Product Catalogue

Components for low voltage panel boards


Pad
3:02 PM
51%
Co-flex
DZP
MRS
BOC
CPH
RPQ
DIN
UBF
FLT
BRP
Co-flex
GTI
GSP
GPG
GWF
GSL
Panel Boards
Fastening
Photovoltaic

YOUNG, STRONG AND EXPERT

"We are what we repeatedly do.
Excellence, then, is not an act, but a habit"

(Aristotle)

Maurizio Mercandelli
Managing Director

More than **15 years** after of its foundation, Teknomega is a solid **reference** point in the world of electrical industry.The peculiar **identity** that characterizes Teknomega is made of a network of people **relationships**, together with a **rigorous organization** that has its roots in the experience of the leaders who run it.

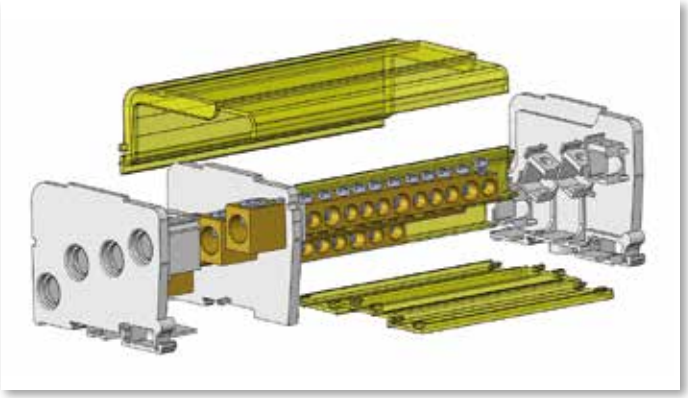
The increased knowledge, always aligned to the evolution of the Regulations, the **service** culture embodied in the working routine, and the daily **passion** that the women and men in Teknomega express in what they do, make Teknomega a reliable **partner** for all its Distributors and Customers in 65 Countries worldwide. Distributors and Customers who have rewarded Teknomega with high rates of **growth**, even in times of crisis.

Thank you, dear Customers!

The ambition to emerge, the **creativity** used both in the operating aspect and in the generation of new products, the pleasure of **working and create job** places for an increasingly wide **team**, make Teknomega a little **shining star** in the galaxy of electrical equipments; a star which we are proud of.

Head office and Logistic Center in Buccinasco, Milan

A YOUNG HISTORY OF SUCCESS



Research & Development

Teknomega commitment in terms of quality is not a slogan: it is a style, a bet on the competitiveness of the Company itself, an essential value in the Business to Business field. The apparatus of research and development is active on growth of the offer, in order to meet a growing number of applications and markets, which is, for Teknomega, a fundamental objective.

Customer Care

Our Customer Service has got personality. People who like their job at service of their customers, far from the call center logic; people who answer the needs of their interlocutors with wisdom and creativity.

Logistics

The step which follows Customer Service is a well-organized, efficient and computerized Logistic Center which can flexibly react to the requests, backed by ample stores of all the items shown in the catalogue.

Widespread availability

The partnership with selected Distributors of electrical equipment, and specialized importers worldwide, makes the availability of products, as well as interlocutors and informations, decentralized and widespread.

Global

The attractiveness of Teknomega, of its range and its style, has rapidly pushed it beyond the national and European borders, making products available in over 65 Countries worldwide.

Updating

Staying "up to date" as to regulations, techniques and technologies, paying attention to the trends of demand, being proponents of innovation, is part of Teknomega enterpreneurial style.

Presence

Both in domestic and foreign markets, in fairs and exhibitions, or through our efficient web site www.teknomega.com, with the sales force and our newsletters, we keep a high level of presence and communication with our customers.

Quality

Teknomega has been awarded ISO9001:2015 certification which is more than just a piece of paper, it is the recognition of the validity of the operating and control system.

TEKNOMEGA PANEL BOARD DIVISION is a complete and synergic range of components for low voltage electric panel board assembling.

Upon determining the structure and electromechanic equipment, **TEKNOMEGA** proposes a wide range of solutions for panel board cabling, with the great advantage of being assisted by a qualified partner with ample field experience. The main goal is to propose the most universal solutions possible, so that they can be used on all panel board structures on the market.

What **TEKNOMEGA** proposes complies with reference standards as well as with the requirements of the recent guidelines relevant to the safety and materials used. Many products in this catalog have been electrically and mechanically **TESTED** and **PROVEN**.

The catalog products are normally available at warehouses; **TEKNOMEGA** can also meet requests of "special" or "customized" products with competence, flexibility and quickness.

