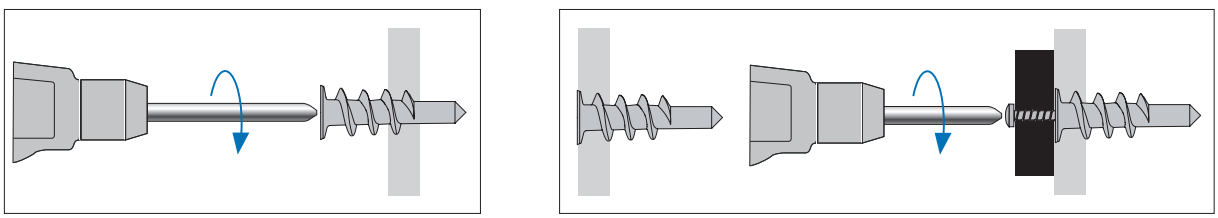
VP

VM PLATERBOARD ANCHOR

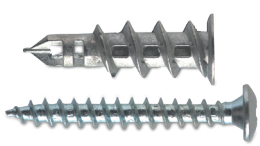
The VM metal anchor is ideal for fixings on plasterboard panels and sheets.
Thanks to its small size, there is no need for a large air space behind the plasterboard wall.
It is not suitable for fixings on fibre-cement panels and on plasterboard with synthetic coatings.
For applications on panels over 15 mm thick, you need to drill a pilot hole.

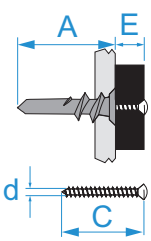
VM

FIXING STEPS



PLASTERBOARD ANCHOR · VM · WITH FLAT HEAD PZ SCREW





WALL PLUG TYPE: VM wall plugs for plasterboard
WALL PLUG MATERIAL: zinc alloy
SCREW MATERIAL: galvanized steel
INSTALLATION TYPE: non-through

Code	A (mm)	d x C (mm)	E max (mm)	
F1411	38	4,5 x 30	12	100/2000

VM

MANUAL NAILING

IMPACT NAIL

SUITABLE FOR: fixing clips or pre-perforated steel bands without pre-drilling

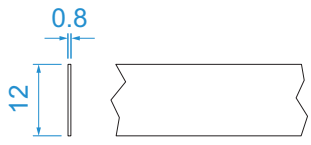
Code	Length (cm)	Diameter (mm)	
F0531	17	4	200/2000

IMPACT NAIL SETTING TOOL

SUITABLE FOR: the application of percussion nails directly into the concrete. Housing with nail holding ball. Robust and ergonomic bumper grip for maximum percussion safety. Head treated with special anti-splinter quenching

Code	Weight (g)	
F0521	520	5/5

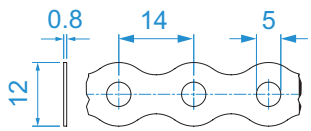
TEXTILE BAND



MATERIAL: polypropylene
SUITABLE FOR: fixing pipes on the floor or hanging from the ceiling

Code	Length (m)	Breaking load (daN)	
F0511	10	80	10/10

PRE-PERFORATED METAL BAND



MATERIAL: metal
SUITABLE FOR: fixing pipes on the floor or hanging from the ceiling

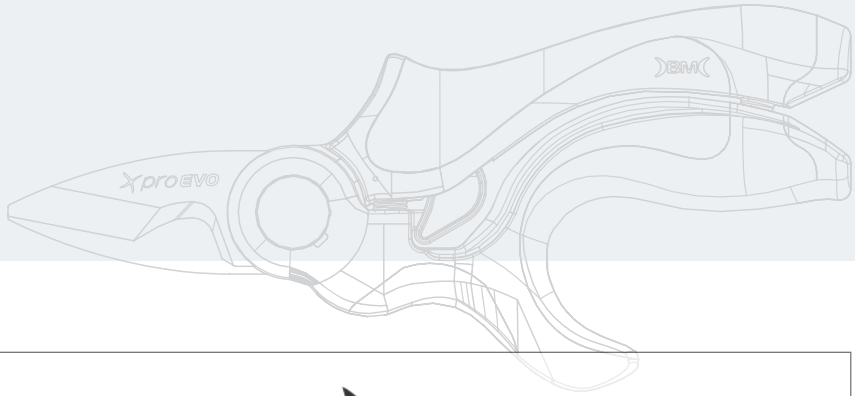
Code	Length (m)	Breaking load (daN)	
F0501	10	200	10/10

FISKARS

TOOLS

SCISSORS AND CUTTING TOOLS	pag. 315
SCREWDRIVERS	pag. 319
VOLTAGE TESTER	pag. 325
HIGH INSULATION PLIERS	pag. 326
DRILLING TOOLS	pag. 329
WRENCHES	pag. 331
HAMMERS AND SUCTION LIFTER	pag. 334
MEASURING TOOLS	pag. 335
TOOL CASES	pag. 336

X-PRO EVO SCISSORS



The X-PRO EVO scissors come with an innovative design, featuring lines and volumes that perfectly follow the hand's anatomy and posture, ensuring a better grip and greater comfort while cutting.

X-pro EVO

Body made of bi-component material that combines a soft touch material and a non-slip surface for a comfortable and safe grip

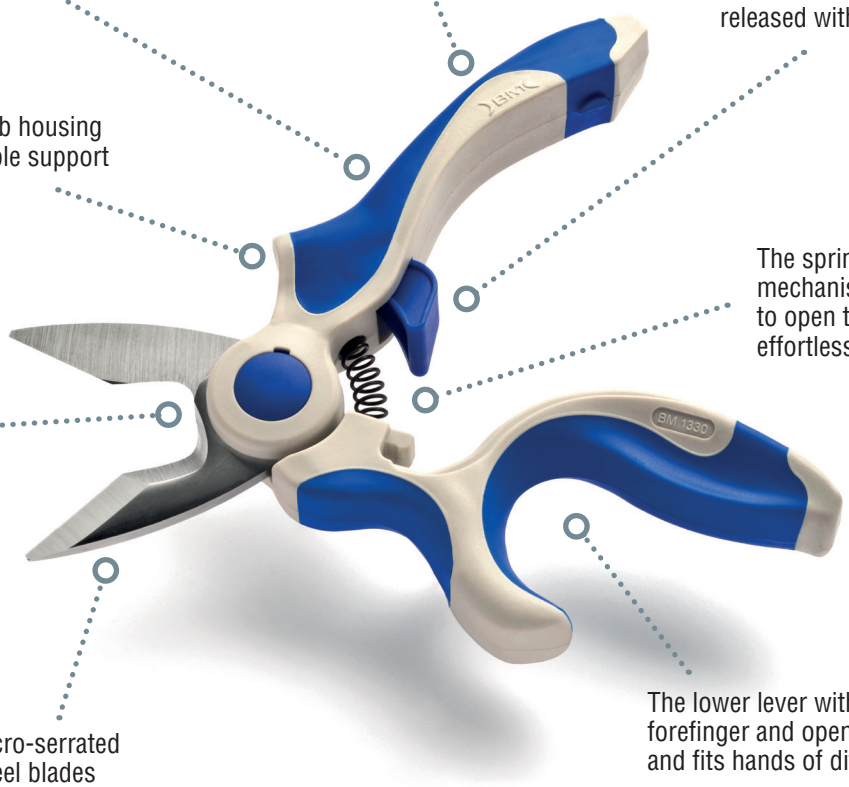
Rugged handle with steel blades running through it all its length

The convenient closing clip can be released with a single gesture

The upper lever with thumb housing makes for more comfortable support

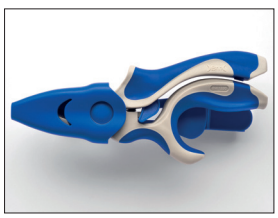
The spring opening mechanism allows you to open the scissors effortlessly

Special profile suitable for cutting and stripping cables. Cutting up to 50 mm^2



Antiskid micro-serrated stainless steel blades

The lower lever with housing for the forefinger and open eyelet is comfortable and fits hands of different sizes



Safety case with adjustable clip for fastening to the belt

Ergonomic handle, ideal for extended use without fatigue

reddot design award
honourable mention 2013

SCISSORS · X-PRO EVO

• innovative design with lines and volumes that ensure excellent ergonomics.
• thanks to the special open loop shape of the lower level it fits into hands of different sizes
• body in bi-component material that alternates soft touch material with a non-slip surface for a comfortable and safe grip, which allows cutting with less effort
• sturdy handle, the steel blades run along its entire length
• the spring opening system allows the scissors to be opened effortlessly for effective stripping and cutting of the cables. The blade locking device is released with a single gesture
• antiskid micro-serrated blades
• blades with variable geometry profiles enables you to cut and strip copper and aluminium cables up to 50 mm²

HANDLE MATERIAL: bi-component plastic material

BLADE MATERIAL: stainless steel

Code	With safety case	Length (mm)	Weight (g)	
1330	√	160	125	1/20

reddot design award
honourable mention 2013

SCISSORS · X-PRO

• body in bi-component material that alternates soft touch material with a non-slip surface for a comfortable and safe grip, which allows cutting with less effort
• the spring opening system allows the scissors to be opened effortlessly for effective stripping and cutting of the cables. The blade locking device is released with a single gesture
• antiskid micro-serrated blades

HANDLE MATERIAL: bi-component plastic material

BLADE MATERIAL: stainless steel

Code	With safety case	Length (mm)	Weight (g)	
1325	√	153	98	1/12

SCISSORS · HEAVY DUTY

• robust design
• antiskid micro-serrated blades
• anti loosening pin
• wire-stripping nick

HANDLE MATERIAL: bi-component plastic material

BLADE MATERIAL: 57-60 HRC hardened stainless steel

Code	Length (mm)	Weight (g)	
1320	145	80	1/12

SCISSORS · MAXI GRIP

• innovative design with flat top eyelet that guarantees a greater cutting lever
• antiskid micro-serrated blades
• measuring notches in cm on the handle

HANDLE MATERIAL: bi-component plastic material

BLADE MATERIAL: 57-60 HRC hardened stainless steel

Code	Length (mm)	Weight (g)	
1310	151	75	1/12

SCISSORS · EXTRA LIGHT

- compact structure with light and universal structure
- antiskid micro-serrated blades
- anti loosening pin

HANDLE MATERIAL: plastic material

BLADE MATERIAL: 57-60 HRC hardened stainless steel

Code	Length (mm)	Weight (g)	
1332	143	55	1/24

CABLE CUTTER

- for copper and aluminum cables
- robust and ergonomic design
- adjustable anti loosening pin
- blade locking device
- return spring

HANDLE MATERIAL: bi-component plastic material

BLADE MATERIAL: 52-54 HRC hardened stainless steel

Code	Max cable section (mm²)	Length (mm)	Weight (g)	
1335	35	183	149	1/12

UNIVERSAL SHEARS

- the spring opening system allows the scissors to be opened effortlessly for effective stripping and cutting of the cables. The blade locking device is released with a single gesture
- antiskid micro-serrated blades
- anti loosening pin
- integrated wire stripper for sections of 1, 1.5 and 2 mm². To carry out the operation, simply insert the wire in the corresponding section and press the handle

HANDLE MATERIAL: bi-component plastic material

BLADE MATERIAL: 52-54 HRC hardened stainless steel

Code	Length (mm)	Weight (g)	
1340	200	164	1/12

PIPE CUTTER · DUCT CUTTER

- versatile ratchet tool for cutting plastic pipes (max 42 mm) and ducts (max 30x15 mm) as PVC, PP and PE
- the resin support, inserted in to the tool jaws, is provided with cutting marks with angles of 45°, 90° and 135°

Code	Length (mm)	Weight (g)	
1136	240	450	1/1

Max Ø 42 mm

Max □ 30x15 mm

CABLE STRIPPER WITH KNIFE

- transverse and longitudinal cut
- adjustable cut depth
- provided with a spare blade in the handle

BODY MATERIAL: in shockproof plastic

BLADE MATERIAL: steel

Code	Description	Diameter (mm)	Weight (g)	
1350	cable stripper with knife	8 - 28	90	1/10
1354	spare blade		2	10/10

CABLE STRIPPER

- transverse and longitudinal cut
- adjustable cut depth
- provided with a spare blade in the handle

BODY MATERIAL: in shockproof plastic

BLADE MATERIAL: steel

Code	Description	Diameter (mm)	Weight (g)	
1351	cable stripper	4 - 28	80	1/10
1353	cable stripper	28 - 35	90	1/10
1354	spare blade		2	10/10

AUTOMATIC WIRE STRIPPER

- automatic stripping without adjustment of the sections
- integrated cable cutter for cables up to Ø 2 mm
- stripping length adjustable from 5 to 12 mm

BODY MATERIAL: in shockproof plastic

Code	Flexible section (mm^2)	Rigid section (mm^2)	Weight (g)	
1370	0,2 - 6	0,2 - 6	105	1/10

AUTOMATIC WIRE STRIPPER

- automatic stripping without adjustment of the sections
- integrated cable cutter for cables up to Ø 3 mm
- suitable for flat cables (0.75 - 1.5 mm^2)

BODY MATERIAL: in shockproof plastic

Code	Flexible section (mm^2)	Rigid section (mm^2)	Weight (g)	
1371	0,5 - 16	0,5 - 10	205	1/10

WIRE STRIPPER FOR COAXIAL CABLES

- automatic stripping without adjustment of the sections
- integrated cable cutter

BODY MATERIAL: in shockproof plastic

Code	Diameter (mm)	Weight (g)	
1372	4,8 - 7,5	55	1/10

DOUBLE BLADE CUTTER

- reclosable knife equipped with two easily interchangeable blades: cutter and cutting blade 60 mm long
- fast switching from one blade to the other
- safety lock for opening and closing the blades
- rear hook for fastening to the belt and hanging case with blade holder pocket
- supplied with five spare blades

BODY MATERIAL: in aluminium

Code	Description	Length (mm)	Weight (g)	
1363	double blade knife	110	216	1/1
1364	spare blade		4	5/5

CUTTER

BLADE MATERIAL: steel

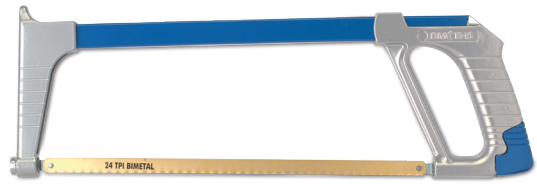
Code	Description	Length (mm)	Weight (g)	
1360	cutter	170	80	1/24
1361	spare blade		6	10/10

POCKET HACKSAW

- hacksaw with replaceable blade
- supplied with metal blade

Code	Description	Length (mm)	Weight (g)	
1341	pocket hacksaw	150	130	1/5
1342	spare blade		3	12/144

HACKSAW

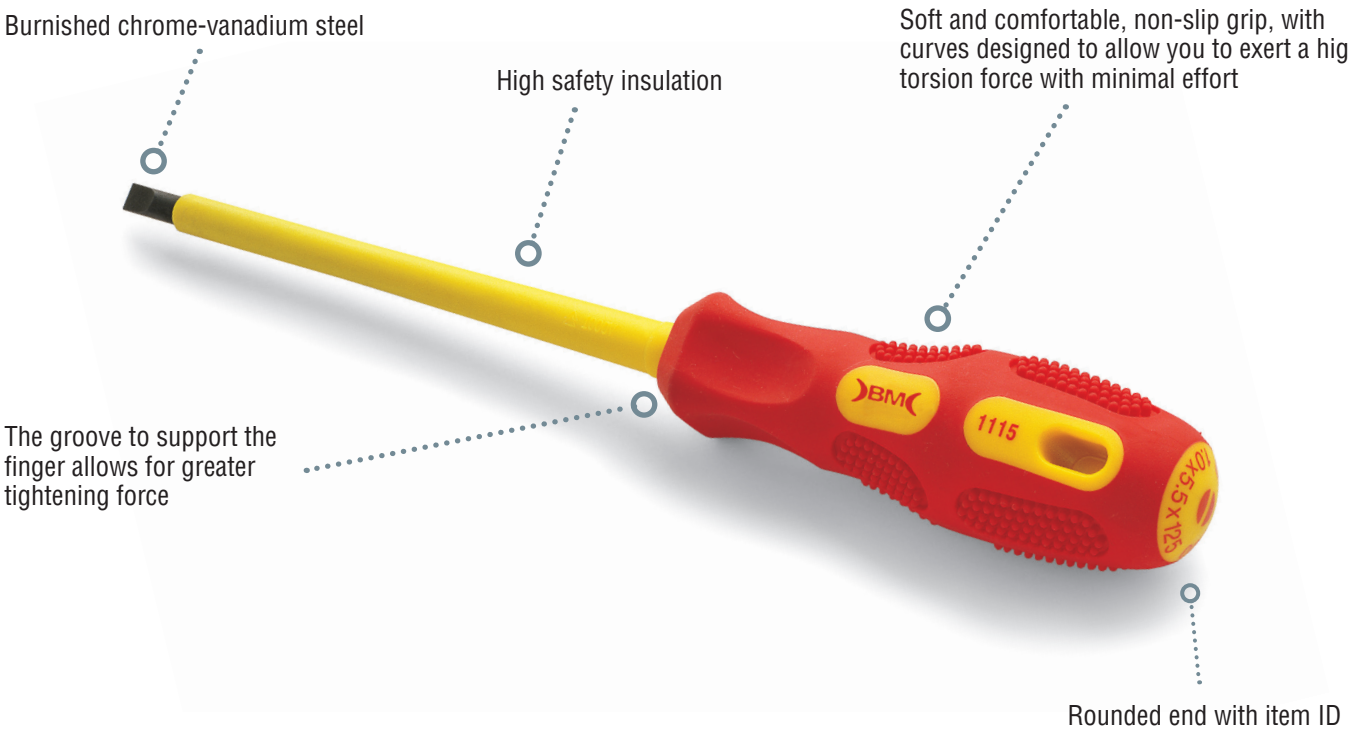


- hacksaw with replaceable blade
- supplied with Bimetall BAHCO blade for steel
- adjustable blade in 6 different cutting positions

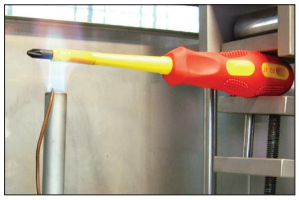
Code	Description	Length (mm)	Weight (g)	
1345	pocket hacksaw	300	560	1/8
1344	spare blade		15	10/10

INSULATED SCREWDRIVERS

To ensure maximum safety, BM screwdrivers for electricians have passed numerous tests and comply with the EN 60900 standard for use with voltage up to 1000 V.
Thanks to the use of chromium-vanadium steel with induction hardening and opaque surface blueing, BM screwdrivers offer high performance and last for a long time. The handle is made of bi-component reinforced elastomer, a non-sticky and corrosion resistant material.