SUMMARY

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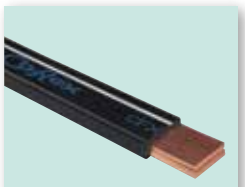
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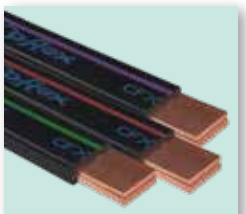
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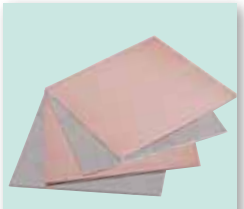
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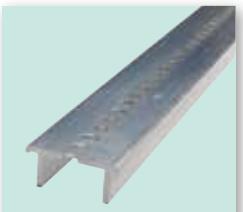
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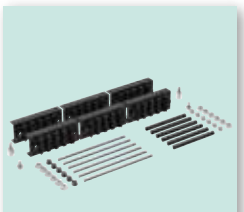
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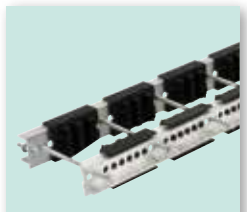
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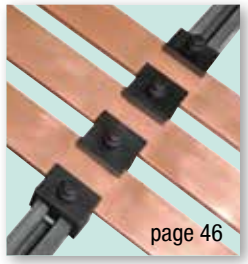
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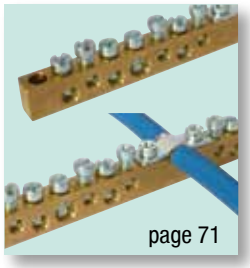
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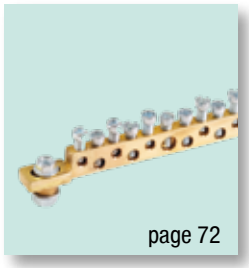
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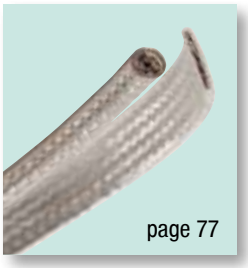
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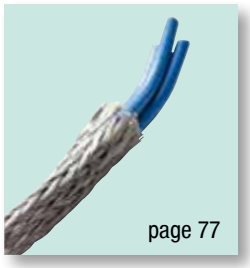
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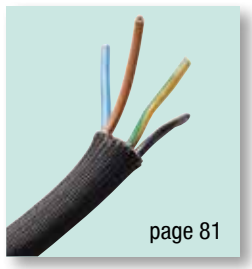
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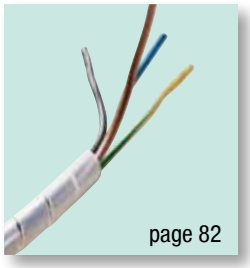
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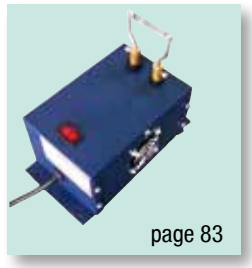
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DIN RAILS

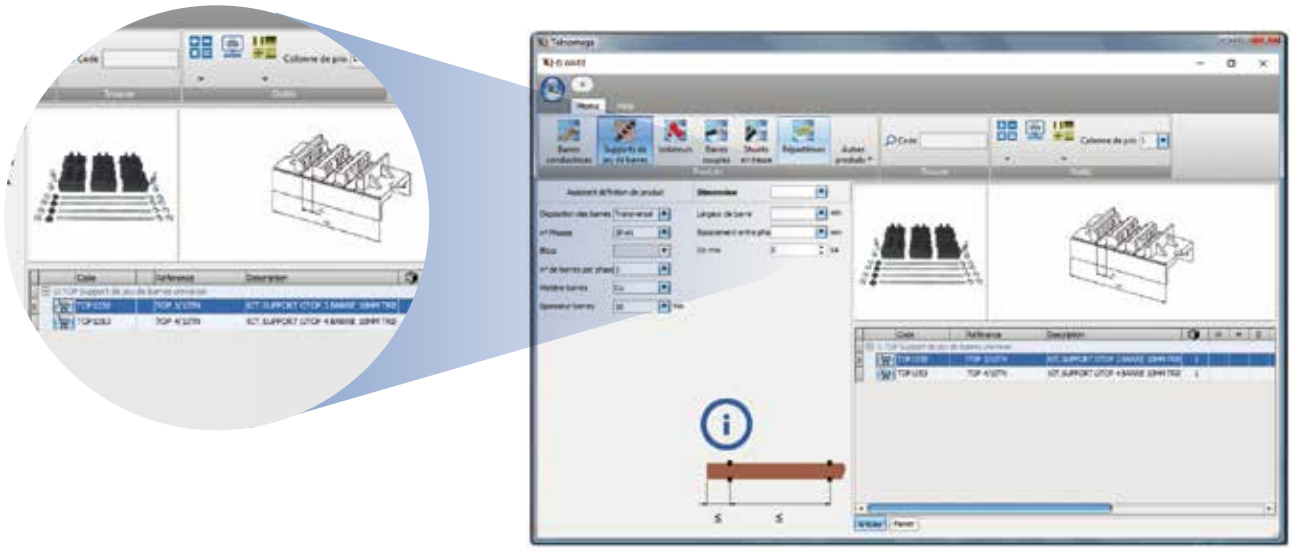
WIRING ACCESSORIES

SPECIAL CONNECTIONS

Ω ware

SOFTWARE FOR THE SELECTION OF PRODUCTS OF PANEL BOARD DIVISION

Ω WARE can calculate electrical parameters, select products for a specific project, calculate the right installation distances, list the chosen products, see the pricelist, the catalogue and the operating instructions, product datasheet and updated pricelists. Quick and intuitive, **Ω** WARE will guide you in the selection of products, saving your time and avoiding possible mistakes.



COFLEX, THE 4.0 FLEXIBLE BAR

From a Teknomega new and advanced manufacturing plant, COFLEX, the only "bi-color" flexible bar (patented), distinguishes itself for the high flexibility and excellent look.

COFLEX is the perfect conductor to connect:
- main power supply and electrical equipment (switches, disconnectors, etc.)
- busbar and cabinet / panel board
- transformer and busbar

COFLEX is designed with electrolytic copper laminates, covered with a highly resistant and self extinguishing insulation which guarantees an excellent electrical insulation, even with humid or aggressive environment, or high temperature.

Electrical connections using COFLEX are much easier than using standard methods such as cable or plain busbar. Connections with COFLEX, making holes straight on the laminates, are safe and reliable and they make a panel board installation easier and faster.

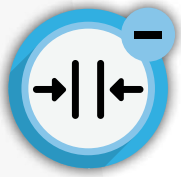
ADVANTAGES COMPARED TO PLAIN BAR

- With same cross section, higher ampacity and safety
- Reduction of material used and dimensions
- Easy shaping also for big sizes
- Cost and time saving compared to the usage of busbar supports or insulators for plain bars, as COFLEX is already insulated

ADVANTAGES COMPARED TO CABLE

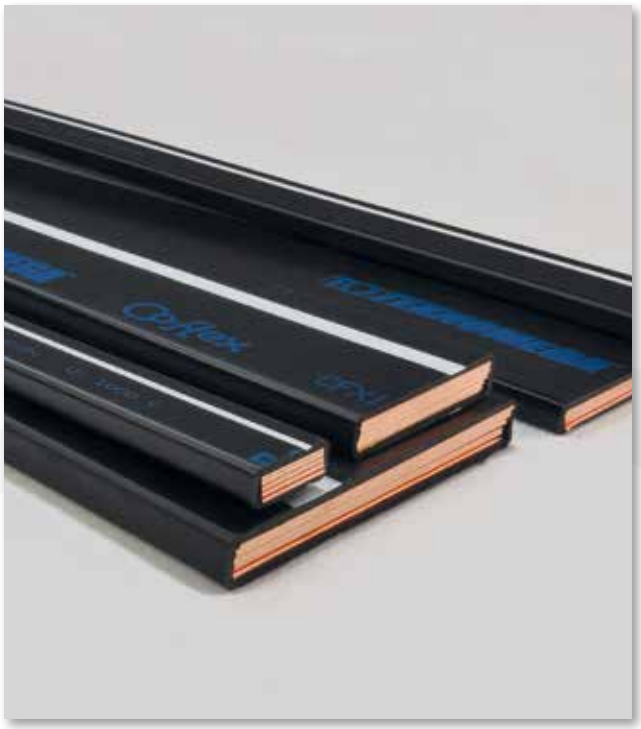
- Higher electrical ampacity with same cross section
- Reduction of dimensions for your installation
- Reduction of length and number of conductors
- Cost and time saving compared to the usage of cable terminals
- Zero electrical resistance without cable terminals

TIME SAVING



DIMENSIONS SAVING

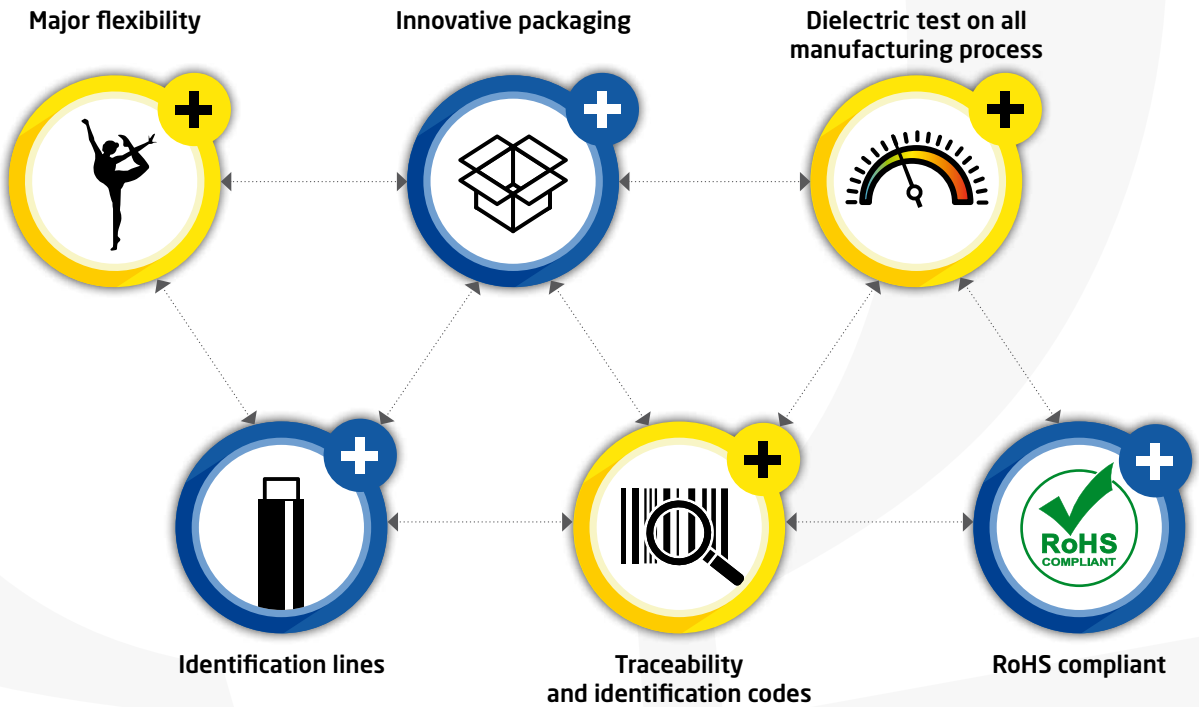
COPPER SAVING



RANGE

Versions: COFLEX - COFLEX PLUS
Standard length: 2 - 3 m
Laminates width: 9 - 13 - 15,5 - 20 - 24 - 32 - 40 - 50 - 63 - 80 - 100 mm
Number of laminates: from 2 to 12, according to the bar's width
Cross section: from 20 to 1200 mm^2

COFLEX ADDED VALUE



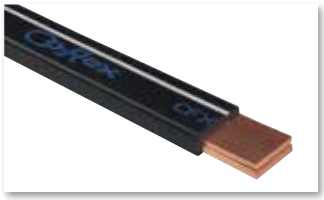
TECHNICAL FEATURES

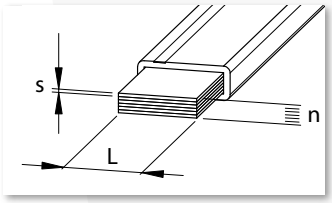
Conductor
Electrolytic copper:
Cu-ETP - EN 13599
Laminate thickness:
0,5 - 0,8 - 1 mm

Insulation
Self-extinguishing PVC UL 94-V0
Black color with a white line
Thickness: 2 mm ± 0,2
Max. elongation: 365%
Hardness: 80 Shore A
Tensile strength: 19 MPa
Dielectric strength: 20 kV/mm

Finished product
Rated voltage:
1000 V AC / 1500V DC
Working temperature:
-40°C ÷ +105°C

c UL us
File n° E300607





In VS. ΔT

In = Rated current A
ΔT= Temperature rise °C
ΔT= **Tf - Ta**
Tf = Working temperature °C
Ta = Room temperature °C

REFERENCE EXAMPLE

CFX 4X20X1
Laminate number: **n** = 4
Laminate width: **L** = 20 mm
Laminate thickness: **s** = 1 mm

DERATING COEFFICIENT FOR THE USE OF BARS IN PARALLE

Number of bars in parallel	2 bars	3 bars	4 bars
Coefficient to use	1,8	2,5	3,2

Example for CFX 5X100X1 con ΔT= 50 °C:

In (A)	1535 x 1,8 = 2763	1535 x 2,5 = 3838	1535 x 3,2 = 4912

UPON REQUEST: Tinned copper laminates.