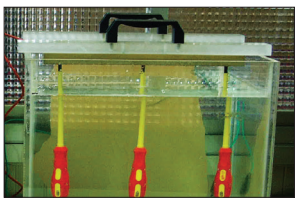


≙ 1 000 V EN 60900:2004
(IEC 60900:2004)


High temperature test, flame retardant test.

Low temperature test.

Individual tension tests.


Dielectric water bath test at 10000 V.

INSULATED SCREWDRIVERS · SLOTTED

TIP MATERIAL: burnished chrome-vanadium steel
HANDLE MATERIAL: bi-component reinforced elastomer
ACCORDING TO STD.: EN 60900:2004 (IEC 60900:2004)

Code	(mm)	(mm)	(mm)	
1112	2,5	75	145	1/12
1113	3	100	170	1/12
1114	4	100	200	1/12
1115	5,5	125	225	1/12
1116	6,5	150	260	1/12

1000 V

INSULATED SCREWDRIVERS · POZIDRIV HEAD (PZ)

TIP MATERIAL: burnished chrome-vanadium steel
HANDLE MATERIAL: bi-component reinforced elastomer
ACCORDING TO STD.: EN 60900:2004 (IEC 60900:2004)

Code		(mm)	(mm)	
1130	0	60	130	1/12
1131	1	80	180	1/12
1132	2	100	210	1/12
1133	3	150	272	1/6

1000 V

INSULATED SCREWDRIVERS · PHILLIPS HEAD (PH)

TIP MATERIAL: burnished chrome-vanadium steel
HANDLE MATERIAL: bi-component reinforced elastomer
ACCORDING TO STD.: EN 60900:2004 (IEC 60900:2004)

Code		(mm)	(mm)	
1120	0	60	130	1/12
1121	1	80	180	1/12
1122	2	100	210	1/12
1123	3	150	272	1/6

1000 V

INSULATED SCREWDRIVERS · NUT DRIVERS

HANDLE MATERIAL: bi-component reinforced elastomer
ACCORDING TO STD.: EN 60900:2004 (IEC 60900:2004)

Code	(mm)	(mm)	(mm)	
1151	7	125	235	1/12
1152	8	125	235	1/12
1153	9	125	235	1/12
1154	10	125	235	1/12
1155	11	125	235	1/12
1156	12	125	235	1/12
1157	13	125	235	1/12

1000 V

INSULATED SCREWDRIVERS · 5 PCS SET (SLOTTED + PH)

TIP MATERIAL: burnished chrome-vanadium steel
HANDLE MATERIAL: bi-component reinforced elastomer
ACCORDING TO STD.: EN 60900:2004 (IEC 60900:2004)

Code	
1195	1/6

Component	⊖ (mm)	⊕	(mm)
1112	2,5		75
1114	4		100
1116	6,5		150
1121		1	80
1122		2	100

1000 V

INSULATED SCREWDRIVERS · 7 PCS SET (SLOTTED + PH)

TIP MATERIAL: burnished chrome-vanadium steel
HANDLE MATERIAL: bi-component reinforced elastomer
ACCORDING TO STD.: EN 60900:2004 (IEC 60900:2004)

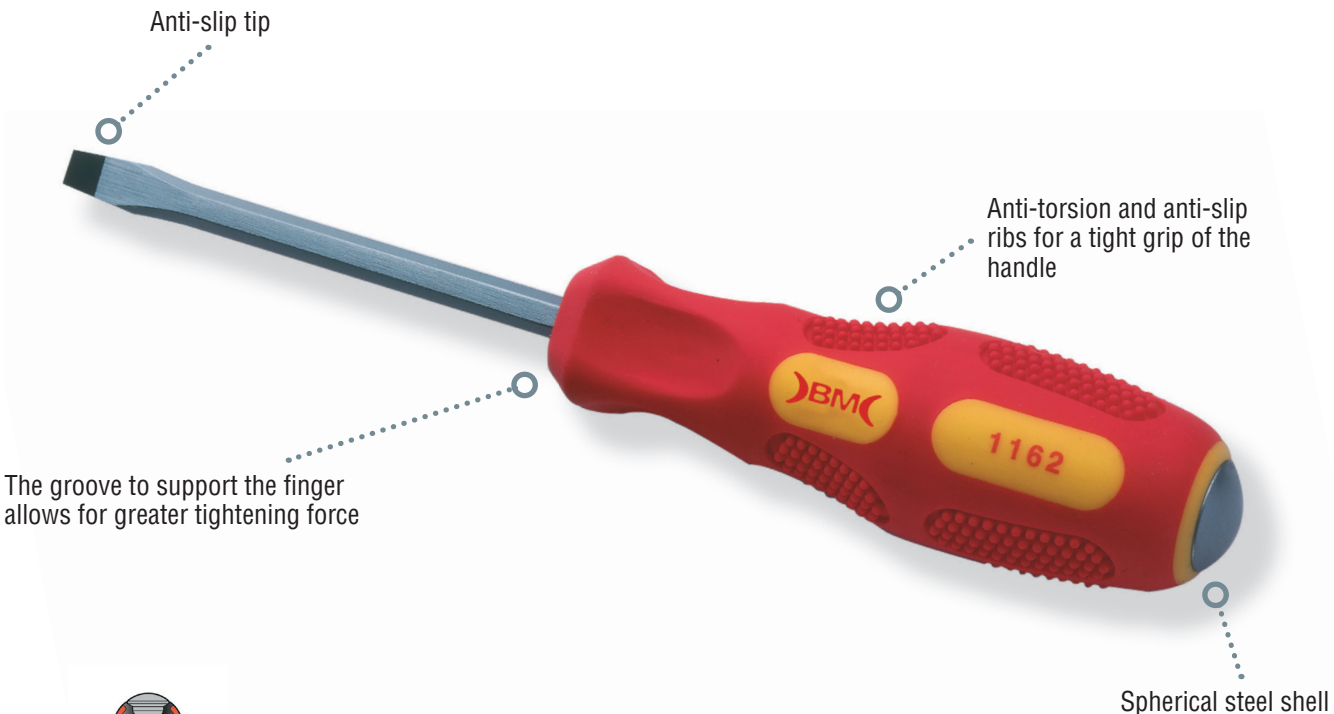
Code	
1197	1/6

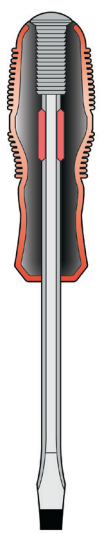
Component	⊖ (mm)	⊕	(mm)
1112	2,5		75
1113	3		100
1115	5,5		125
1116	6,5		150
1120		0	60
1121		1	80
1122		2	100

1000 V

REINFORCED SCREWDRIVERS

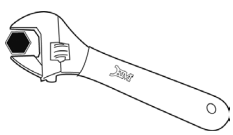
Made from a single piece of chrome vanadium chromium-plated steel, the shaft transfers the impact force from the spherical shell to the tip without straining the handle. Plus, thanks to its special design, it absorbs the vibrations produced by the impact, eliminating discomfort and stress on the hand.
Anti-torsion and anti-slip ribs for a tight grip of the handle.
The hexagonal shape of the shaft allows users to increase the torsion using a wrench.
The innovative design of the bi-component elastomer handle ensures a soft and comfortable anti-slip grip.

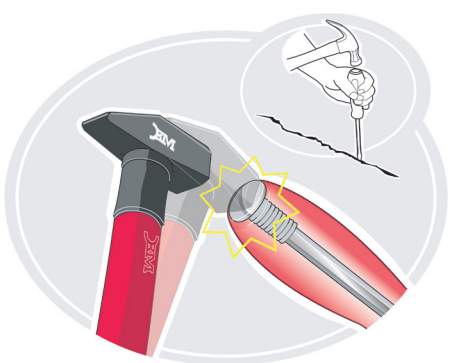




One piece chrome vanadium chromium-plated steel shaft

The hexagonal shape of the shaft allows users to increase the torsion using a wrench





REINFORCED SCREWDRIVERS · SLOTTED

TIP MATERIAL: chrome-vanadium chromium-plated steel
HANDLE MATERIAL: bi-component elastomer

Code	(mm)	(mm)	(mm)	
1161	5	75	175	1/12
1162	6	100	210	1/12
1163	8	150	272	1/6

REINFORCED SCREWDRIVERS · PHILLIPS HEAD (PH)

TIP MATERIAL: chrome-vanadium chromium-plated steel
HANDLE MATERIAL: bi-component elastomer

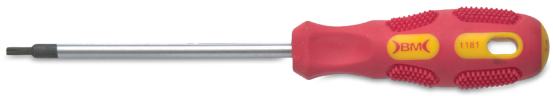
Code		(mm)	(mm)	
1166	1	75	175	1/12
1167	2	100	210	1/12

REINFORCED SCREWDRIVERS · POZIDRIV HEAD (PZ)

TIP MATERIAL: chrome-vanadium chromium-plated steel
HANDLE MATERIAL: bi-component elastomer

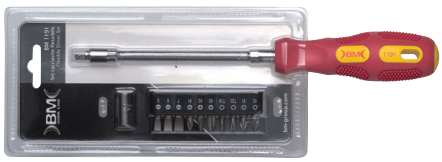
Code		(mm)	(mm)	
1168	1	75	175	1/12
1169	2	100	210	1/12

SCREWDRIVERS · TORX



Code	✪	(mm)	(mm)	
1182	T9	75	145	1/12
1183	T10	100	200	1/12
1184	T15	100	200	1/12
1185	T20	100	200	1/12

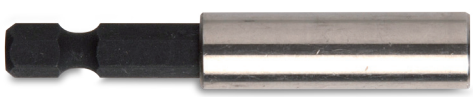
FLEXIBLE DRIVER SET



12 pieces set including:
- flexible driver
- 1/4" bit holder
- slotted bits: 5 - 6 - 7 mm
- Phillips bits: N° 1 - N° 2 - N° 3
- Pozidriv bits: N° 1 - N° 2
- Torx bits: T15 - T20

Code	(mm)	(mm)	
1191	150	270	1/6

MAGNETIC BIT-HOLDER 1/4"



- chrome-vanadium steel

Code	Length (mm)	
11401	60	10/10

1/4" BITS FOR PHILLIPS SCREWS

TIP MATERIAL: chrome-vanadium steel

Code	✪	Length (mm)	
11402	1	100	10/10
11403	1	150	10/10
11404	2	100	10/10
11405	2	150	10/10

1/4" BITS FOR POZIDRIV SCREWS

TIP MATERIAL: chrome-vanadium steel

Code	✪	Length (mm)	
11406	1	100	10/10
11407	1	150	10/10
11409	2	150	10/10

1/4" BIT SET · 7 PCS

- 1/4" magnetic screwdriver holder
- Slotted bits: 5,5 x 0,8 - 7 x 1,2
- Phillips bits: N° 1 - N° 2
- Pozidriv bits: N° 1 - N° 2

Code	Weight (g)	
1140	95	1/10

VOLTAGE TESTER 3X60

- protection resistance inserted in the bulb
- light (only 17g)

HANDLE MATERIAL: transparent plastic

HARDNESS: 52-55 HRC

SURFACE TREATMENT: nickel

Code	Voltage (VAC)	⌀ (mm)	(mm)	(mm)	
1141	120-250	3	60	140	1/6

VOLTAGE TESTER 3.5X100

- protection resistance inserted in the bulb
- light (only 30g)

HANDLE MATERIAL: transparent plastic

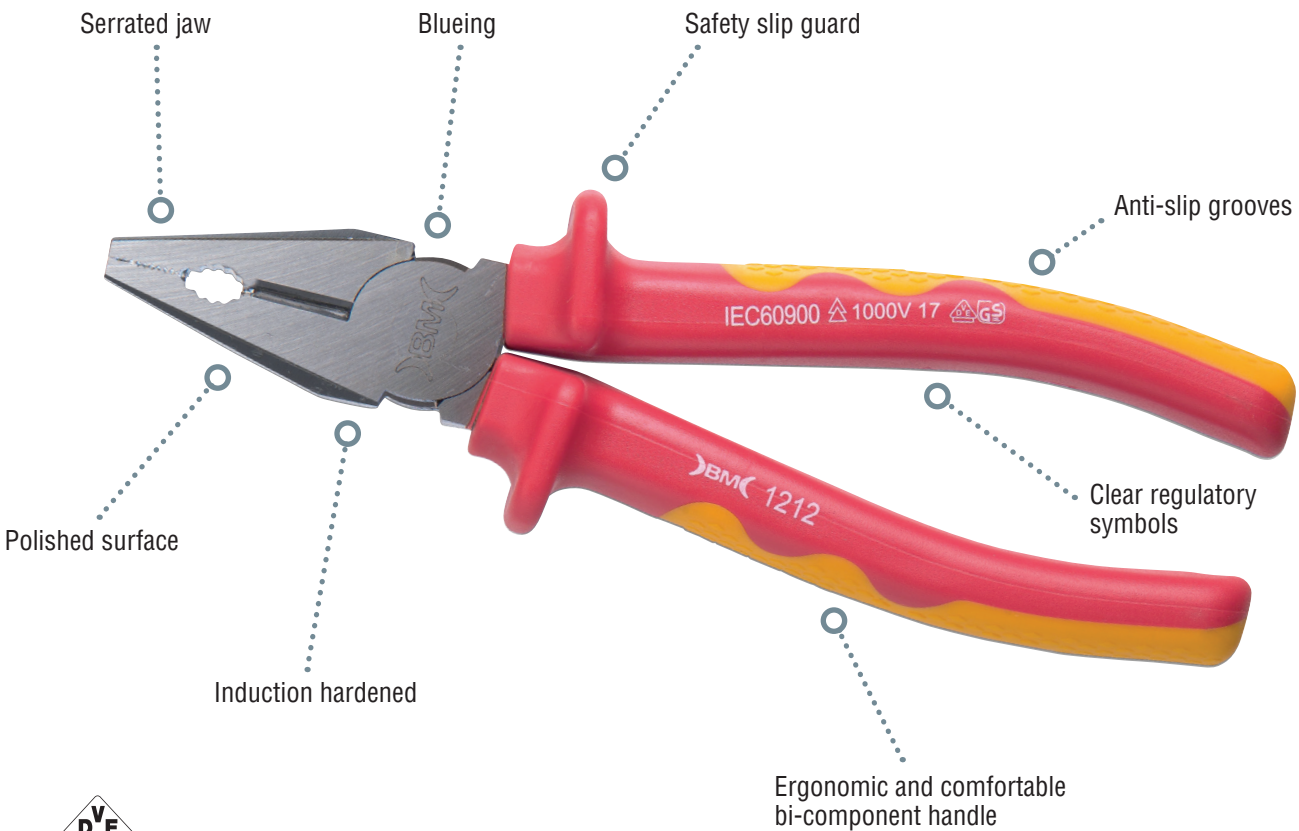
HARDNESS: 52-55 HRC

SURFACE TREATMENT: nickel

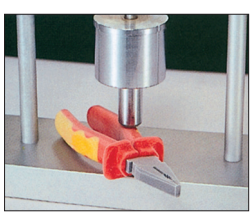
Code	Voltage (VAC)	⌀ (mm)	(mm)	(mm)	
1142	120-250	3,5	100	190	1/10

HIGH INSULATION PLIERS

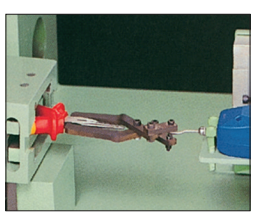
BM's high insulation pliers are manufactured and tested one by one at 10,000 V in conformity to EN 60900 for use with voltage up to 1,000 V approx. The steel used is high quality chromium-vanadium, with induction hardening treatment and opaque surface blueing, thus ensuring that BM's pliers achieve high performance and last for a long time. The pliers have an innovative design, which ensures a comfortable and ergonomic anti-slip grip. The bi-component plastic used for the handles is not sticky, it is corrosion resistant and ensures a firm grip even in heavy duty applications.

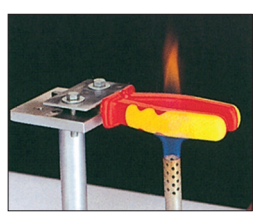


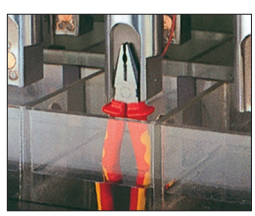
1 000 V EN 60900:2004
(IEC 60900:2004)


Low temperature test.

Indentation test.


Handles mechanical resistance test.


High temperature test, flame retardant test.


Dielectric water bath test to 10000 V.

INSULATED PLIERS · COMBINATION

TIP MATERIAL: chrome-vanadium steel
HANDLE MATERIAL: bi-component elastomer
ACCORDING TO STD.: EN 60900:2004 (IEC 60900:2004)

Code	Length (mm)	Weight (g)	
1211	160	230	1/6
1212	180	290	1/6
1213	200	350	1/6

1000 V

INSULATED PLIERS · SIDE CUTTERS

TIP MATERIAL: chrome-vanadium steel
HANDLE MATERIAL: bi-component elastomer
ACCORDING TO STD.: EN 60900:2004 (IEC 60900:2004)

Code	Length (mm)	Weight (g)	
1220	140	148	1/4
1221	160	220	1/6
1222	180	300	1/6

1000 V

INSULATED PLIERS · LONG CHAIN NOSE

TIP MATERIAL: chrome-vanadium steel
HANDLE MATERIAL: bi-component elastomer
ACCORDING TO STD.: EN 60900:2004 (IEC 60900:2004)

Code	Length (mm)	Weight (g)	
1232	160	150	1/4
1233	200	210	1/6

1000 V

INSULATED PLIERS · LONG CHAIN NOSE 45°

TIP MATERIAL: chrome-vanadium steel
HANDLE MATERIAL: bi-component elastomer
ACCORDING TO STD.: EN 60900:2004 (IEC 60900:2004)

Code	Length (mm)	Weight (g)	
1243	200	200	1/6

1000 V

INSULATED PLIERS · FLAT NOSE

TIP MATERIAL: chrome-vanadium steel
HANDLE MATERIAL: bi-component elastomer
ACCORDING TO STD.: EN 60900:2004 (IEC 60900:2004)

Code	Length (mm)	Weight (g)	
1251	160	170	1/6

1000 V

INSULATED PLIERS · WATER PUMP

TIP MATERIAL: chrome-vanadium steel
HANDLE MATERIAL: bi-component elastomer
ACCORDING TO STD.: EN 60900:2004 (IEC 60900:2004)

Code	Length (mm)	Weight (g)	Max opening (mm)	
1273•	175	220	25	1/6
1274	250	400	35	1/6

• No VDE

1000 V

INSULATED PLIERS · WIRE STRIPPING

TIP MATERIAL: chrome-vanadium steel
HANDLE MATERIAL: bi-component elastomer
ACCORDING TO STD.: EN 60900:2004 (IEC 60900:2004)

Code	Length (mm)	Weight (g)	
1261	160	190	1/6

1000 V

INSULATED PLIERS · HEAVY DUTY SIDE CUTTERS

TIP MATERIAL: chrome-vanadium steel
HANDLE MATERIAL: bi-component elastomer
ACCORDING TO STD.: EN 60900:2004 (IEC 60900:2004)

Code	Length (mm)	Weight (g)	
1225	200	334	1/4

1000 V

DRILL BITS · 5 PCS SET · DIN 8039 MASONRY

SET PIECES: 5

Code	Ø (mm)	Weight (g)	
1919	4 - 5 - 6 - 8 - 10	125	1/1

DRILL BITS · 19 PCS SET · HSS DIN 338 ROLLED TWIST

• complete with saw holder, pilot tips and saw holder adapter

HEAD MATERIAL: HSS

SET PIECES: 19

Code	Ø (mm)	Weight (g)	
1949	1 ÷ 10 x 0.5	443	1/1

DRILL BITS · 19 PCS SET · HSS-TIN DIN 338

HEAD MATERIAL: HSS-TIN

SET PIECES: 19

Code	Ø (mm)	Weight (g)
1950	1 ÷ 10 x 0.5	443

DRILL BITS · 19 PCS SET · MASONRY DIN 8039 AND HSS DIN 338

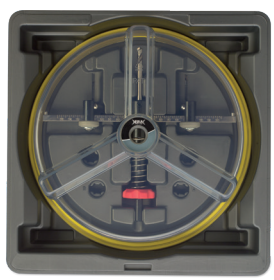
DIN 338 DRILL BIT APPLICATION: holes on iron and steel for non industrial uses

DIN 8039 DRILL BIT APPLICATION: holes on walls, cement, marble, non hard-stones with non-intensive use

SET PIECES: 19

Code	Masonry drill DIN 8039 (ISO 5468) (mm)	Drill HSS DIN 338 (mm)	Weight (g)	
1939	4, 5, 6, 8, 9, 10	1, 1.5, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 8, 10	325	1/1

ADJUSTABLE CIRCULAR CUTTER WITH TRANSPARENT DUST PROTECTION



• cutter suitable for all types of drills with torque regulator
• easy fine adjustment of the cutting edges
• provided with dust cover
• suitable for plasterboard, fiber cement, wood, plywood veneer, stucco and acrylic materials, synthetic glass

Code	Ø (mm)	Cutting depth (mm)	Weight (g)	
1976	40 ÷ 205	30	2470	1/1

CONE DRILL BIT · HSS

• for drilling metal sheets, pipes, metal or plastic rails up to 5 mm thick
• anti-slip joint
• coupling diameter 10 mm

Code	Ø (mm)	Weight (g)	
1941	3 ÷ 31	170	1/1

STEP DRILL BIT · HSS

• for drilling cylindrical and precise holes in metal sheets, pipes, metal or plastic rails up to 5 mm thick
• anti-slip joint
• coupling diameter 10 mm

Code	Ø (mm)	Weight (g)	
1944	4 - 6 - 8 - 10 - 12 - 14 - 16 - 18 - 20 - 22 - 24 - 26 - 28 - 30	140	1/1

STEP DRILL BIT · HSS · FOR PG THREADS

• for drilling cylindrical and precise holes in metal sheets, pipes, metal or plastic rails up to 5 mm thick
• anti-slip joint
• coupling diameter 10 mm
• suitable for thread-through holes from PG 7 to PG 29

Code	Ø (mm)	Weight (g)	
1942	13 - 16 - 19 - 21 - 23 - 26 - 29 - 32 - 35 - 38	160	1/1

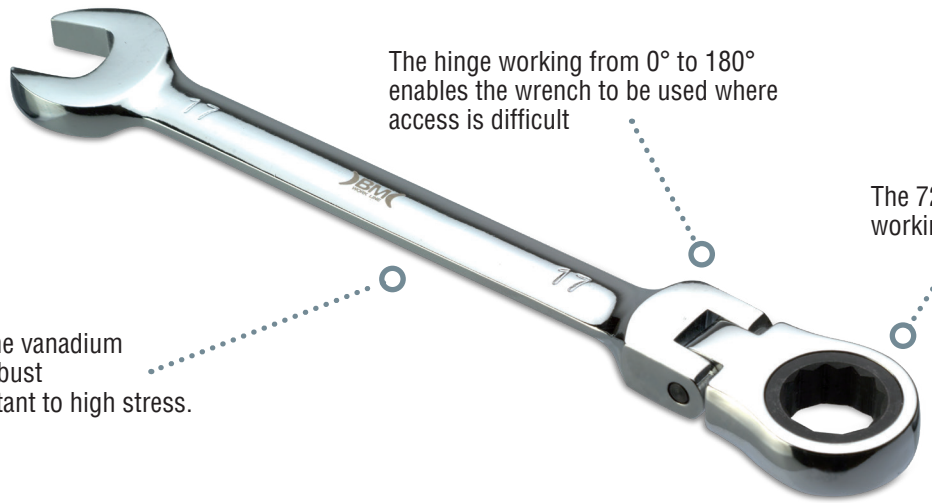
STEP DRILL BIT · HSS · FOR METRIC THREADS

• specifically designed for drilling nut and through holes with threads from M12 x 1.5 to M40 x 1.5
• coupling diameter 12 mm

Code	Ø (mm)	Weight (g)	
1943	6 - 10.5 - 12.5 - 14.5 - 16.5 - 18.5 - 20.5 - 23.5 - 25.5 - 30.5 - 32.5 - 38.5 - 40.5	230	1/1

COMBINED RATCHET WRENCHES WITH SWIVEL POLYGON HEAD

BM combination ratcheting wrenches with flexible head are built and tested one by one to guarantee maximum efficiency and duration.



COMBINED RATCHET WRENCHES WITH SWIVEL POLYGON HEAD · 4 PCS SET

• the 72 tooth ratchet mechanism requires a shooting angle of only 5°
• the articulated and adjustable head up to 180° allows to operate in difficult access conditions

MATERIAL: chrome-vanadium steel with shiny chrome plating

SET CONSISTING OF: 4 pieces

Code	Weight (g)	
16698	500	1/5

Component	○ (mm)	Pcs
16608	8	1
16610	10	1
16613	13	1
16617	17	1

DOUBLE ENDED WRENCHES DIN 3110 · 8 PCS SET

MATERIAL: chrome-vanadium chromium-plated steel
ACCORDING TO STD.: DIN 3110
SET CONSISTING OF: 8 pieces

Code	Weight (g)	
1630	890	1/1

Component	○ (mm)	Pcs
16301	6 x 7	1
16302	8 x 9	1
16303	10 x 11	1
16304	12 x 13	1
16305	14 x 15	1
16306	16 x 17	1
16307	18 x 19	1
16308	20 x 22	1

COMBINATION WRENCHES DIN 3113 · 12 PCS SET

MATERIAL: chrome-vanadium chromium-plated steel
ACCORDING TO STD.: DIN 3113
SET CONSISTING OF: 12 pieces

Code	Weight (g)	
1650	1020	1/1

Component	○ (mm)	Pcs
16506	6	1
16507	7	1
16508	8	1
16509	9	1
16510	10	1
16511	11	1
16512	12	1
16513	13	1
16514	14	1
16517	17	1
16519	19	1
16522	22	1

ALLEN WRENCHES DIN 911 90° BENDED · 9 PCS SET

MATERIAL: galvanized chrome-vanadium steel
ACCORDING TO STD.: DIN 911
SET CONSISTING OF: 9 pieces

Code	Weight (g)	
1620	230	1/10

Component	○ (mm)	Pcs
16201	1,5	1
16202	2	1
16203	2,5	1
16204	3	1
16205	4	1
16206	5	1
16207	6	1
16208	8	1
16209	10	1

SPHERICAL HEAD ALLEN WRENCHES 90° BENDED· 9 PCS SET

9-piece set, sizes: 1.5-2-2.5-3-4-5-6-8-10 mm
MATERIAL: chrome-vanadium chromium-plated steel
SET CONSISTING OF: 9 pieces

Code	Weight (g)	
1621	435	1/1

ADJUSTABLE WRENCH

- ergonomic handle with anti-slip surface
- metric measuring scale

MATERIAL: chrome-vanadium chromium-plated steel

Code	Length (mm)	Opening (mm)	Weight (g)	
1610	200	24	330	1/1

UNIVERSAL SWITCH CABINET WRENCH

- square shapes: 5-6-7÷8 mm
- triangular shape: 7÷8 mm
- double notch: 3÷5 mm

. adapter 1/4”

- screwdriver bit

Code	Weight (g)	
1625	60	1/5

HAMMERS

• hardened and varnished C 45 steel. Shaped ash wood handle, nylon protection collar, steel wedge lock

Code	Weight (g)	
1716	300	1/12

THREE-COMPONENT HAMMER

• hardened and varnished C 45 steel. Patented nylon handle, anti-slip rubber grip, aluminum alloy core, anti-vibration

Code	Weight (g)	
1710	300	1/6

SUCTION LIFTER · 1 CUP

• universal suction lifter for different loads
• suitable for all kind of surfaces: flat, gas-proof, slightly curved or structural
• suction pad 120 mm
• aluminum structure
• handle and levers in synthetic material

Code	Description	Maximum load	Weight (g)	
1760	suction lifter 1 cup	30 kg - vert.	425	1/1
1761	spare cup			1/1

SUCTION LIFTER · 2 CUPS

• universal suction lifter for different loads
• suitable for all kind of surfaces: flat, gas-proof, slightly curved or structural
• suction pad 120 mm
• aluminum structure
• handle and levers in synthetic material

Code	Description	Maximum load	Weight (g)	
1770	suction lifter 2 cups	60 kg - parall.	860	1/1
1771	spare cup			

WOOD MEASURING RULER

• wood, with spring, millimetric graduation on both sides

Code	Length (m)	
1410	2	1/10

TAPE MEASURE

• body in bi-component material ABS and rubber, with back hook
• tape in hardened and painted steel C60, double-stop device, stop damper, movable butt for inner and outer measuring, reinforced with duralumin
• accuracy class: II (second)

Code	Length (m)	Height (mm)	
1423	3	16	1/12
1424	5	19	1/12

CE

SPIRIT LEVEL · MINI

• made with painted structural aluminum, one vial. Accuracy 1 mm per 1 m

Code	Length (mm)	
1551	150	1/30

SPIRIT LEVEL · POCKET

• made with painted structural aluminium, two vials. Accuracy 0,5 mm per 1 m

Code	Length (mm)	
1552	220	1/20

PLASTIC CASE

- plastic case
- removable containers

Code	Description	Dimensions (mm)
00405	Plastic case	420x340x92

CASE WITH BOXES FOR SMALL COMPONENTS

- case with propylene boxes
- double hook locking system
- roomy storage under the lid
- strong frame that can be used as a seat

Code	Description	Dimensions (mm)
1818	Case with boxes for small components	420x303x400

POUCH

- empty reinforced nylon pouch

Code	Description
18030	Pouch

POUCH + TOOL SET (5 PCS)

reinforced nylon pouch
complete with 5 tools:
- VDE insulated Phillips screwdriver 1x8
- VDE insulated slotted screwdriver 3x100
- VDE insulated slotted screwdriver 4x100
- cutter/stripper scissor + case
- VDE insulated combination pliers 180

Code	Description
18030M1	Pouch + 5 tools

CANVAS SOFT BAG

- soft canvas bag
- in high resistance fabric
- two separate internal compartments with pockets and elastic tool holders
- it can be fully opened
- removable shoulder strap
- tubular aluminium handle with optional cover
- rigid base with rubber feet

Code	Description	Dimensions (mm)
1814	Canvas soft bag	370x270x360

CANVAS SOFT BAG + TOOL SET (14 PCS)

soft canvas bag
in high resistance fabric
two separate internal compartments with pockets and elastic tool holders
it can be fully opened
removable shoulder strap
tubular aluminium handle with optional cover
rigid base with rubber feet
complete with 14 tools:
- VDE insulated slotted screwdriver 3x100
- VDE insulated slotted screwdriver 4x100
- VDE insulated slotted screwdriver 5,5x125
- VDE insulated slotted screwdriver 6,5x150
- VDE insulated screwdriver, PH 0 head
- VDE insulated screwdriver, PH 1 head
- VDE insulated screwdriver, PH 2 head
- voltage tester 3x60 250 V
- VDE insulated combination pliers 180
- cutter/stripper scissors + case
- pocket saw
- measuring tape: 3 m - W=16 mm bi-component
- pocket spirit level 220 mm
- hammer 300 gr

Code	Description	Dimensions (mm)
1814A1	Canvas soft bag + 14 tools	370x270x360

BM 1814: SOFT BAG

ROBUST. ORGANIZED. SPACIOUS.