2 METERS LENGTH

Table of ampacities (A) based on temperature rise ΔT as per IEC 61439-1
Reference room temperature 40°C

L	Code	Reference		Weight (Kg)	Sect. (mm^2)	Temperature rise ΔT				
						65 °C	50 °C	40 °C	30 °C	20 °C
						Rated Intensity In (A)				
9	**CFX1005**	CFX 3X9X0,8	6	0,5	21,6	160	**140**	125	108	89
	CFX1020	CFX 6X9X0,8	4	0,9	43,2	285	**250**	224	194	158
	CFX1021	CFX 9X9X0,8	4	1,3	64,8	319	**280**	250	217	177
13	**CFX1022**	CFX 3X13X0,5	6	0,45	19,5	194	**170**	152	132	108
	CFX1023	CFX 6X13X0,5	6	0,92	39	285	**250**	224	194	158
	CFX1024	CFX 10X13X0,5	4	1,41	65	376	**330**	295	256	209
15,5	**CFX1025**	CFX 2X15,5X0,8	6	0,68	24,8	234	**205**	183	159	130
	CFX1035	CFX 4X15,5X0,8	6	1,14	49,6	365	**320**	286	248	202
	CFX1045	CFX 6X15,5X0,8	4	1,6	74,4	456	**400**	358	310	253
	CFX1050	CFX 10X15,5X0,8	4	2,52	124	502	**440**	394	341	278
20	**CFX1055**	CFX 2X20X1	6	1	40	319	**280**	250	217	177
	CFX1060	CFX 3X20X1	6	1,37	60	399	**350**	313	271	221
	CFX1065	CFX 4X20X1	4	1,74	80	467	**410**	367	318	259
	CFX1070	CFX 5X20X1	4	2,11	100	490	**430**	385	333	272
	CFX1075	CFX 6X20X1	4	2,47	120	547	**480**	429	372	304
	CFX1076	CFX 8X20X1	4	3,21	160	638	**560**	501	434	354
	CFX1080	CFX 10X20X1	4	3,94	200	730	**640**	572	496	405
24	**CFX1085**	CFX 2X24X1	3	1,19	48	399	**350**	313	271	221
	CFX1090	CFX 3X24X1	3	1,63	72	456	**400**	358	310	253
	CFX1095	CFX 4X24X1	3	2,07	96	536	**470**	420	364	297
	CFX1100	CFX 5X24X1	2	2,51	120	581	**510**	456	395	323
	CFX1105	CFX 6X24X1	2	2,94	144	650	**570**	510	442	360
	CFX1110	CFX 8X24X1	2	3,82	192	781	**685**	613	531	433
	CFX1115	CFX 10X24X1	1	4,7	240	912	**800**	716	620	506
32	**CFX1120**	CFX 2X32X1	3	1,56	64	467	**410**	367	318	259
	CFX1125	CFX 3X32X1	3	2,14	96	559	**490**	438	380	310
	CFX1130	CFX 4X32X1	3	2,72	128	627	**550**	492	426	348
	CFX1135	CFX 5X32X1	2	3,3	160	741	**650**	581	503	411
	CFX1140	CFX 6X32X1	2	3,89	192	821	**720**	644	558	455
	CFX1145	CFX 8X32X1	2	5,05	256	992	**870**	778	674	550
	CFX1150	CFX 10X32X1	2	6,21	320	1163	**1020**	912	790	645
40	**CFX1155**	CFX 2X40X1	3	1,93	80	524	**460**	411	356	291
	CFX1160	CFX 3X40X1	3	2,66	120	650	**570**	510	442	360
	CFX1165	CFX 4X40X1	3	3,38	160	741	**650**	581	503	411
	CFX1170	CFX 5X40X1	2	4,1	200	884	**775**	693	600	490
	CFX1175	CFX 6X40X1	2	4,83	240	986	**865**	774	670	547
	CFX1180	CFX 8X40X1	2	6,27	320	1180	**1035**	926	802	655
	CFX1185	CFX 10X40X1	2	7,72	400	1343	**1178**	1054	912	745
50	**CFX1190**	CFX 3X50X1	3	3,3	150	672	**589**	527	456	373
	CFX1195	CFX 4X50X1	2	4,2	200	886	**777**	695	602	491
	CFX1200	CFX 5X50X1	2	5,1	250	1055	**925**	827	717	585
	CFX1205	CFX 6X50X1	2	6	300	1186	**1040**	930	806	658
	CFX1210	CFX 8X50X1	2	7,8	400	1357	**1190**	1064	922	753
	CFX1215	CFX 10X50X1	2	9,61	500	1573	**1380**	1234	1069	873
63	**CFX1220**	CFX 3X63X1	1	4,13	189	941	**825**	738	639	522
	CFX1225	CFX 4X63X1	1	5,27	252	1083	**950**	850	736	601
	CFX1230	CFX 5X63X1	1	6,4	315	1209	**1060**	948	821	670
	CFX1235	CFX 6X63X1	1	7,53	378	1391	**1220**	1091	945	772
	CFX1240	CFX 8X63X1	1	9,8	504	1596	**1400**	1252	1084	885
	CFX1245	CFX 10X63X1	1	12	630	1841	**1615**	1444	1251	1021
80	**CFX1250**	CFX 3X80X1	1	5,22	240	1138	**998**	893	773	631
	CFX1255	CFX 4X80X1	1	6,66	320	1311	**1150**	1029	891	727
	CFX1260	CFX 5X80X1	1	8,09	400	1429	**1280**	1145	991	810
	CFX1265	CFX 6X80X1	1	9,53	480	1602	**1405**	1257	1088	889
	CFX1270	CFX 8X80X1	1	12,4	640	1833	**1608**	1438	1246	1017
	CFX1275	CFX 10X80X1	1	15,3	800	2028	**1779**	1591	1378	1125
100	**CFX1280**	CFX 4X100X1	1	8,3	400	1420	**1245**	1114	964	787
	CFX1285	CFX 5X100X1	1	10,1	500	1750	**1535**	1373	1189	871
	CFX1290	CFX 6X100X1	1	11,9	600	1915	**1680**	1503	1301	1063
	CFX1295	CFX 8X100X1	1	15,5	800	2172	**1905**	1704	1476	1205
	CFX1300	CFX 10X100X1	1	19,1	1000	2394	**2100**	1878	1627	1328
	CFX1305	CFX 12X100X1	1	22,6	1200	2600	**2280**	2039	1766	1442

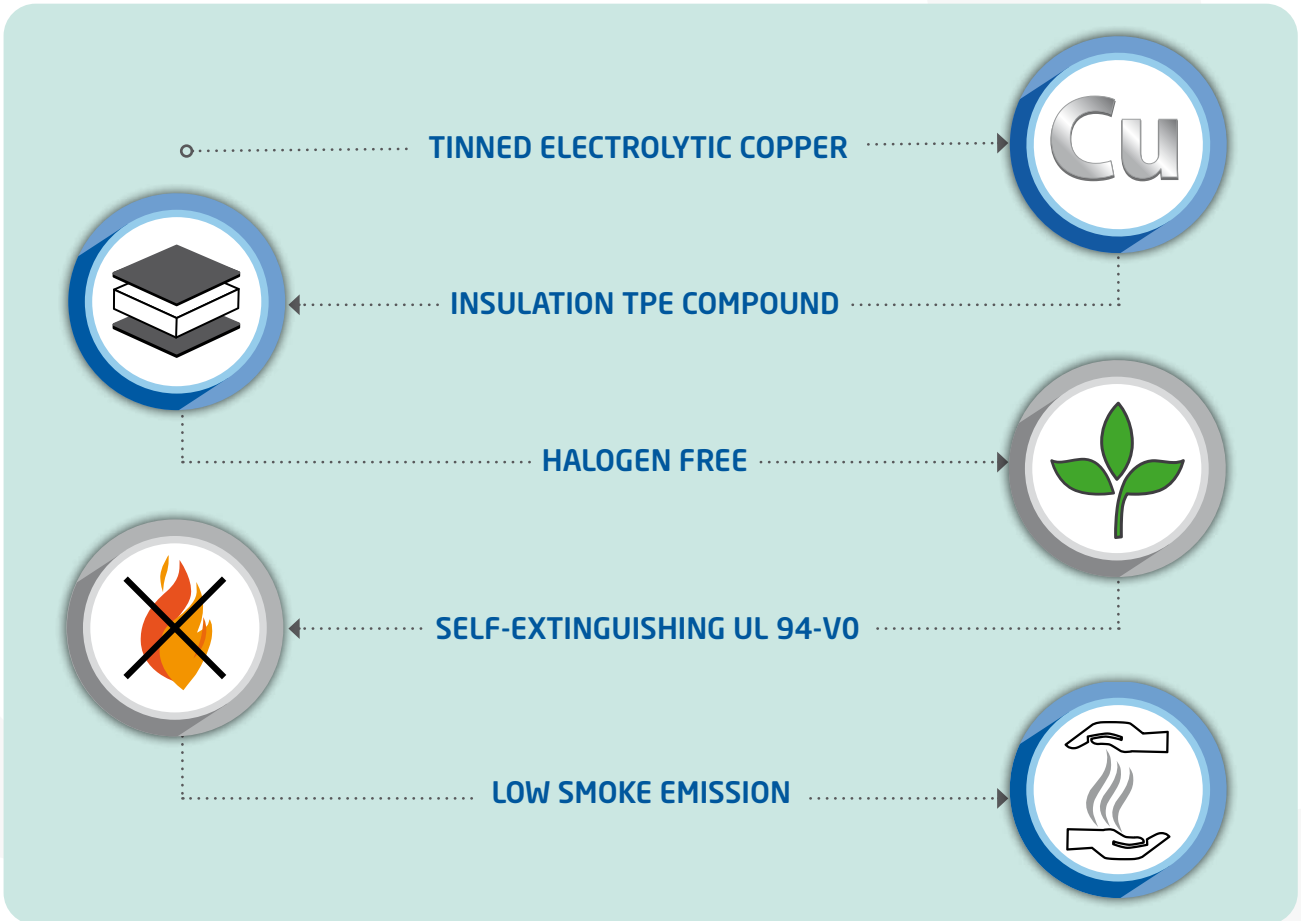
3 meters length

Table of ampacities (A) based on temperature rise ΔT as per IEC 61439-1
Reference room temperature 40°C

L	Code	Reference		Weight (Kg)	Sect. (mm^2)	Temperature rise ΔT				
						65 °C	50 °C	40 °C	30 °C	20 °C
						Rated Intensity In (A)				
20	**CFX3055**	CFX 2X20X1-3	1	1,5	40	319	**280**	250	217	177
	CFX3060	CFX 3X20X1-3	1	2,05	60	399	**350**	313	271	221
	CFX3065	CFX 4X20X1-3	1	2,61	80	467	**410**	367	318	259
	CFX3070	CFX 5X20X1-3	1	3,16	100	490	**430**	385	333	272
24	**CFX3085**	CFX 2X24X1-3	1	1,78	48	399	**350**	313	271	221
	CFX3090	CFX 3X24X1-3	1	2,44	72	456	**400**	358	310	253
	CFX3095	CFX 4X24X1-3	1	3,1	96	536	**470**	420	364	297
	CFX3100	CFX 5X24X1-3	1	3,76	120	581	**510**	456	395	323
32	**CFX3120**	CFX 2X32X1-3	1	2,34	64	467	**410**	367	318	259
	CFX3125	CFX 3X32X1-3	1	3,21	96	559	**490**	438	380	310
	CFX3135	CFX 5X32X1-3	1	4,95	160	741	**650**	581	503	411
	CFX3145	CFX 8X32X1-3	1	7,57	256	992	**870**	778	674	550
40	**CFX3170**	CFX 5X40X1-3	1	6,15	200	884	**775**	693	600	490
	CFX3185	CFX 10X40X1-3	1	11,58	400	1343	**1178**	1054	912	745
50	**CFX3200**	CFX 5X50X1-3	1	7,65	250	1055	**925**	827	717	585

Items in stock. Other sizes available upon request.