The canvas tool bag designed to carry and organize everything needed for everyday work.

Front pocket.

Shoulder sling.

Rigid base
with rubber feet.

APPENDICES

CRIMPING TOOL GUIDE	pag. 341
DEFINITIONS	pag. 350
STANDARDS	pag. 351
RETIE CERTIFIED CODES	pag. 352
APPROXIMATE CORRESPONDENCE BETWEEN SECTIONS OF THE AMERICAN AND EUROPEAN STANDARD	pag. 353
CONDUCTOR RESISTENCE VALUES	pag. 354
DEGREES OF PROTECTION PROVIDED BY CASINGS (IP CODE)	pag. 355
ANALYTICAL INDEX	pag. 356

FOR CLASS 1,2,5,6 UNINSULATED TERMINALS AND GROUND NETWORK

L.V. COPPER TERMINAL LUGS
- uninsulated from sheet: ring
  fork
  round pin
  silver alloy brazed DIN 46234
- uninsulated from tube: straight, bent 45°, bent 90°
  for class 6 conductors
  with small plate
  fork
  pin

COPPER TERMINAL FOR GROUND NETWORK
- uninsulated long barrel for land network
- uninsulated with ring for land network
- uninsulated rectangular for land network

L.V. BUTT CONNECTORS
- uninsulated butt connectors (L.V.)
- uninsulated parallel connectors (L.V.)

Crimping tool			Section mm² (AWG/kcmil)																								
Type		Code	0,25 (22)	0,5 (20)	0,75 (18)	1 (17)	1,5 (16)	2,5 (14)	4 (12)	6 (10)	10 (8)	16 (6)	25 (4)	35 (2)	50 (1/0)	70 (2/0)	95 (3/0)	120 (4/0)	150 (300)	185 (400)	240 (500)	300 (600)	400 (800)	500 (1000)	630 (1250)
manual	HB	**520**																									
	CRIM	**535**																									
		5305 (kit)																									
	CRIMDEM	**5351**																									
		5345 (kit)																									
	CRIMPAR	**53P000 + 53M5N2**																									
		53P000 + 53M5N1																									
		53KPBF (kit)																									
	parallel	**6534 + 635D**																									
	long handles	**526**																									
		510																									
		512																									
		523																									
		582 + series 82																									
pneumatic		**1661 + 535D**																									
hydraulic	50 kN	**182/182P (*) + series 82**																			CL5						
		1823/1824 (*) + series 82																			CL5						
		1823P + series 82																			CL5						
		1823A1/A2/A3/A4 + series 82																			CL5						
		200 (*) + series 82																			CL5						
		200PA (*) + series 82																			CL5						
	60 kN	**1833/1833A1 + series 83**																			CL5	CL5					
	80 kN	**183/183P (*) + series 83**																			CL5	CL5					
	120 kN	**184P/184PL + series 84**																			CL5	CL5	CL5				
	125 kN	**184 (*) + series 84**																			CL5	CL5	CL5				
	130 kN	**186 + series 84**																			CL5	CL5	CL5				
battery	55 kN	**37A055/37A055A1 + series 83**																			CL5	CL5					
	60 kN	**383 (*) + series 83**																			CL5	CL5					
	62 kN	**38A062 + series 85**																			CL5	CL5					
	120 kN	**384 (*) + series 84**																			CL5	CL5	CL5				
	130 kN	**38A130 + series 84**																			CL5	CL5	CL5				
		38A130L + series 84																			CL5	CL5	CL5				
head	50 kN	**200A (*) + series 82**																			CL5						
	60 kN	**2833 + series 83**																			CL5	CL5					
	80 kN	**283 (*) + series 83**																			CL5	CL5					
	120 kN	**284/284L + series 84**																			CL5	CL5	CL5				
		286 + series 84																			CL5	CL5	CL5				
	230 kN	**270 + series 70**																									

(*) item running out
CL5 = only Class 5 terminals (no Class 6 terminals that have sections not greater than 185 mm²)

FOR L.V. DIN AND NFC TERMINALS

L.V. COPPER TERMINAL LUGS
- uninsulated compliant to DIN 46235 (L.V.)
- uninsulated compliant to DIN 46235 in untinned copper (L.V.)
- uninsulated 90° bended obtained from terminal lugs compliant to DIN 46235 (L.V.)
- uninsulated NFC terminals (L.V.)

L.V. BUTT CONNECTORS
- uninsulated compliant to DIN 46267/1 (L.V.)

Crimping tool			Section mm² (AWG/kcmil)																						
Type		Code	0,25 (22)	0,5 (20)	0,75 (18)	1 (17)	1,5 (16)	2,5 (14)	4 (12)	6 (10)	10 (8)	16 (6)	25 (4)	35 (2)	50 (1/0)	70 (2/0)	95 (3/0)	120 (4/0)	150 (300)	185 (400)	240 (500)	300 (600)	400 (800)	500 (1000)	630 (1250)
manual	long handles	**524**																							
		525																							
		511																							
		513																							
		582 + series 82																							
hydraulic	50 kN	**182/182P (*) + series 82**																							
		1823/1824 (*) + series 82																							
		1823P + series 82																							
		1823A1/A2/A3/A4 + series 82																							
		200 (*) + series 82																							
		200PA (*) + series 82																							
	60 kN	**1833/1833A1 + series 83**							NF	NF															
	80 kN	**183/183P (*) + series 83**							NF	NF															
	120 kN	**184P + series 84**								NF															
		184PL + series 84								NF													NF		
	125 kN	**184 (*) + series 84**								NF													NF		
	130 kN	**186 + series 84**								NF													NF		
battery	55 kN	**37A055/37A055A1 + series 83**							NF	NF															
	60 kN	**383 (*) + series 83**							NF	NF															
	62 kN	**38A062 + series 85**								NF												NF			
	120 kN	**384 (*) + series 84**								NF															
	130 kN	**38A130 + series 84**								NF															
		38A130L + series 84								NF													NF		
head	50 kN	**200A (*) + series 82**																							
	60 kN	**2833 + series 83**							NF	NF															
	80 kN	**283 (*) + series 83**							NF	NF															
	120 kN	**284 + series 84**								NF															
		284L + series 84								NF													NF		
		286 + series 84																							

(*) item running out
NF = only FNC terminals (no DIN terminals)

CRIMPING TOOL GUIDE

FOR UNINSULATED TERMINALS M.V.

M.V. COPPER TERMINAL LUGS
- uninsulated
- uninsulated with double hole

M.V. COPPER JOINTS
- uninsulated

Crimping tool			Section mm² (AWG/kcmil)															
Type		Code	6 (10)	10 (8)	16 (6)	25 (4)	35 (2)	50 (1/0)	70 (2/0)	95 (3/0)	120 (4/0)	150 (300)	185 (400)	240 (500)	300 (600)	400 (800)	500 (1000)	630 (1250)
hydraulic	50 kN	**582 + series 82**				■	■											
		182/182P (*) + series 82				■	■	■	■	■	■	■						
		1823/1824 (*) + series 82				■	■	■	■	■	■	■						
		1823P + series 82				■	■	■	■	■	■	■						
		1823A1/A2/A3/A4 + series 82				■	■	■	■	■	■	■						
		200 (*) + series 82				■	■	■	■	■	■	■						
		200PA (*) + series 82				■	■	■	■	■	■	■						
	60 kN	**1833/1833A1 + series 83**				■	■	■	■	■	■	■	■	■	■			
	80 kN	**183/183P (*) + series 83**				■	■	■	■	■	■	■	■	■	■			
	120 kN	**184P/184PL + series 84**				■	■	■	■	■	■	■	■	■	■	■		
	125 kN	**184 (*) + series 84**				■	■	■	■	■	■	■	■	■	■	■		
	130 kN	**186 + series 84**				■	■	■	■	■	■	■	■	■	■	■		
battery	55 kN	**37A055/37A055A1 + series 83**				■	■	■	■	■	■	■	■	■	■			
	60 kN	**383 (*) + series 83**				■	■	■	■	■	■	■	■	■	■			
	62 kN	**38A062 + series 85**				■	■	■	■	■	■	■	■	■	■			
	120 kN	**384 (*) + series 84**				■	■	■	■	■	■	■	■	■	■	■		
	130 kN	**38A130 + series 84**				■	■	■	■	■	■	■	■	■	■	■		
		38A130L + series 84				■	■	■	■	■	■	■	■	■	■	■		
head	50 kN	**200A (*) + series 82**				■	■	■	■	■	■	■						
	60 kN	**2833 + series 83**				■	■	■	■	■	■	■	■	■	■			
	80 kN	**283 (*) + series 83**				■	■	■	■	■	■	■	■	■	■			
	120 kN	**284/284L + series 84**				■	■	■	■	■	■	■	■	■	■	■		
		286 + series 84				■	■	■	■	■	■	■	■	■	■	■		

(*) item running out

FOR UNINSULATED ALUMINUM AND BIMETALLIC TERMINALS

ALUMINUM TERMINAL LUGS
- uninsulated for aluminum conductors DIN 48201

BIMETALLIC TERMINAL LUGS
- uninsulated ring
- uninsulated ring DIN 48201

ALUMINUM JOINTS
- uninsulated for DIN 48201 aluminum conductors
- uninsulated for Medium Voltage aluminum conductors
- uninsulated reduction joints for Medium Voltage aluminum or copper conductors

Crimping tool			Section mm² (AWG/kcmil)															
Type		Code	6 (10)	10 (8)	16 (6)	25 (4)	35 (2)	50 (1/0)	70 (2/0)	95 (3/0)	120 (4/0)	150 (300)	185 (400)	240 (500)	300 (600)	400 (800)	500 (1000)	630 (1250)
manual	long handles	**582 + series 82**																
hydraulic	50 kN	**182/182P (*) + series 82**																
		1823/1824 (*) + series 82																
		1823P + series 82																
		1823A1/A2/A3/A4 + series 82																
		200 (*) + series 82																
		200PA (*) + series 82																
	60 kN	**1833/1833A1 + series 83**											G					
	80 kN	**183/183P (*) + series 83**											G					
	120 kN	**184P/184PL + series 84**																
	125 kN	**184 (*) + series 84**																
	130 kN	**186 + series 84**																
		186 + series 86																
battery	55 kN	**37A055/37A055A1 + series 83**											G					
	60 kN	**383 (*) + series 83**											G					
	62 kN	**38A062 + series 85**																
	120 kN	**384 (*) + series 84**																
	130 kN	**38A130 + series 84**																
		38A130L + series 84																
head	50 kN	**200A (*) + series 82**																
	60 kN	**283 (*) + series 83**											G					
	80 kN	**2833 + series 83**											G					
	120 kN	**284/284L + series 84**																
		286 + series 84																
		286 + series 86																

(*) item running out
G = only aluminum and bimetallic DIN

CRIMPING TOOL GUIDE

FOR INSULATED TERMINALS

PVC INSULATED TERMINALS
• insulated from sheet: ring
fork
round and blade pin

• insulated from sheet and anti-vibrating: ring
fork
round pin

L.V. NYLON INSULATED TERMINALS
• insulated from sheet: ring
fork
round blade pin

• insulated from tube: black
black nylon for class 6 conductors
black with small plate
black with fork
black with blade pin
coloured

BUTT CONNECTORS
• PVC insulated
• nylon insulated
• with heat shrinking insulation (only with "T")

ONE -WAY TERMINAL BLOCKS
• close end connectors for clamping (only with "C")

Crimping tool			Section mm² (AWG/kcmil)																							
Type		Code	0,25 (22)	0,5 (20)	0,75 (18)	1 (17)	1,5 (16)	2,5 (14)	4 (12)	6 (10)	10 (8)	16 (6)	25 (4)	35 (2)	50 (1/0)	70 (2/0)	95 (3/0)	120 (4/0)	150 (300)	185 (400)	240 (500)	300 (600)	400 (800)	500 (1000)	630 (1250)
manual	HB	**520**	+T	+T	+T	+T	+T	+T	+T	+T															
	CRIM	**534**																							
		5305 (kit)																							
	CRIMDEM	**5341**																							
		5345 (kit)																							
	CRIMPAR	**53P02H**																							
		53P000 + 53M02H																							
		53KPBF (kit)																							
	parallel	**6534 + 634D**																							
		6534 + 636D																							
	long handles	**528**		C, T	C, T	C, T	C, T	C, T	C, T	C, T															
		582 + series 82																							
pneumatic		**1661 + 534D**																							
hydraulic	50 kN	**182/182P (*) + series 82**																							
		1823/1824 (*) + series 82																							
		1823P + series 82																							
		1823A1/A2/A3/A4 + series 82																							
		200 (*) + series 82																							
		200PA (*) + series 82																							
	60 kN	**1833/1833A1 + series 83**																							
	80 kN	**183/183P (*) + series 83**																							
	120 kN	**184P/184PL + series 84**																							
	125 kN	**184 (*) + series 84**																							
	130 kN	**186 + series 84**																							
battery	55 kN	**37A055/37A055A1 + series 83**																							
	60 kN	**383 (*) + series 83**																							
	62 kN	**38A062 + series 85**																							
	120 kN	**384 (*) + series 84**																							
	130 kN	**38A130 + series 84**																							
		38A130L + series 84																							
head	55 kN	**200A (*) + series 82**																							
	60 kN	**283 (*) + series 83**																							
	80 kN	**2833 + series 83**																							
	120 kN	**284/284L + series 84**																							
		286 + series 84																							

(*) item running out
CT = butt connectors with heat shrinking insulation and close end connectors
+T = the tool crimps butt connectors with heat shrinking insulation in addition to PVC and nylon insulated terminals

FOR END-SLEEVES

- uninsulated single cable
- insulated single cable
- insulated single cable in a strap (only with “S”)
- insulated double cable (only with “D” or “+D”)

Crimping tool			Section mm² (AWG/kcmil)																				
Type		Code	0,08 (28)	0,25 (22)	0,5 (20)	0,75 (18)	1 (17)	1,5 (16)	2,5 (14)	4 (12)	6 (10)	10 (8)	16 (6)	25 (4)	35 (2)	50 (1/0)	70 (2/0)	95 (3/0)	120 (4/0)	150 (300)	185 (400)	240 (500)
manual	HB	540																					
		541																					
		542																					
	CRIM	537																					
		539																					
		533																					
		5305 (kit)																					
	CRIMDEM	5371																					
		5391																					
		5331																					
		5345 (kit)																					
	CRIMPAR	53P02E																					
		53P000 + 53M02E																					
		53P2E1																					
		53P000 + 53M2E1																					
		53P000 + 53M5D2																					
		53P5D1																					
		53P000 + 53M5D1																					
		53KPBF (kit)																					
		53P000 + 53M2E4			D	D	D	D	D	D	D												
		53P000 + 53M2E5										D	D										
	CRIMQ	5382	+D	+D	+D	+D	+D	+D	+D	+D	+D												
		53816	+D	+D	+D	+D	+D	+D	+D	+D	+D												
	long handles	527																					
		582 + series 82																					
	strap	5375			S	S	S	S	S														
pneumatic		1661 + 537D																					
		1661 + 539D																					
hydraulic	50 kN	182/182P (*) + series 82																					
		1823/1824 (*) + series 82																					
		1823P + series 82																					
		1823A1/A2/A3/A4 + series 82																					
		200 (*) + series 82																					
		200PA (*) + series 82																					
	60 kN	1833/1833A1 + series 83																					
	80 kN	183/183P (*) + series 83																					
	120 kN	184P/184PL + series 84																					
	125 kN	184 (*) + series 84																					
	130 kN	186 + series 84																					
battery	55 kN	37A055/37A055A1 + series 83																					
	60 kN	383 (*) + series 83																					
	62 kN	38A062 + series 85																					
	120 kN	384 (*) + series 84																					
	130 kN	38A130 + series 84																					
		38A130L + series 84																					
head	55 kN	200A (*) + series 82																					
	60 kN	2833 + series 83																					
	80 kN	283 (*) + series 83																					
	120 kN	284/284L + series 84																					
		286 + series 84																					

(*) item running out
S = only end-sleevs in a strap
D = only double cable end-sleeves
+D = also double cable end-sleeves in addition to single cable end-sleeves

CRIMPING TOOL GUIDE

FOR UNINSULATED BRASS QUICK-CONNECTORS

- uninsulated female
- uninsulated female flag type
- uninsulated male
- uninsulated female+male
- uninsulated from sheet open brass

Crimping tool				**Section** mm² (AWG/kcmil)								
Type			Code	0,1 (27)	0,25 (22)	0,5 (20)	0,75 (18)	1 (17)	1,5 (16)	2,5 (14)	4 (12)	6 (10)
in-line	**manual**	HB	**530**			■	■	■	■	■	■	■
		CRIM	**531**			■	■	■	■	■	■	■
			5305 (kit)			■	■	■	■	■	■	■
		CRIMDEM	**5313**			■	■	■	■	■	■	■
			5345 (kit)			■	■	■	■	■	■	■
		CRIMPAR	**53P000 + 53M2CL**			■	■	■	■	■	■	■
			53P000 + 53M02C			■	■	■	■	■	■	■
		parallel	**6534 + 631D**	■	■	■	■	■	■	■		
			6534 + 6311D			■	■	■	■	■	■	■
			6534 + 6321D			■	■	■	■	■		
			6534 + 6322D						■	■	■	■
	pneumatic		**1661 + 531D**			■	■	■	■	■	■	■
lateral	**manual**	CRIM	**5311**			■	■	■				
			5312					■	■	■		
		CRIMDEM	**5314**			■	■	■				
			5315					■	■	■		
		parallel	**6534 + 6321D**			■	■	■				
			6534 + 6322D						■	■		

FOR INSULATED QUICK-CONNECTORS

PVC QUICK-CONNECTORS TERMINALS
• insulated and anti-vibrating: female
female totally insulated
male
female+male

NYLON QUICK-CONNECTORS TERMINALS
• insulated and anti-vibrating: female totally insulated
male totally insulated

• flag type totally insulated: female

PVC CYLINDER PLUG
• insulated cylinder plug and anti-vibrating: female
male

NYLON CYLINDER PLUG
• insulated cylinder plug and anti-vibrating: female
male

Crimping tool				**Section** mm² (AWG/kcmil)								
Type			Code	0,1 (27)	0,25 (22)	0,5 (20)	0,75 (18)	1 (17)	1,5 (16)	2,5 (14)	4 (12)	6 (10)
in-line	**manual**	HB	**520**									
		CRIM	**534**									
			5305 (kit)									
		CRIMDEM	**5341**									
			5345 (kit)									
		CRIMPAR	**53P02H**									
			53P000 + 53M02H									
			53KPBF (kit)									
		parallel	**6534 + 636D**									
	pneumatic		**1661 + 534D**									
lateral	**manual**	CRIM	**532**									
		CRIMPAR	**53P000+53M02F**									

CRIMPING TOOL GUIDE

FOR C-SHUNT

- copper bright
- tinned

Crimping tool			Section mm² (AWG/kcmil)															
Type		Code	6 (10)	10 (8)	16 (6)	25 (4)	35 (2)	50 (1/0)	70 (2/0)	95 (3/0)	120 (4/0)	150 (300)	185 (400)	240 (500)	300 (600)	400 (800)	500 (1000)	630 (1250)
manual	long handles	**529**	■	■														
		582 + series 82		■	■	■	■											
hydraulic	50 kN	**182/182P (*) + series 82**		■	■	■	■											
		1823/1824 (*) + series 82		■	■	■	■											
		1823P + series 82		■	■	■	■											
		1823A1/A2/A3/A4 + series 82		■	■	■	■											
		200 (*) + series 82		■	■	■	■											
		200PA (*) + series 82		■	■	■	■											
	60 kN	**1833/1833A1 + series 83**		■	■	■	■	■	■	■								
	80 kN	**183/183P (*) + series 83**		■	■	■	■	■	■	■								
	120 KN	**184P/184PL + series 84**		■	■	■	■	■	■	■	■	■						
	125 kN	**184 (*) + series 84**		■	■	■	■	■	■	■	■	■						
	130 kN	**186 + series 84**		■	■	■	■	■	■	■	■	■						
battery	55 kN	**37A055/37A055A1 + series 83**		■	■	■												
	60 kN	**383 (*) + series 83**		■	■	■	■	■	■	■								
	62 kN	**38A062 + series 85**		■	■	■	■	■										
	120 kN	**384 (*) + series 84**		■	■	■	■	■	■	■	■	■						
	130 kN	**38A130 + series 84**		■	■	■	■	■	■	■	■	■						
		38A130L + series 84		■	■	■	■	■	■	■	■	■						
head	55 kN	**200A (*) + series 82**		■	■	■	■											
	60 kN	**283 (*) + series 83**		■	■	■	■	■	■	■								
	80 kN	**2833 + series 83**		■	■	■	■	■	■	■								
	120 kN	**284/284L + series 84**		■	■	■	■	■	■	■	■	■						
		286 + series 84		■	■	■	■	■	■	■	■	■						

(*) item running out

DEFINITIONS

Term	Definition	Reference
BARREL (OF TERMINAL LUG, CONNECTOR, ETC)	Part of a device into which the conductor to be connected is introduced.	IEV 461-17-06
CLASS 1 CONDUCTORS	Copper or aluminium solid conductors with circular or shaped cross-section for single-core and multi-core cables.	EN 60228
CLASS 2 CONDUCTORS	Copper or aluminum stranded (multiple wires) circular non-compacted (wires with the same circular section) or circular compacted (wires with different circular sections) or shaped for single-core and multiple-core cables.	EN 60228
CLASS 5 CONDUCTORS	Copper flexible conductors (multiple wires) with wires with the same circular section for single-core and multiple-core cables.	EN 60228
CLASS 6 CONDUCTORS	Copper flexible conductors (which are more flexible than class 5 conductors) with wires with the same circular section for for single-core and multiple-core cables.	EN 60228
COMPRESSION JOINTING	Method of securing a connector to a conductor by using a special tool to produce permanent deformation of connector and conductor.	---
MECHANICAL JOINTING	Method of securing a connector to a conductor, for example by means of a bolt or screw working on the latter or by alternative methods.	---
CONNECTOR (CABLES)	Metallic device for connecting a conductor to an equipment terminal or for connecting two or more conductors to each other.	EN 61238-1
INSULATION PIERCING CONNECTOR (IPC)	Connector in which the electrical contact with the conductor is made by metallic protusions which pierce the insulation of the cable core.	IEV 461-11-08
BRANCH CONNECTOR	Metallic device for connecting a branch conductor to a main conductor at an intermediate point on the latter.	IEV 461-17-05
TERMINAL LUG	Metallic device to connect a cable conductor to other electrical equipment.	IEV 461-17-01
CORRENTE NOMINALE	Valore di corrente assegnato dal costruttore, che il connettore può portare con continuità (senza interruzione) e contemporaneamente attraverso tutti i suoi contatti, cablati con il conduttore specificato di più elevata Section, preferibilmente ad una temperatura ambiente di 40°C, senza che sia superata la temperatura limite superiore.	EN 61984
MULTIWAY TERMINAL DEVICE	Connecting device that is made of several terminals, insulated from each other in a common housing of insulation material, which can be split by the user to make connecting devices with one or more terminals.	EN 60998-1
CLEARANCE	Shortest distance between two conductive parts or between a conductive part and the device accessible surface.	EN 60335-1
CABLE TIE	Band or length of material, employing a docking device, used for bundling or tying groups of cables together, securing and/or supporting the cables.	EN 62275
THROUGH CONNECTOR	Metallic device for connecting two consecutive lenghts of a conductor.	IEV 461-17-04
TERMINAL BLOCK	Assembly of terminals in a housing or body of insulating material to facilitate the interconnection amoung multiple conductors.	IEV 581-26-26
FLAT QUICK-CONNECT TERMINAL	Electrical connection consisting of a male tab and a female connector, which can be inserted and withdrawn with or without a tool.	EN 61210
PALM (OF A TERMINAL LUG)	Part of a terminal lug used for the connection to an electrical equipment.	IEV 461-17-07
CABLE GLAND	A device designed to allow the entry of a cable, a flexible cable or an insulated conductor in a casing and to provide sealing and tightness.	EN 62444
RATED IMPULSE VOLTAGE	Voltage derived from the rated voltage and the overvoltage category of the devices, characterizing the specified resistance capability of its insulation against transient overvoltages.	EN 60335-1
RATED VOLTAGE	Value of voltage assigned by the manufacturer to the connector and to which operation and performance characteristics are referred.	EN 61984
RATED INSULATION VOLTAGE	r.m.s. withstand voltage value assigned by the manufacturer to the connector , characterizing the specified (long term) withstand capability of its insulation. The rated insulation voltage is not necessarily equal to the rated voltage, which is primarily related to functional performance.	EN 61984

STANDARDS

Standard	Title
DIN 46228-1	Tubular ferrules without plastic sleeve.
DIN 46228-4	Tubular ferrules with plastic sleeve.
DIN 46234	Terminal ends for solderless connections; ring type without insulation sleeve for copper conductors.
DIN 46235	Cable lugs for compression connections for copper conductors > 6 mm^2.
DIN 46267-1	Uninsulated connectors not resistant to high tensile stress for copper conductors > 6 mm2.
DIN 48083-1	Dies for pressure connections; mechanical presses with nominal compressive force up to 15 and to 60 kN. Fitting dimensions.
DIN 48083-3	Dies for pressure connections; hydraulic presses with nominal compressive force up to 300, up to 450 and up to 1000 kN. Fitting dimensions.
DIN 48083-4	Press dies for compression connections; dimensions of the hexagonal pressing shapes.
DIN 48201-1	Copper stranded conductors.
DIN 48201-5	Aluminium stranded conductor.
EN 60228	Conductors for insulated cables.
EN 60335-1	Household and similar electrical appliances – Safety. Part 1: General requirements.
EN 60352-2	Solderless connections. Part 2: Crimped connections – General requirements, test methods and pratical guidance.
EN 60454-3-1	Pressure-sensitive adhesive tapes for electrical purposes. Part 3: Specifications for individual materials. Sheet 1: PVC film tapes with pressure-sensitive adhesive.
EN 60695-2-10	Fire hazard testing. Part 2-10: Glowing/hot-wire based test methods. Glow-wire apparatus and common test procedure.
EN 60695-2-11	Fire hazard testing. Part 2-11: Glowing/hot wire based tests methods – Glow-wire flammability test method for end products.
EN 60695-2-12	Fire hazard testing. Part 2-12: Glowing/hot wire based tests methods. Glow-wire flammability test method for materials.
EN 60947-1	Low-voltage switchgear and controlgear. Part 1: General uses
EN 60947-7-1	Low-voltage switchgear and controlgear. Part 7-1: Ancillary equipment – Terminal blocks for copper conductors.
EN 60998-1	Connecting devices for low-voltage circuits for household and similar purposes. Part 1: General requirements.
EN 60998-2-1	Connecting devices for low-voltage circuits for household and similar purposes. Part 2-1: Particular requirements for connecting devices as separate entities with screw-type clamping units.
EN 61210	Connecting devices – Flat quick-connect terminations for electrical copper conductors – Safety requirements
EN 61386-1	Conduit systems for cable management. Part 1: General requirements.
EN 61386-21	Conduit systems for cable management. Part 21: Particular requirements – Rigid conduit systems.
EN 61984	Connectors - Safety requirements and tests.
EN 62275	Cable management systems. Cable ties for electrical installations.
EN 62444	Cable glands for electrical installations.
UL 310	Quick-Connect Terminals.
UL 486A-486B	Wire connectors
UL 486C	Splicing Wire Connectors
UL 486F	Bared and Covered ferrules

RETIE CERTIFIED CODES

Terminals

00107, 00113, 00114, 00119, 00120, 00125, 00126, 00130, 00131, 00132, 00137, 00140, 00143, 00145, 00148, 00150, 00151, 00160, 00180, 00190, 00191, 00192, 00193, 00198, 00208, 00213, 00214, 00219, 00220, 00225, 00226, 00230, 00231, 00231B, 00232, 00234, 00237, 00240, 00244, 00245, 00248, 00250, 00251, 00252, 00260, 00280, 00290, 00291, 00292, 00298, 00313, 00314, 00319, 00319B, 00320, 00325, 00326, 00330, 00331, 00332, 00337, 00338, 00340, 00343, 00350, 00352, 00360, 00380, 00390, 00391, 00392, 00395, 00419, 00431, 00438, 00450, 00512, 00520, 00521, 00525, 00531, 00537, 00549, 00562, 00637, 00737, 01002, 01005, 01016, 01017, 01018, 01119, 01120, 01126, 01149, 01191, 01225, 012251, 01226, 01280, 01290, 01319, 013251, 013311, 01390, 01391, 01401, 01411, 01419, 01431, 01437, 01443, 01460, 01525, 01531, 015319, 01537, 01543, 01549, 01560, 01625, 01631, 016319, 01637, 01643, 01649, 01660, 01731, 01737, 017379, 01743, 01749, 01760, 01831, 01837, 01843, 01849, 01860, 01931, 01937, 01943, 01949, 01960, 02145, 02290, 02437, 02443, 02449, 02837, 03137, 03143, 03149, 03155, 03160, 03237, 03243, 03249, 03260, 03343, 03349, 03360, 03449, 03455, 03460, 03461, 03549, 03555, 03560, 03561, 03649, 03661, 03761, 03767, 03861, 03867, 60015, 60025, 60120, 60130, 60142, 60225, 61015, 61020, 61025, 61125, 61130, 61142, 61225, 61230, 70004, 70005, 70007, 71537, 71637, 71643, 71737, 71743, 71843, 71943, 73035, 73125, 73143, 73149, 73202, 73203, 73204, 73208, 73210, 73240, 73249, 74015, 76017, 76026, 80180, 80191, 80280, 80291, 80380, 80392, 80431, 81760, 91103, 91104, 91105, 91205

Screw connections

5160, 5161, 5162, 5163, 5164, 5165, 5166, 5167, 5168, 5251, 5252, 5253, 5261, 5262, 5263, 5264, 5266

Terminal blocks

00110, 00170, 00210, 00270, 00310, 00370, 092, 92/2, 9200, 9201, 9202, 9203, 9204, 94CS2, 94CS3, 9517, 9518, 9520, 9521, 9523, 9524, 95262, 95GF/2, 95GF3, 975, 9926, 996, 997, 998, 9981, 99811, 9982, 99821, 9983, M092, M093, M094, M095, M9023, M9024, M9033, M9034, M9053, M9054, M93CS, M95CS, M95GF

Cable glands

24592, 24692, 2507, 2509, 2511, 2513, 2516, 2520, 2521, 2525, 2529, 2532, 2536, 2540, 2542, 2548, 2599, 2600, 2601, 2602, 2603, 2696, 2697, 2698, 2699, 2700, 2701, 2702, 2703, 2704, 2705, 2720, 2725, 2732, 2740, 2832, 2840, 3451, 3452, 3453, 3454, 3455, 3461, 3462, 3463, 3464, 3465, 3597, 3598, 3599, 3600, 3601, 3602, 3622, 3623, 3624, 3697, 3698, 3699, 3700, 3701, 3702, 4597, 4598, 4599, 4600, 4601, 4602, 4612, 4616, 4620, 4625, 4650, 4712, 4807, 4809, 4811, 4812, 4813, 4816, 4817, 4820, 4821, 4825, 4829, 4832, 4836, 4842, 4848, 4850, 4863, 4907, 4909, 4911, 4912, 4913, 4916, 4917, 4920, 4921, 4925, 4929, 4932, 4936, 4950, 4963

Certificado RETIE

CERT ORGANISMO DE CERTIFICACIÓN RETIE Certificado No.0760

APPROXIMATE CORRESPONDENCE BETWEEN SECTIONS OF THE AMERICAN AND EUROPEAN STANDARD

American Standard sections			European standard sections
AWG	kcmil	(mm²)	mm²
30	-	0,0507	-
29	-	0.0647	-
28	-	0,0804	0,08
27	-	0,102	0,1
26	-	0,128	0,14
25	-	0,162	-
24	-	0,205	0,2 - 0,25
23	-	0,259	0,25
22	-	0,324	0,34
21	-	0,412	-
20	-	0,519	0,5
19	-	0,653	-
18	-	0,823	0,75 - 1
17	-	1,04	1
16	-	1,31	1,5
15	-	1,65	
14	-	2,08	2,5
13	-	2,63	
12	-	3,31	4
11	-	4,17	
10	-	5,26	6
9	-	6,63	
8	-	8,37	10
7	-	10,6	
6	-	13,3	16
5	-	16,8	
4	-	21,2	25
3	-	26,7	
2	-	33,6	35
1	-	42,4	-
1/0 (0)	-	53,5	50
2/0 (00)	-	67,4	70
3/0 (000)	-	85,0	95
4/0 (0000)	-	107,2	120
-	250	127	
-	300	152	150
-	350	177	185
-	400	203	
-	500	253	240
-	600	304	300
-	700	355	-
-	800	405	400
-	900	456	-
-	1000	507	500
-	1250	633	630
-	1500	760	800
-	1750	887	-
-	2000	1010	1000

The table shows the approximate correspondences between the sections of the American standard and the European ones.