COFLEX is designed to be manufactured as well in a high performance version, COFLEX PLUS.
COFLEX PLUS is manufactured using tinned electrolytic copper laminates, insulated with a brand new high performance polymer and keeps the same electrical conduction and flexibility of COFLEX.
COFLEX PLUS is halogen free, flame resistant and grants low smoke emission. A unique solution to increase the reliability of your electrical connection, and the safety of electrical equipment at the same time.



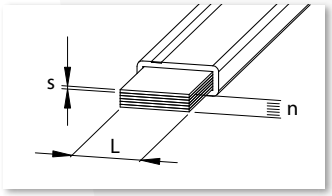
TECHNICAL FEATURES

Conductor
Tinned electrolytic copper:
Cu-ETP - EN 13599
Laminate thickness:
0,5 - 0,8 - 1 mm

Insulation
TPE compound
Halogen free
Low smoke
Self-extinguishing UL 94-V0
Black color with a light blue line
Thickness: > 1,6 mm
Typical elongation: 550%
Hardness: 80 Shore A
Tensile strength: 6 MPa
Recycable

Finished product
Rated voltage:
1000 V AC/1500V DC
Working temperature:
-40°C ÷ +140°C

c UL us
File n° E300607



In VS. ΔT

In = Rated current A
ΔT= Temperature rise °C
ΔT= **Tf - Ta**
Tf = Working temperature °C
Ta = Room temperature °C

REFERENCE EXAMPLE

CFP 4X20X1
Laminate number: **n** = 4
Laminate width **L** = 20 mm
Laminate thickness: **s** = 1 mm

DERATING COEFFICIENT FOR THE USE OF BARS IN PARALLEL

Number of bars in parallel	2 BARS	3 BARS	4 BARS
Coefficient to use	1,8	2,5	3,2
Example for CFP 5X100X1 con ΔT= 50 °C:			
In (A)	1535 x 1,8 = 2763	1535 x 2,5 = 3838	1535 x 3,2 = 4912

UPON REQUEST: Red copper laminates.

2 meters length

Table of ampacities (A) based on temperature rise ΔT as per IEC 61439-1
Reference room temperature 40°C