NOTE

American and European standards provide normalized sections.

The American standard defines the normalized cross sections of conductors in AWG (American Wire Gauge) and kcmil (short for thousands of circular mils or kcmil). These sections are reported respectively in the first and second columns of the table.
All sections of the American standard can be expressed in cmil, but for all practical purposes only the sections starting from 250 kcmil are expressed in kcmil (1kcmil = 1000 cmil), while the lower sections are expressed in AWG. The American standard also provides both even and odd AWG, but only few manufacturers have cables with odd AWG sections in their catalog. The third column shows the equivalences in mm² (exact correspondences) of the American standard section. These equivalences are taken from UL 1581 (Reference Standard for Electrical Wires, Cables, and Flexible Cords).

The European standard is based on the metric system and defines the normalized cross-sections of conductors in square millimeters (mm²). These sections are in the fourth column of the table and are taken from the EN 60228 standard for sections greater than 0,5 mm².

As you can see, there is no exact correspondence between the normalized sections of the two standards. This means that there are only approximate matches and that each approximation is either over or under. For example, the European standard section of 1,5 mm² can be approximated up or down by the American harmonized sections AWG 15 and AWG 16.

BM terminal lugs have been designed to be used with both native European and American conductors. For this reason, the normalized section of the conductor is specified for each terminal according to both standards. From terminal selection point of view, following cases may arise:
1) Terminal selection for a European standard cable
2) Terminal selection for an American standard cable

To select the terminal, look at conductor section and look for this value in the “mm²” column for the European standard cable and in the “AWG / kcmil” column for the American standard cable.

When you need to replace a European standard cable with an American standard cable or vice versa, you must first find the corresponding cable section based on the design specifications and then select the terminal based on that section.

CONDUCTOR RESISTENCE VALUES

Normalized section of the conductor			Exact conversion	Resistance
mm²	AWG	kcmil	mm²	Ω/km
-	30	-	0,0507	347
-	29	-	0.0647	271
-	28	-	0,0804	218
-	27	-	0,102	172
-	26	-	0,128	138
-	25	-	0,162	108
-	24	-	0,205	85,9
-	23	-	0,259	67,9
-	22	-	0,324	54,3
-	21	-	0,412	42,7
0,5	-	-	0,500	39,0
-	20	-	0,519	33,9
-	19	-	0,653	26,9
0,75	-	-	0,750	26,0
-	18	-	0,823	21,4
1,0	-	-	1,00	19,5
-	17	-	1,04	16,9
-	16	-	1,31	13,5
1,5	-	-	1,50	13,3
-	15	-	1,65	10,6
-	14	-	2,08	8,45
2,5	-	-	2,50	7,98
-	13	-	2,63	6,69
-	12	-	3,31	5,31
4	-	-	4,00	4,95
-	11	-	4,17	4,22
-	10	-	5,26	3,343
6	-	-	6,00	3,300
-	9	-	6,63	2,652
-	8	-	8,37	2,102
10	-	-	10,0	1,910
-	7	-	10,6	1,667
-	6	-	13,3	1,323
16	-	-	16,0	1,210
-	5	-	16,8	1,049
-	4	-	21,2	0,8315
25	-	-	25,0	0,7800
-	3	-	26,7	0,6595
-	2	-	33,6	0,5231
35	-	-	35,0	0,5540
-	1	-	42,4	0,4146
50	-	-	50,0	0,3860
-	1/0 (0)	-	53,5	0,3287
-	2/0 (00)	-	67,4	0,2608
70	-	-	70,0	0,2720
-	3/0 (000)	-	85,0	0,2069
95	-	-	95,0	0,2060
-	4/0 (0000)	-	107,2	0,1640
120	-	-	120	0,1610
-	-	250	127	ns
150	-	-	150	0,1290
-	-	300	152	ns
-	-	350	177	ns
185	-	-	185	0,1060
-	-	400	203	ns
240	-	-	240	0,0801
-	-	500	253	ns
300	-	-	300	0,0641
-	-	600	304	ns
-	-	700	355	ns
400	-	-	400	0,0486
-	-	800	405	ns
-	-	900	456	ns
500	-	-	500	0,0384
-	-	1000	507	ns
630	-	-	630	0,0287
-	-	1250	633	ns
-	-	1500	760	ns
-	-	1750	887	ns
-	-	2000	1010	ns

The table shows the resistance values for the normalized sections of the European standard expressed in square millimeters (mm²) and normalized sections of the American standard expressed in AWG (American Wire Gauge) and kcmil (short for thousands of circular mils).

NOTES

The resistances of the European normalized sections are taken from the EN 60228 standard starting from 0.5 mm², while the resistances of the American normalized sections are taken from the UL 1581 standard (Reference Standard for Electrical Wires, Cables, and Flexible Cords). In both cases, the resistances are for bare conductors at 20° C. The acronym 'ns' stands for 'not specified'.

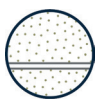
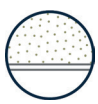
The European and American standard have normalized sections, however there is no exact correspondence between the normalized sections of the two standards. This means that replacing a native mm² cable with a native AWG/kcmil cable always involves oversizing or undersizing and vice versa. The replacement is therefore not an automatic operation but must be performed from time to time according to the application and project specifications.

The conductor resistance value is a fundamental parameter for evaluating the different impact of the Joule effect as the conductor section changes.

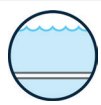
DEGREE OF PROTECTION PROVIDED BY CASING (IP CODE)

IP degree ranks and evaluates the degree of protection provided by casings against the intrusion of solid particles (such as objects and dust) and the access of fluids, according to EN 60529. The IP degree is given by the combination of the first and the second digit of the following tables.

1° DIGIT
GRADE OF PROTECTION AGAINST SOLID OBJECTS

MEANING FOR THE PROTECTION OF EQUIPMENT	DEGREE	MEANING FOR THE PROTECTION OF PEOPLE
No protection	0	
Protection against solid objects with a diameter up to 50 mm	1	Protection against contact with large areas of the body (e.g. back of the hand)
Protection against solid objects with a diameter up to 12.5 mm	2	Protection against contact with fingers
Protection against solid objects with a diameter up to 2.5 mm	3	Protection against tools and wires with a diameter over 2.5 mm
Protection against solid objects with a diameter up to 1 mm	4	Protection against tools and wires with a diameter over 1 mm
Protection against dust: limited ingress (i.e. no harmful deposit)	 5	Dust protection
Total protection against dust	 6	Dust protection

2° DIGIT
DEGREE OF PROTECTION AGAINST WATER

DEGREE	MEANING FOR THE PROTECTION OF EQUIPMENT
0	No protection
1	Protection against vertically falling drops of water (e.g. condensation) for 10 minutes
2	Protection against direct sprays of water up to 15 degrees from the vertical for 2.5 minutes for each position
3	Protection against direct sprays of water up to 60 degrees from the vertical for 10 minutes
4	Protection against water sprayed from all directions for 10 minutes
5	Protected against low-pressure jets of water from all directions for at least 3 minutes
6	Protected against strong jets of water from all directions for at least 3 minutes
7	Protected against the effect of immersion between 15 cm and 1 m for 30 minutes
 8	Protected against the conditions given by the manufacturer, which must be stricter than for digit 7

ANALYTICAL INDEX

Code	Page
00101	18
00102	21
00105	29
00107	18
001071	80
00108	21
00109	18
00110	28
00113	18
00114	21
00119	18
001191	80
00120	21
00125	18
001251	80
00126	21
00130	33
00131	18
001311	80
00132	21
00137	18
00140	32
00143	18
00145	29
00148	29
00150	23
00151	23
00152	25
00153	25
00160	26
00162	27
00170	28
00180	31
00190	29
00191	30
00192	30
00193	30
00198	29
00201	18
00202	21
00205	29
00207	18
00208	21
00209	18
00210	28
00213	18
00214	21
00219	18
002191	80
00220	21
00225	18
002251	80
00226	21
00230	33
00231	18
002311	80
00232	21
00234	33
00237	18
00240	32
00243	18
00244	32
00245	29
00248	29
00250	23
00251	23
00252	25
00253	25
00260	26
00262	27
00270	28
00280	31
00290	29
00291	30
00292	30
00293	30
00298	29
00310	28
00313	18
00314	21
00319	18
003191	80
00320	21
00325	18
003251	80
00326	21
00330	33
00331	18
003311	80
00332	21
00337	18
003371	80
00338	21
00340	32
00343	18
003431	80
00344	21
00350	23
00352	25
00353	25
00360	26
00362	27
00370	28
00380	31
00390	29
00391	29
00392	30
00393	29
00395	29
00405	336
00410	121
00411	93
00412	94
00413	96
00417	95
00419	80
004191	76
004191	78
00420	80
004201	82
00421	84
00422	84
00423	85
00424	85
004261	82
00431	80
004311	76
004311	78
00432	80
00437	80
004371	76
004371	78
00438	80
00441	97
00442	98
00443	80
004431	76
004431	78
00444	80
004491	76
004491	78
00450	83
00470	28
00500	44
005001	44
005002	44
005003	44
005004	44
005005	44
00501	44
005011	44
005012	44
00502	44
005021	44
005022	44
005023	44
00503	44
005031	44
005032	44
005033	44
00504	44
005041	44
005042	44
005043	44
00505	44
00506	44
005061	45
005062	44
00507	45
00508	45
005081	45
00509	45
00510	45
00511	45
00512	45
00513	45
00514	45
00515	45
00516	45
005161	45
005162	45
00517	45
005171	45
005172	45
00518	45
005181	45
00519	45
00520	45
00521	45
00522	45
005231	82
00525	80
005251	76
005251	78
00526	80
005261	82
00531	80
005311	76
005311	78
00532	80
00537	80
005371	76
005371	78
00538	80
00543	80
005431	76
005431	78
00544	80
00547	80
00549	80
005491	76
005491	78
00550	83
00551	47
00552	47
00553	47
005531	47
00554	47
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00701	44
00702	44
007021	44
007022	44
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009614	78
01002	37
01005	37
01009	37
01011	38
01013	38
01014	38
01016	38
01017	38
01018	39
01019	39
01020	38
01021	38
01022	39
01023	39
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01032	119
01033	119
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01036	119
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01043R	119
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01060N	120
01060R	120
01060V	120
01064	120
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01101	41
01102	42
01107	41
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01108	42
01113	41
01114	42
01119	41
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01125	41
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01126	42
01131	41
011311	48
01132	42
01137	41
01143	41
01145	35
01146	35
01148	35
01149	35
01150	42

Code	Page
01151	42
01160	59
01162	59
01180	37
01181	37
01190	35
01191	35
01195	36
01196	36
01198	36
01199	36
01201	41
01202	42
01207	41
01208	42
01213	41
01214	42
01219	41
012191	48
01220	42
01225	41
012251	48
01226	42
01231	41
012311	48
01232	42
01237	41
01243	41
01250	42
01251	42
01260	59
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01280	37
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01290	35
01291	35
01295	36
01296	36
01298	36
01299	36
01313	41
01314	42
01319	41
013190	48
013191	48
01320	42
01325	41
013250	48
013251	48
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01331	41
013310	48
013311	48
01332	42
01337	41
013370	48
013371	48
01338	42
01343	41
013431	48
01344	42
01350	42
01360	59
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01390	35
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01400	72
014001	73
01401	72
014011	73
01402	72
014021	73
01403	72
014031	73
01404	72
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01405	72
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01410	72
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01411	72
014111	73
01412	72
014121	73
01413	72
014131	73
01414	72
014141	73
01415	72
014151	73
01416	72
014161	73
01417	72
014171	73
01418	72
014181	73
01419	48
01419	56
014191	50
0141945	54
014199	52
01420	82
01426	82
01431	48
01431	56
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0143145	54
014319	52
01437	48
01437	56
014371	50
0143745	54
014379	52
01443	48
01443	56
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0144345	54
014439	52
01449	48
01449	56
014491	50
0144945	54
014499	52
01450	83
01460	59
01501	43
015011	43
01502	43
015021	43
015025	43
01503	43
01504	43
015041	43
01505	43
01506	43
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01507	43
01508	43
015081	43
01509	43
015094	43
01510	43
01511	43
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01515	43
015155	43
01516	43
015163	43
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01519	43
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01521	43
01523	82
01525	48
01525	56
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015259	52
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01637	48
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01649	48
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01660	59
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019314	56
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019319	52
01937	48
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019379	52
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019434	56
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01950	83
01955	48
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019559	52
01960	59
01961	48
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019614	56
0196145	54
019619	52
02002	37
02005	37
02009	37
02011	38
02013	38
02014	38
02050	83
02145	35
02146	35
02148	35
02149	35
02180	37
02181	37
02190	35
02191	35
02195	36
02196	36
02198	36
02199	36
02230	118
02240	118
02280	37
02281	37
02290	35
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02295	36
02296	36
02298	36
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03143	48
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0314345	54
031439	52
03149	48
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031494	56
0314945	54
031499	52
03155	49
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031554	56
0315545	54
031559	52
03160	59
03161	49
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0316145	54
031619	52
03237	49
032371	50
032373	57
032374	56
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032379	52
03243	49
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032614	56
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032619	52
03337	49
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033373	57
033374	56
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033379	52
03343	49
033431	50
033433	57
033434	56

Code	Page
0334345	54
033439	52
03349	49
033491	50
033494	56
0334945	54
033499	52
03355	49
033551	50
033554	56
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053614	78
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054494	79
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054554	79
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054614	79
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05555	81
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05661	77
05667	77
1100	196
1101	196
1105	199
1107	118
1108	207
11081	207
1112	320
1113	320
1114	320
1115	320
1116	320
1120	320
1121	320
1122	320
1123	320
1130	320
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1133	320
1136	316
1140	324
11401	324
11402	324
11403	324
11404	324
11405	324
11406	324
11407	324
11409	324
1141	325
1142	325
1151	320
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1213	327
1220	327
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1225	328
1232	327
1233	327
1243	327
1251	328
1261	328
1273	328
1274	328
1310	315
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1335	316
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1341	318
1342	318
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1351	317
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1354	317
1360	318
1361	318
1363	318
1364	318
1370	317
1371	317
1372	317
1410	335
1423	335
1424	335
1551	335
1552	335
1600	281
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1620	333
1621	333
1625	333
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1661	280
16698	331
168	279
1710	334
1716	334
1760	334
1761	334
1770	334
1771	334
18030	336
18030M1	336
1814	337
1814A1	337
1818	336
182010	262
182015	262
182016	262
182018	262
182024	262
182025	262
182035	262
182110	262
182116	262
182125	262
182135	262
182150	262
182170	262
182195	262
182210	262
182225	262
182235	262
182310	262
182316	262
182325	262
182335	262
1823A1	253
1823A2	253
1823A3	253
1823A4	253
1823P	253
182435	262
182450	262
182495	262
182512	262
182515	262
182550	262
182570	262
182595	262
182612	262
182615	262
182650	262
182670	262
182695	262
183010	263
183016	263
183024	263
183025	263
183035	263
183050	263
183110	263
183116	263
183125	263
183135	263
183150	263
183170	263
183195	263
183210	263
183225	263
183235	263
183270	263
183295	263
1833	254
183310	263
183316	263
183324	263
183325	263
183335	263
183350	263
1833A1	254
183435	263
183450	263
183495	263
183512	263
183515	263
183550	263
183570	263
183595	263
183612	263
183615	263
183650	263
183670	263
183695	263
183704	263
183706	263
183710	263
183715	263
183716	263
183718	263
183724	263
183725	263
184010	264
184012	264
184015	264
184016	264
184018	264
184024	264
184025	264
184030	264
184035	264
184040	264
184050	264
184070	264
184095	264
184110	264
184112	264
184115	264
184116	264
184118	264
184124	264
184125	264
184135	264
184150	264
184170	264
184195	264
184210	264
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184235	264
184270	264
184295	264
184310	264
184316	264
184325	264
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184515	264
184518	264
184524	264
184530	264
184540	264
184550	264
184570	264
184595	264
184612	264