L	Code	Reference		Weight (Kg)	Sect. (mm²)	Temperature rise ΔT				
						65 °C	50 °C	40 °C	30 °C	20 °C
						Rated Intensity In (A)				
9	**CFX5005**	CFP 3X9X0,8	6	0,44	21,6	160	**140**	125	108	89
	CFX5020	CFP 6X9X0,8	4	0,83	43,2	285	**250**	224	194	158
	CFX5021	CFP 9X9X0,8	4	1,22	64,8	319	**280**	250	217	177
13	**CFX5022**	CFP 3X13X0,5	6	0,39	19,5	194	**170**	152	132	108
	CFX5023	CFP 6X13X0,5	6	0,84	39	285	**250**	224	194	158
	CFX5024	CFP 10X13X0,5	4	1,32	65	376	**330**	295	256	209
15,5	**CFX5025**	CFP 2X15,5X0,8	6	0,6	24,8	234	**205**	183	159	130
	CFX5035	CFP 4X15,5X0,8	6	1,05	49,6	365	**320**	286	248	202
	CFX5045	CFP 6X15,5X0,8	4	1,5	74,4	456	**400**	358	310	253
	CFX5050	CFP 10X15,5X0,8	4	2,41	124	502	**440**	394	341	278
20	**CFX5055**	CFP 2X20X1	6	0,9	40	319	**280**	250	217	177
	CFX5060	CFP 3X20X1	6	1,26	60	399	**350**	313	271	221
	CFX5065	CFP 4X20X1	4	1,63	80	467	**410**	367	318	259
	CFX5070	CFP 5X20X1	4	2	100	490	**430**	385	333	272
	CFX5075	CFP 6X20X1	4	2,35	120	547	**480**	429	372	304
	CFX5076	CFP 8X20X1	4	3,08	160	638	**560**	501	434	354
	CFX5080	CFP 10X20X1	4	3,81	200	730	**640**	572	496	405
24	**CFX5085**	CFP 2X24X1	3	1,07	48	399	**350**	313	271	221
	CFX5090	CFP 3X24X1	3	1,51	72	456	**400**	358	310	253
	CFX5095	CFP 4X24X1	3	1,95	96	536	**470**	420	364	297
	CFX5100	CFP 5X24X1	2	2,38	120	581	**510**	456	395	323
	CFX5105	CFP 6X24X1	2	2,81	144	650	**570**	510	442	360
	CFX5110	CFP 8X24X1	2	3,68	192	781	**685**	613	531	433
	CFX5115	CFP 10X24X1	1	4,55	240	912	**800**	716	620	506
32	**CFX5120**	CFP 2X32X1	3	1,42	64	467	**410**	367	318	259
	CFX5125	CFP 3X32X1	3	1,99	96	559	**490**	438	380	310
	CFX5130	CFP 4X32X1	3	2,57	128	627	**550**	492	426	348
	CFX5135	CFP 5X32X1	2	3,14	160	741	**650**	581	503	411
	CFX5140	CFP 6X32X1	2	3,73	192	821	**720**	644	558	455
	CFX5145	CFP 8X32X1	2	4,88	256	992	**870**	778	674	550
	CFX5150	CFP 10X32X1	2	6,03	320	1163	**1020**	912	790	645
40	**CFX5155**	CFP 2X40X1	3	1,76	80	524	**460**	411	356	291
	CFX5160	CFP 3X40X1	3	2,48	120	650	**570**	510	442	360
	CFX5165	CFP 4X40X1	3	3,2	160	741	**650**	581	503	411
	CFX5170	CFP 5X40X1	2	3,91	200	884	**775**	693	600	490
	CFX5175	CFP 6X40X1	2	4,64	240	986	**865**	774	670	547
	CFX5180	CFP 8X40X1	2	6,07	320	1180	**1035**	926	802	655
	CFX5185	CFP 10X40X1	2	7,51	400	1343	**1178**	1054	912	745
50	**CFX5190**	CFP 3X50X1	3	3,09	150	672	**589**	527	456	373
	CFX5195	CFP 4X50X1	2	3,98	200	886	**777**	695	602	491
	CFX5200	CFP 5X50X1	2	4,88	250	1055	**925**	827	717	585
	CFX5205	CFP 6X50X1	2	5,77	300	1186	**1040**	930	806	658
	CFX5210	CFP 8X50X1	2	7,57	400	1357	**1190**	1064	922	753
	CFX5215	CFP 10X50X1	2	9,37	500	1573	**1380**	1234	1069	873
63	**CFX5220**	CFP 3X63X1	1	3,87	189	941	**825**	738	639	522
	CFX5225	CFP 4X63X1	1	5,01	252	1083	**950**	850	736	601
	CFX5230	CFP 5X63X1	1	6,13	315	1209	**1060**	948	821	670
	CFX5235	CFP 6X63X1	1	7,26	378	1391	**1220**	1091	945	772
	CFX5240	CFP 8X63X1	1	9,52	504	1596	**1400**	1252	1084	885
	CFX5245	CFP 10X63X1	1	11,7	630	1841	**1615**	1444	1251	1021
80	**CFX5250**	CFP 3X80X1	1	4,9	240	1138	**998**	893	773	631
	CFX5255	CFP 4X80X1	1	6,34	320	1311	**1150**	1029	891	727
	CFX5260	CFP 5X80X1	1	7,76	400	1429	**1280**	1145	991	810
	CFX5265	CFP 6X80X1	1	9,2	480	1602	**1405**	1257	1088	889
	CFX5270	CFP 8X80X1	1	12,1	640	1833	**1608**	1438	1246	1017
	CFX5275	CFP 10X80X1	1	14,9	800	2028	**1779**	1591	1378	1125
100	**CFX5280**	CFP 4X100X1	1	7,9	400	1420	**1245**	1114	964	787
	CFX5285	CFP 5X100X1	1	9,7	500	1750	**1535**	1373	1189	871
	CFX5290	CFP 6X100X1	1	11,5	600	1915	**1680**	1503	1301	1063
	CFX5295	CFP 8X100X1	1	15,1	800	2172	**1905**	1704	1476	1205
	CFX5300	CFP 10X100X1	1	18,7	1000	2394	**2100**	1878	1627	1328
	CFX5305	CFP 12X100X1	1	22,2	1200	2600	**2280**	2039	1766	1442

Co·flex Plus

3 meters length

Table of ampacities (A) based on temperature rise ΔT as per IEC 61439-1
Reference room temperature 40°C

L	Code	Reference		Weight (Kg)	Sect. (mm²)	Temperature rise ΔT				
						65 °C	50 °C	40 °C	30 °C	20 °C
						Rated Intensity In (A)				
20	**CFX6055**	CFP 2X20X1-3	1	1,35	40	319	280	250	217	177
	CFX6060	CFP 3X20X1-3	1	1,89	60	399	350	313	271	221
	CFX6070	CFP 5X20X1-3	1	3	100	490	430	385	333	272
24	**CFX6085**	CFP 2X24X1-3	1	1,6	48	399	350	313	271	221
	CFX6090	CFP 3X24X1-3	1	2,26	72	456	400	358	310	253
	CFX6095	CFP 4X24X1-3	1	2,92	96	536	470	420	364	297
	CFX6100	CFP 5X24X1-3	1	3,57	120	581	510	456	395	323
32	**CFX6125**	CFP 3X32X1-3	1	2,98	96	559	490	438	380	310
	CFX6135	CFP 5X32X1-3	1	4,71	160	741	650	581	503	411
	CFX6145	CFP 8X32X1-3	1	7,32	256	992	870	778	674	550
40	**CFX6170**	CFP 5X40X1-3	1	5,86	200	884	775	693	600	490
	CFX6185	CFP 10X40X1-3	1	11,2	400	1343	1178	1054	912	745
50	**CFX6200**	CFP 5X50X1-3	1	7,32	250	1055	925	827	717	585

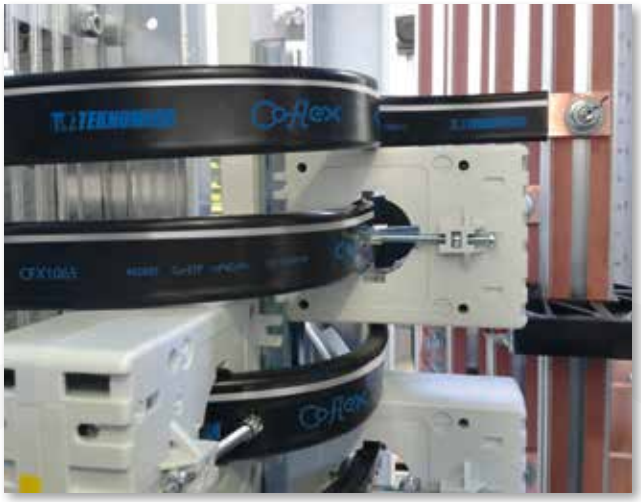
Co·flex Color

The exclusive bi-color insulation finish (patented) improves connections aesthetics, making their identification easier.
The coloured lines (standard white for CoFlex and light blue for CoFlex Plus) on request might be realized with different colors in order to identify phases, or following the company color, or simply matching a desired aesthetic.
The lines can be customized in color as per customer request.