Code	Page
184615	264
184650	264
184670	264
184695	264
184706	264
184710	264
184712	264
184715	264
184716	264
184718	264
184724	264
184725	264
184730	264
184735	264
184740	264
184750	264
184770	264
184795	264
184P	254
184PL	254
185	275
185010	265
185012	265
185015	265
185016	265
185018	265
185024	265
185025	265
185030	265
185035	265
185050	265
18506	274
185070	265
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185125	265
185135	265
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18516	274
185170	265
18518	274
185195	265
185210	265
185225	265
185235	265
185250	265
185310	265
185316	265
185325	265
185424	265
185435	265
185450	265
185495	265
185512	265
185515	265
185550	265
185570	265
185595	265
1856	275
185650	265
185670	265
185695	265
185706	265
185710	265
185712	265
185715	265
185716	265
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185724	265
185725	265
185730	265
185735	265
185750	265
185770	265
185795	265
186	255
186415	266
186424	266
186450	266
186470	266
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186724	266
186750	266
186770	266
186815	266
186824	266
186850	266
186870	266
18691	266
18692	266
18693	266
18694	266
187	269
188	270
189	270
1919	329
1939	329
1941	330
1942	330
1943	330
1944	330
1949	329
1950	329
1976	329
22	103
23	103
2450	182
2451	182
2452	182
2453	182
2454	182
2455	182
2456	182
2457	182
2458	182
2459	182
24592	182
24593	182
2460	182
2461	182
2462	182
2463	182
2464	182
2465	182
2466	182
2467	182
2468	182
2469	182
24692	182
24693	182
2507	179
2507L	179
2509	179
2509L	179
2511	179
2511L	179
2512	176
2512L	176
2513	179
2513L	179
2516	179
2516L	179
2517	176
2517L	176
2520	176
2520L	176
2521	179
2521L	179
2525	176
2525L	176
2529	179
2529L	179
2532	176
2532L	176
2536	179
2536L	179
2540	176
2540L	176
2542	179
2542L	179
2548	179
2548L	179
2550	176
2550L	176
2563	176
2563L	176
2596	180
2597	180
2598	180
2599	180
2600	180
2601	180
2602	180
2603	180
2604	180
2605	180
2612	178
2616	178
2620	178
2625	178
2632	178
2640	178
265	287
2650	178
2663	178
267	287
26708	287
26710	287
26711	287
26714	287
26715	287
26717	287
26718	287
26719	287
26722	287
267E	287
2691	222
269111	223
269112	223
269113	223
269114	223
26912	223
269121	223
269122	223
269123	223
26913	222
26914	222
2696	180
2697	180
2698	180
2699	180
270	285
2700	180
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2703	180
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2705	180
2712	177
2716	177
2720	177
2725	177
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2750	177
2763	177
2796	181
2797	181
2798	181
2799	181
2800	181
2801	181
2802	181
2803	181
2804	181
2805	181
2812	177
2816	177
2820	177
2825	177
2832	177
2833	283
284	283
2840	177
284L	283
2850	177
286	284
2863	177
287	286
288	286
289	286
301	277
302	277
303	277
304	277
310	278
311	278
312	278
313	278
314	278
320	279
321	279
322	279
323	279
324	279
3451	175
3452	175
3453	175
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3462	175
3463	175
3464	175
3465	175
3596	170
3597	170
3598	170
3599	170
3600	170
3601	170
3602	170
3603	170
3604	170
3605	170
3696	171
3697	171
3698	171
3699	171
3700	171
3701	171
3702	171
3703	171
3704	171
3705	171
37A055	257
37A055A1	257
37T055	271
38A062	258
38A130	259
38A130L	259
38T130	272
39B2AH	260
39B2AH	273
39B5AH	260
39B5AH	273
39C220	260
39C220	273
4007	166
4007L	169
4007LN	169
4007N	166
4007S	170
4007SN	170
4009	166
4009L	169
4009LN	169
4009N	166
4009S	170
4009SN	170
4011	166
4011L	169
4011LN	169
4011N	166
4011S	170
4011SN	170
4013	166
4013L	169
4013LN	169
4013N	166
4013S	170
4013SN	170
4016	166
4016L	169
4016LN	169
4016N	166
4016S	170
4016SN	170
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4021L	169
4021LN	169
4021N	166
4021S	170
4021SN	170
4029	166
4029L	169
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4029N	166
4036	166
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4036N	166
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4042LN	169
4042N	166
4048	166
4048L	169
4048LN	169
4048N	166
4206	183
4213	183
4220	183
4228	183
4238	183
4307	166
4309	166
4311	166
4313	166
4316	166
4321	166
4329	166
4336	166
4342	166
4348	166
4596	173
4596N	173
4597	173
4597N	173
4598	173
4598N	173
4599	173
4599N	173
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4600N	173
4601	173
4601N	173
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4602N	173
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4640	165
4640N	165
4650	165
4650N	165
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4663N	165
4707	167
4707N	167
4709	167
4709N	167
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4711N	167
4712	161
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4713	167
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4720	161
4720N	161
4721	167
4721N	167
4725	161
4725N	161
4729	167
4729N	167
4732	161
4732N	161
4736	167

Code	Page
4736N	167
4740	161
4740N	161
4742	167
4742N	167
4748	167
4748N	167
4750	161
4750N	161
4763	161
4763N	161
4807	172
4807N	172
4809	172
4809N	172
4811	172
4811N	172
4812	164
4812N	164
4813	172
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4817	164
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4820	164
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4825	164
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4832	164
4832N	164
4836	172
4836N	172
4840	164
4840N	164
4842	172
4842N	172
4848	172
4848N	172
4850	164
4850N	164
4863	164
4863N	164
4907	168
49071	168
4907G	174
4909	168
49091	168
4909G	174
4911	168
49111	168
4911G	174
4912	160
4912G	165
4912L	162
4912LN	162
4912N	160
4912S	163
4912SN	163
4913	168
49131	168
4913G	174
4916	168
49161	168
4916G	174
4917	160
4917G	165
4917L	162
4917LN	162
4917N	160
4917S	163
4917SN	163
4920	160
4920G	165
4920L	162
4920LN	162
4920N	160
4920S	163
4920SN	163
4921	168
49211	168
4921G	174
4925	160
4925G	165
4925L	162
4925LN	162
4925N	160
4925S	163
4925SN	163
4929	168
49291	168
4929G	174
4932	160
4932G	165
4932L	162
4932LN	162
4932N	160
4936	168
49361	168
4936G	174
4940	160
4940G	165
4940L	162
4940LN	162
4940N	160
4942G	174
4948G	174
4950	160
4950G	165
4950L	162
4950LN	162
4950N	160
4963	160
4963G	165
4963L	162
4963LN	162
4963N	160
500D	280
510	251
511	251
512	252
513	252
5140	104
5141	104
5142	104
5143	104
5144	105
5145	105
5160	104
520	226
523	251
524	249
525	249
5251	102
526	250
5261	102
5262	102
5263	102
5264	102
5265	102
5266	102
527	250
528	250
530	226
5305	232
531	230
5311	230
5312	230
5313	235
5314	235
5315	235
531D	280
532	231
532D	280
533	229
5331	234
534	228
5341	233
5345	237
534D	280
535	231
5351	236
535D	280
537	229
5371	234
5375	246
537D	280
53816	245
5382	244
539	229
5391	234
539D	280
53K000	242
53KPBF	242
53L02C	239
53M02C	239
53M02E	239
53M02F	239
53M02H	239
53M03C	239
53M13C	239
53M2C2	239
53M2E1	239
53M2E4	239
53M2E5	239
53M5D1	239
53M5D2	239
53M5N1	239
53M5N2	239
53MMC4	239
53P000	239
53P02E	240
53P02H	240
53P2E1	240
53P5D1	241
53P5YA	243
53PMC4	241
540	227
541	227
542	227
543	231
5431	236
543D	280
549	243
568	267
5681	267
570	268
571	269
572	269
575	268
576	268
582	252
60015	216
60020	216
60025	216
60115	216
60120	216
60125	216
60130	216
60135	216
60142	216
60157	216
60166	216
60215	216
60220	216
60225	216
60230	216
61015	215
61020	215
61025	215
61115	215
61120	215
61125	215
61130	215
61135	215
61142	215
61157	215
61166	215
61215	215
61220	215
61225	215
61230	215
6311D	248
6313D	248
6314D	248
6315D	248
6316D	248
6317D	248
631D	248
6321D	248
6322D	248
634D	248
635D	248
636D	248
6534	247
65341	248
65342	248
70000	71
70001	71
70002	71
70003	71
70004	71
70005	71
70006	71
70007	71
70008	71
70009	71
70010	71
70011	71
70202	69
70203	69
70204	69
70205	69
70206	69
70207	69
70208	69
70209	69
70232	69
70243	69
70253	69
70254	69
70264	69
70265	69
70275	69
70276	69
70284	69
70285	69
70286	69
70287	69
70297	69
70298	69
70402	70
70403	70
70404	70
70405	70
70406	70
70407	70
70408	70
70409	70
70602	71
70603	71
70604	71
70605	71
70606	71
70607	71
70608	71
70609	71
71537	58
716	285
71637	58
71737	58
71743	58
71837	58
71843	58
71849	58
71943	58
71949	58
71955	58
71961	58
72025	67
72035	67
72050	67
72070	67
72095	67
72120	67
72150	67
72200	67
72240	67
72300	67
72400	67
72500	67
72630	67
73025	65
73035	65
73050	65
73070	65
73095	65
73120	65
73125	65
73143	58
73149	58
73150	65
73155	58
73161	58
73200	65
73201	66
73202	66
73203	66
73204	66
73205	66
73206	66
73207	66
73208	66
73209	66
73210	66
73211	66
73212	66
73213	66
73214	66
73240	65
73243	58
73249	58
73255	58
73261	58
73300	65
73349	58
73355	58
73361	58
73367	58
73400	65
73455	58
73461	58
73467	58
735	285
73500	65
73555	58
73561	58
73567	58
73630	65
73661	58
73761	58
75010	67
75016	67
75017	67
75025	67
75035	67
75050	67
75070	67
75095	67
76016	68
76017	68
76025	68
76026	68
76035	68
76036	68
76050	68
76051	68
76070	68
76071	68
76095	68
76096	68
76097	68
76120	68
76121	68
76150	68
76151	68
76152	68
76185	68
76186	68
76187	68
76240	68
76241	68
76242	68
770	285
79135	74
79235	74
795	285
80107	20
80108	23
80113	20
80114	23
80119	20
80120	23
80125	20
80126	23
80130	34
80131	20
80132	23
80137	20
80140	33
80143	20
80150	24
80160	26
80180	32

Code	Page
80191	30
80192	30
80193	30
80195	31
80207	20
80208	23
80213	20
80214	23
80219	20
80220	23
80225	20
80226	23
80230	34
80231	20
80232	23
80237	20
80240	33
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80280	32
80291	30
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80314	23
80319	20
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80343	20
80344	23
80350	24
80360	26
80380	32
80390	30
80392	30
80395	30
80401	89
80402	92
80403	88
80404	91
80405	90
80411	86
80412	87
80415	86
80416	87
80425	62
80431	62
80460	26
80531	62
80537	62
805379	63
80543	62
805439	63
80560	26
80631	62
80637	62
80643	62
80649	62
806499	63
80660	26
80737	62
80743	62
80749	62
807499	63
80837	62
80843	62
80849	62
808499	63
80861	62
80937	62
80943	62
80949	62
809499	63
80961	62
81001	75
81002	75
81006	75
81010	75
81016	75
81025	75
81035	75
81050	75
81070	75
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81120	75
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81240	75
81300	75
81400	75
81460	64
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81660	64
81760	64
81860	64
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83143	62
83149	62
831499	63
83160	64
83161	62
831619	63
83243	62
83249	62
83260	64
83261	62
832619	63
83267	62
83343	62
83349	62
83360	64
83361	62
83367	62
83443	62
83449	62
83460	64
83461	62
83467	62
83549	62
83560	64
83561	62
83567	62
90107	19
90108	22
90113	19
90114	22
90119	19
90120	22
90125	19
90126	22
90131	19
90132	22
90137	19
90143	19
90150	24
90151	24
90160	27
90207	19
90208	22
90213	19
90219	19
90220	22
90225	19
90226	22
90231	19
90232	22
90237	19
90243	19
90250	24
90251	24
90260	27
90314	22
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90320	22
90325	19
90326	22
90331	19
90332	22
90337	19
90343	19
90350	24
90360	27
90501	46
90502	46
90503	46
90504	46
90506	46
90601	46
90602	46
90603	46
90604	46
90702	46
90706	46
91103	40
91104	40
91105	40
91113	40
91114	40
91115	40
91203	40
91204	40
91205	40
91213	40
91214	40
91215	40
91501	46
91502	46
91503	46
91504	46
91506	46
91601	46
91602	46
91603	46
91604	46
91702	46
91706	46
917313	79
918313	79
918433	79
919313	79
919433	79
92/1	128
92/10	128
92/11	128
92/2	128
92/3	128
92/4	128
92/5	128
92/6	128
92/7	128
92/8	128
92/9	128
9200	124
9201	124
9202	124
9203	124
9204	124
92103	40
92104	40
92105	40
92113	40
92114	40
92115	40
92203	40
92204	40
92205	40
92213	40
92214	40
92215	40
92CS1	129
92CS10	129
92CS11	129
92CS2	129
92CS3	129
92CS4	129
92CS5	129
92CS6	129
92CS7	129
92CS8	129
92CS9	129
92FS1	143
92FS10	143
92FS11	143
92FS2	143
92FS3	143
92FS4	143
92FS5	143
92FS6	143
92FS7	143
92FS8	143
92FS9	143
92GF1	142
92GF10	142
92GF11	142
92GF2	142
92GF3	142
92GF4	142
92GF5	142
92GF6	142
92GF7	142
92GF8	142
92GF9	142
92GFCS	143
93/1	130
93/10	130
93/11	130
93/2	130
93/3	130
93/4	130
93/5	130
93/6	130
93/7	130
93/8	130
93/9	130
931373	79
931433	79
932373	79
932433	79
933	141
933373	79
933433	79
933GF	152
934493	79
935	141
935493	79
935GF	152
93CS1	131
93CS10	131
93CS11	131
93CS2	131
93CS3	131
93CS4	131
93CS5	131
93CS6	131
93CS7	131
93CS8	131
93CS9	131
93FS1	145
93FS10	145
93FS11	145
93FS2	145
93FS3	145
93FS4	145
93FS5	145
93FS6	145
93FS7	145
93FS8	145
93FS9	145
93GF1	144
93GF10	144
93GF11	144
93GF2	144
93GF3	144
93GF4	144
93GF5	144
93GF6	144
93GF7	144
93GF8	144
93GF9	144
93GFCS	145
93HCS1	133
93HCS10	133
93HCS11	133
93HCS2	133
93HCS3	133
93HCS4	133
93HCS5	133
93HCS6	133
93HCS7	133
93HCS8	133
93HCS9	133
93HFS1	147
93HFS10	147
93HFS11	147
93HFS2	147
93HFS3	147
93HFS4	147
93HFS5	147
93HFS6	147
93HFS7	147
93HFS8	147
93HFS9	147
93HGF1	146
93HGF10	146
93HGF11	146
93HGF2	146
93HGF3	146
93HGF4	146
93HGF5	146
93HGF6	146
93HGF7	146
93HGF8	146
93HGF9	146
94/1	134
94/10	134
94/11	134
94/2	134
94/3	134
94/4	134
94/5	134
94/6	134
94/7	134
94/8	134
94/9	134
9416	108
9425	108
9435	108
94CS1	135
94CS10	135
94CS11	135
94CS2	135
94CS3	135
94CS4	135
94CS5	135
94CS6	135
94CS7	135
94CS8	135
94CS9	135
94FS1	149
94FS10	149
94FS11	149
94FS2	149
94FS3	149
94FS4	149
94FS5	149
94FS6	149
94FS7	149
94FS8	149
94FS9	149
94GF1	148
94GF10	148
94GF11	148
94GF2	148
94GF3	148
94GF4	148
94GF5	148
94GF6	148
94GF7	148
94GF8	148
94GF9	148
94GFCS	149
95/1	136
95/10	136
95/11	136
95/2	136
95/3	136
95/4	136
95/5	136
95/6	136
95/7	136
95/8	136
95/9	136
9516	153
9517	153
9518	153
9519	153
9520	153
9521	153
9522	153
9523	153
9524	153
95261	113
95262	113
95263	113
95264	113
95CS1	137
95CS10	137
95CS11	137
95CS2	137
95CS3	137
95CS4	137
95CS5	137

Code	Page
95CS6	137
95CS7	137
95CS8	137
95CS9	137
95FS1	151
95FS10	151
95FS11	151
95FS2	151
95FS3	151
95FS4	151
95FS5	151
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95GF2	150
95GF3	150
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95GF5	150
95GF6	150
95GF7	150
95GF8	150
95GF9	150
95GFCS	151
963	138
963CS	138
963T	140
971	139
971CS	140
972	139
972CS	140
973	139
973CS	140
974	139
974CS	140
975	139
975CS	140
991	108
992	108
9924	108
9924CS	109
9926	210
993	108
993CS	109
994	108
994CS	109
995	108
996	110
99601	112
9960CS	109
9961CS	109
997	111
998	110
9981	111
99811	112
9982	112
99821	112
9983	111
99831	112
9984	110
99841	112
9985	210
B0824	186
B0901	195
B0902	195
B0903	195
B0904	196
B0905	194
B0906	194
B1025	186
B1025M	186
B1025V0	188
B1090	186
B1225	186
B1225M	186
B1248	186
B1290	186
B1436	186
B1436M	186
B1536V0	188
B1576	186
B1590	186
B1625	186
B1625M	186
B1648	186
B1648M	186
B1948	186
B1948M	186
B2025	186
B2025M	186
B2036	186
B2036M	186
B2036V0	188
B2048	186
B2048M	186
B2048V0	188
B2076	186
B2548	186
B2548M	186
B2936	186
B2936M	186
B2976	186
B3048	186
B3048M	186
B3048V0	188
B3736	186
B3748	186
B3776	186
B3848V0	188
B3876V0	188
B3948	186
B4348	186
B4390	186
B4576	186
B5348	186
B5390	186
B5476	186
B7190	186
B7576	186
B7890	186
B8190	186
B9021	114
B9022	114
B9023	114
B9024	114
B9031	115
B9032	115
B9033	115
B9034	115
B9051	116
B9052	116
B9053	116
B9054	116
BH1125	190
BH2048	190
BH3076	190
BL1025	189
BL1436	189
BL2025	189
BL2048	189
BL3048	189
BL3748	189
BL3776	189
BP1536	191
BP2048	191
BR1576	190
BR2076	190
BR3076	190
BT11125	192
BT12248	192
BT21025	191
BT22025	191
BV2312	197
BV2319	197
BX1025	188
BX1536	188
BX2036	188
BX2048	188
BX3048	188
BX3848	188
BX3876	188
EAB1909NE	293
ESB1510BI	290
ESB1510BL	290
ESB1510GI	290
ESB1510GR	290
ESB1510GV	290
ESB1510MA	290
ESB1510NE	290
ESB1510RO	290
ESB1510VE	290
ESB1525BI	290
ESB1525BL	290
ESB1525GI	290
ESB1525GR	290
ESB1525GV	290
ESB1525MA	290
ESB1525NE	290
ESB1525RO	290
ESB1525VE	290
ESB1925BI	290
ESB1925BL	290
ESB1925GI	290
ESB1925GR	290
ESB1925GV	290
ESB1925MA	290
ESB1925NE	290
ESB1925RO	290
ESB1925VE	290
ESB2525BI	290
ESB2525BL	290
ESB2525GI	290
ESB2525GR	290
ESB2525GV	290
ESB2525MA	290
ESB2525NE	290
ESB2525RO	290
ESB2525VE	290
ESC1920NE	291
ETA1920NE	292
F0011	307
F0012	307
F0013	307
F0501	311
F0511	311
F0521	310
F0531	310
F1311	308
F1411	309
GBA030SNE	206
GBA060SNE	206
GBA090SNE	206
GBA120SNE	206
GBA190SNE	206
GBA240SNE	206
GBS012BBI	202
GBS012BBL	202
GBS012BNE	202
GBS012BRO	202
GBS012BTR	202
GBS016BBI	202
GBS016BBL	202
GBS016BNE	202
GBS016BRO	202
GBS016BTR	202
GBS016MBL	204
GBS016MNE	204
GBS016MRO	204
GBS024BBI	202
GBS024BBL	202
GBS024BNE	202
GBS024BRO	202
GBS024BTR	202
GBS024MBL	204
GBS024MNE	204
GBS024MRO	204
GBS024SBI	205
GBS024SBL	205
GBS024SNE	205
GBS024SRO	205
GBS024STR	205
GBS032BBI	202
GBS032BBL	202
GBS032BGV	202
GBS032BNE	202
GBS032BRO	202
GBS032BTR	202
GBS032MBL	204
GBS032MGV	204
GBS032MNE	204
GBS032MRO	204
GBS032SBI	205
GBS032SBL	205
GBS032SGV	205
GBS032SNE	205
GBS032SRO	205
GBS032STR	205
GBS048BBI	202
GBS048BBL	202
GBS048BGV	202
GBS048BNE	202
GBS048BRO	202
GBS048BTR	202
GBS048MBL	204
GBS048MGV	204
GBS048MNE	204
GBS048MRO	204
GBS048SBI	205
GBS048SBL	205
GBS048SGV	205
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GBS048SRO	205
GBS048STR	205
GBS064BBI	202
GBS064BBL	202
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GBS064BNE	202
GBS064BRO	202
GBS064BTR	202
GBS064MBL	204
GBS064MGV	204
GBS064MNE	204
GBS064MRO	204
GBS064SBI	205
GBS064SBL	205
GBS064SGV	205
GBS064SNE	205
GBS064SRO	205
GBS064STR	205
GBS095BBI	202
GBS095BBL	202
GBS095BGV	202
GBS095BNE	202
GBS095BRO	202
GBS095BTR	202
GBS095MBL	204
GBS095MGV	204
GBS095MNE	204
GBS095MRO	204
GBS095SBI	205
GBS095SBL	205
GBS095SGV	205
GBS095SNE	205
GBS095SRO	205
GBS095STR	205
GBS102BBI	203
GBS102BBL	203
GBS102BNE	203
GBS102BRO	203
GBS102BTR	203
GBS127BBI	202
GBS127BBL	202
GBS127BGV	202
GBS127BNE	202
GBS127BRO	202
GBS127BTR	202
GBS127MBL	204
GBS127MGV	204
GBS127MNE	204
GBS127MRO	204
GBS127SBI	205
GBS127SBL	205
GBS127SGV	205
GBS127SNE	205
GBS127SRO	205
GBS127STR	205
GBS190BBI	203
GBS190BBL	203
GBS190BGV	203
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GBS190BRO	203
GBS190BTR	203
GBS190MBL	204
GBS190MGV	204
GBS190MNE	204
GBS190MRO	204
GBS190SBI	205
GBS190SBL	205
GBS190SGV	205
GBS190SNE	205
GBS190SRO	205
GBS190STR	205
GBS254BBI	203
GBS254BBL	203
GBS254BGV	203
GBS254BNE	203
GBS254BRO	203
GBS254BTR	203
GBS254MBL	204
GBS254MGV	204
GBS254MNE	204
GBS254MRO	204
GBS254SBI	205
GBS254SBL	205
GBS254SGV	205
GBS254SNE	205
GBS254SRO	205
GBS254STR	205
GBS318BBI	203
GBS318BBL	203
GBS318BNE	203
GBS318BRO	203
GBS318BTR	203
GBS380BBI	203
GBS380BBL	203
GBS380BGV	203
GBS380BNE	203
GBS380BRO	203
GBS380BTR	203
GBS380SBI	206
GBS380SBL	206
GBS380SGV	206
GBS380SNE	206
GBS380SRO	206
GBS380STR	206
GBS510BBI	203
GBS510BBL	203
GBS510BNE	203
GBS510BRO	203
GBS510BTR	203
GBS510SBI	206
GBS510SBL	206
GBS510SGV	206
GBS510SNE	206
GBS510SRO	206
GBS510STR	206
GBS760BBI	203
GBS760BBL	203
GBS760BNE	203
GBS760BRO	203
GBS760BTR	203
GCP006MGR	221
GCP006MNE	221
GCP008MGR	221
GCP008MNE	221
GCP010MGR	221
GCP010MNE	221
GCP015MGR	221
GCP015MNE	221
GCP020MGR	221
GCP020MNE	221
GCP030MGR	221
GCP030MNE	221
GCP040MGR	221
GCP040MNE	221
M092	128
M093	130
M093H	132
M094	134
M095	136
M096	138
M0983	141
M0984	141
M098C	141
M099	141
M9021	114
M9022	114
M9023	114
M9024	114
M9031	115
M9032	115
M9033	115
M9034	115
M9039	117
M9051	116
M9052	116
M9053	116
M9054	116
M92CS	129
M92GF	142
M932	183
M93CS	131
M93GF	144
M93H1	132
M93H10	132

Code	Page
M93H11	132
M93H2	132
M93H3	132
M93H4	132
M93H5	132
M93H6	132
M93H7	132
M93H8	132
M93H9	132
M93HCS	133
M93HGF	146
M93HGFCS	147
M94CS	135
M94GF	148
M95CS	137
M95GF	150
N0824	187
N0824M	187
N0901	195
N0902	195
N0903	195
N0905	194
N0906	194
N1012	193
N1025	187
N1025M	187
N1090	187
N1225	187
N1248	187
N1290	187
N1436	187
N1436M	187
N1576	187
N1590	187
N1625	187
N1625M	187
N1648	187
N1890	193
N1948	187
N2025	187
N2036	187
N2048	187
N2048M	187
N2076	187
N2412	193
N2548	187
N2690	193
N2936	187
N2936M	187
N2976	187
N3048	187
N3048M	187
N3690	193
N3736	187
N3748	187
N3776	187
N3948	187
N4348	187
N4390	187
N4576	187
N4912	193
N5348	187
N5390	187
N5476	187
N7190	187
N7412	193
N7576	187
N7890	187
N8190	187
N8912	193
N9201	125
N9201/1	125
N9201/10	125
N9201/11	125
N9201/2	125
N9201/3	125
N9201/4	125
N9201/5	125
N9201/6	125
N9201/7	125
N9201/8	125
N9201/9	125
N9201CS	126
N9201CS1	126
N9201CS10	126
N9201CS11	126
N9201CS2	126
N9201CS3	126
N9201CS4	126
N9201CS5	126
N9201CS6	126
N9201CS7	126
N9201CS8	126
N9201CS9	126
N9202	127
N9202/1	127
N9202/10	127
N9202/11	127
N9202/2	127
N9202/3	127
N9202/4	127
N9202/5	127
N9202/6	127
N9202/7	127
N9202/8	127
N9202/9	127
NL1025	189
NL1436	189
NL2025	189
NL2048	189
NL3048	189
NL3748	189
NL3776	189
NV2312	197
Q20	277
Q24	277
Q30	277
Q40	277
Q46	277
Q50	277
Q57	277
Q68	277
Q92	277
QB1221518	217
QB1241518	217
QB1242518	217
QB1251518	217
QB1551625	217
QB1552617	217
QB2011825	217
QB2051625	217
QB2052517	217
QB2052625	217
QB2541620	217
QB3011825	217
QB3012825	217
QB3052625	217
QB3251625	217
QHEP01604	218
QHEP02004	218
QHEP02006	218
QHEP02505	218
QHEP02506	218
QHEP03006	218
QHEP03008	218
QHEP03506	218
QHEP03508	218
QHEP03510	218
QHEP04006	218
QHEP04008	218
QHEP04010	218
QHEP04506	218
QHEP04508	218
QHEP04510	218
QHEP05006	218
QHEP05008	218
QHEP05010	218
QHEP05012	218
QHEP06008	218
QHEP06010	218
QHEP06012	218
QHEP07010	218
QHEP07012	218
QHEP07512	218
QM108007C	211
QM112508C	211
QM116008C	211
QM125012C	211
QM140012C	211
QM150012B	211
QM204017C	212
QM210007C	212
QM210015C	212
QM212507C	212
QM212511C	212
QM212515C	212
QM404013C	213
QM410007C	213
QM410011C	213
QM410015C	213
QM412507C	213
QM412511C	213
QM412515C	213
QM416012H	214
QM416012L	214
QSCP015M4	219
QSCP015M5	219
QSCP015M6	219
QSCP020M4	219
QSCP020M5	219
QSCP020M6	219
QSCP025M4	219
QSCP025M5	219
QSCP025M6	219
QSCP030M4	219
QSCP030M5	219
QSCP030M6	219
QSCP040M4	219
QSCP045M5	219
QSCP045M6	219
QSCP055M4	219
QSCP055M5	219
QSCP060M4	219
QSCP060M6	219
QSCP070M5	219
QSCP070M6	219
QSCP085M5	219
QSCP090M4	219
QSCP120M5	219
QSCP120M6	219
QSMS015M4	220
QSMS015M5	220
QSMS015M6	220
QSMS020M4	220
QSMS020M5	220
QSMS020M6	220
QSMS025M4	220
QSMS025M5	220
QSMS025M6	220
QSMS030M4	220
QSMS030M5	220
QSMS030M6	220
QSMS040M4	220
QSMS040M5	220
QSMS040M6	220
QSMS050M4	220
QSMS050M5	220
QSMS050M6	220
QSMS060M4	220
QSMS060M5	220
QSMS060M6	220
QSMS080M5	220
QSMS080M6	220
R2036	278
R2226	278
R2230	278
R2236	278
R2242	278
R2249	278
R2345	278
R2445	278
R2658	278
R2951	278
R2971	278
R3046	278
R3251	278
R3276	278
R3646	278
R3752	278
R3757	278
R3797	278
R3865	278
R4011	278
R4672	278
S1079	198
S1345	198
S2045	198
S2079	198
S3045	198
S3079	198
S3745	198
S3779	198
S5079	198
S5245	198
S6845	198
S6879	198
S8445	198
S8479	198
SC1345	199
SC2045	199
SC2079	199
SC3045	199
SC3079	199
SC3745	199
SC3779	199
SC5079	199
SC5245	199
SC6845	199
SC6879	199
SC8445	199
SC8479	199
T1050	276
T1150	276
T1550	276
T1600	276
T1700	276
T1950	276
T2000	276
T2100	276
T2250	276
T2400	276
T2550	276
T2650	276
T2850	276
T3050	276
T3250	276
T3500	276
T3850	276
T4000	276
T4200	276
T4500	276
T4800	276
T5050	276
T5400	276
T5550	276
T5700	276
T6050	276
T6200	276
T6500	276
T7050	276
T7200	276
T7500	276
T8050	276
T9100	276
TP4CU16	299
TP4CU20	299
TP4CU25	299
TP4CU32	299
TP4CU40	299
TP4CU50	299
TP4MA16	299
TP4MA20	299
TP4MA25	299
TP4MA32	299
TP4MA40	299
TP4MA50	299
TP5RGG10	303
TP5RGG12	303
TP5RGG14	303
TP5RGG16	303
TP5RGG20	303
TP5RGG22	303
TP5RGG25	303
TP5RGG28	303
TP5RGG32	303
TP5RGG35	303
TP5RGG40	303
TP5RGG50	303
TP5RGGN10	303
TP5RGGN12	303
TP5RGGN14	303
TP5RGGN16	303
TP5RGGN20	303
TP5RGGN22	303
TP5RGGN25	303
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TP5RGGN35	303
TP5RGGN40	303
TP5RGGN50	303
TP5RGM10	301
TP5RGM12	301
TP5RGM16	301
TP5RGM20	301
TP5RGM25	301
TP5RGM32	301
TP5RGM40	301
TP5RGM50	301
TP5RGMN10	301
TP5RGMN12	301
TP5RGMN16	301
TP5RGMN20	301
TP5RGMN25	301
TP5RGMN32	301
TP5RGMN40	301
TP5RGMN50	301
TP5RGP10	302
TP5RGP12	302
TP5RGP12/13	302
TP5RGP14	302
TP5RGP16	302
TP5RGP16/13	302
TP5RGP16/16	302
TP5RGP20	302
TP5RGP22	302
TP5RGP25	302
TP5RGP28	302
TP5RGP32	302
TP5RGP35	302
TP5RGPN10	302
TP5RGPN12	302
TP5RGPN12/13	302
TP5RGPN14	302
TP5RGPN16	302
TP5RGPN16/13	302
TP5RGPN16/16	302
TP5RGPN20	302
TP5RGPN22	302
TP5RGPN25	302
TP5RGPN28	302
TP5RGPN32	302
TP5RGPN35	302
TP7CR16	297
TP7CR20	297
TP7CR25	297
TP7CR32	297
TP7CR40	297
TP7CR50	297
TP7TG16	298
TP7TG16/12	298
TP7TG20	298
TP7TG20/16	298
TP7TG25	298
TP7TG25/20	298
TP7TG32	298
TP7TG40	298
TP7TG50	298
TP7TS16	296
TP7TS20	296
TP7TS25	296
TP7TS32	296
TP7TS40	296
TP7TS50	296
TP7TT16	297
TP7TT20	297
TP7TT25	297
TP7TT32	297
TP7TT40	297
TP7TT50	297
TPZFF16/32	300
TPZFF40/63	300
TPZFS16	300
TPZFS20	300
TPZFS25	300
TPZFS32	300
TPZFS40	300
TPZFS50	300

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