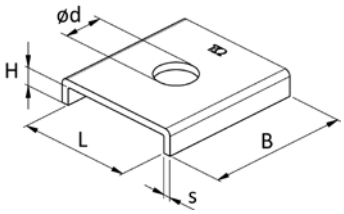
Co·flex Packing

A bespoke packaging that overcomes the fragility of traditional packaging with elegance and care (patented).
Made in pressed carton with high rigidity, prevents the bars from their typical flexing and supports them in any leaning position, making easier any handling to the working table.
It can be stored both horizontally and vertivally even in a small space, thanks to its rectangular shape.

PREFORMED FLEXIBLE BARS AS PER DRAWING



TEKNOMEGA have the capabilities to manufacture COFLEX INSULATED FLEXIBLE BARS bent and punched as per the customer's specific requirements.
This is convenient in the event of a "series" of production of "standard" electric panel boards and/or equipment.
The use of CUSTOM PREFORMED INSULATED FLEXIBLE BARS makes it possible to optimize the wiring time and to eliminate excessive waste material.



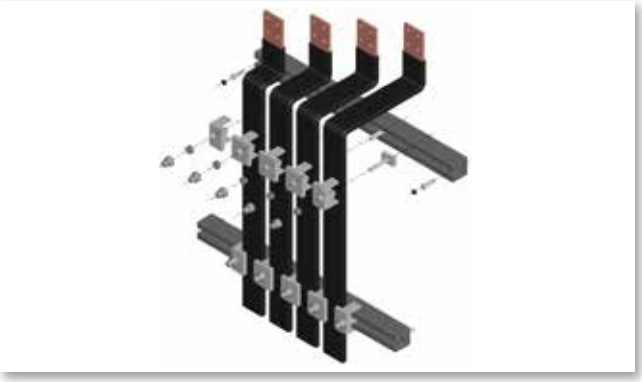
TECHNICAL FEATURES

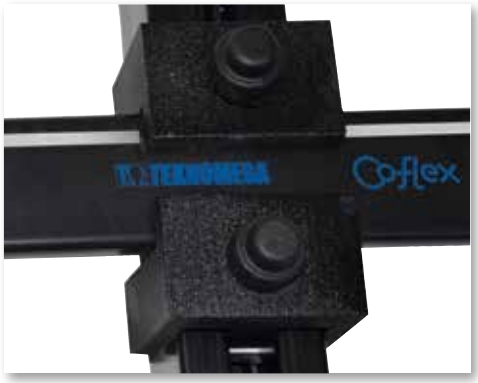
Material: Stell 140HV
Finishing: Electrogalvanized

ADVANTAGES
Constraint of laminate
Surface of connection with uniform pressure
High strength fixing

FIXING PLATES

Code	Reference		L (mm)	H (mm)	B (mm)	s (mm)	d (mm)
PBF1060	PBF 3X20-M6	10	20	2,8	25	1,6	7
PBF1065	PBF 4X20-M8	10	20	3,8	25	1,6	9
PBF1090	PBF 3X24-M8	10	24	2,8	32	1,6	9
PBF1100	BF 5X24-M10	10	24	4,8	32	2	11
PBF1125	BF 3X32-M10	10	32	2,8	40	2	11
PBF1140	BF 6X32-M12	10	32	5,8	40	2	13
PBF1165	BF 4X40-M12	10	40	3,8	40	2	13
PBF1180	BF 8X40-80	4	40	7,8	80	2,5	-
PBF1195	BF 4X50-40	4	50	3,8	40	2	-
PBF1210	BF 8X50-80	4	50	7,8	80	2,5	-
PBF1225	BF 4X63-40	4	63	3,8	40	2,5	-
PBF1240	BF 8X63-80	4	63	7,8	80	3	-
PBF1255	BF 4X80-50	4	80	3,8	50	2,5	-
PBF1270	BF 8X80-100	4	80	7,8	100	3	-





Universal support with Ω FLAT

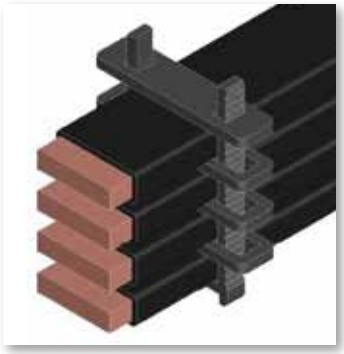
Made of:
- PVC support rail in 2-meter bars
- L-shaped anchoring block with adjustable spacing between phases
- T-shaped anchoring block with minimum allowed spacing between phases

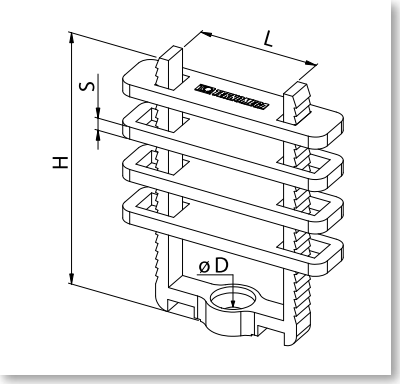
ADVANTAGES
- for flexible insulated bar cross-sections starting from 2x24x1 to 10x120x1
- support completely made of insulating material
- PVC rail easy to cut at the desired length
- quick fitting to the panel board structure by means of hex socket head cap screws M6
- high resistance to short-circuits

See Ω FLAT technical features on page 47

Simple support with spacer

APPLICATIONS and ADVANTAGES
- For use with insulated flexible bars up to 32x10x1.
- Possibility to fit up to 4 flexible bars.
- Fits easily to the panel board structure by means of screw (not included) inserted at the base of the spacer.
- Accurate and ordered fitting inside the panel board.
- Excellent heat dissipation thanks to the spacing between bars

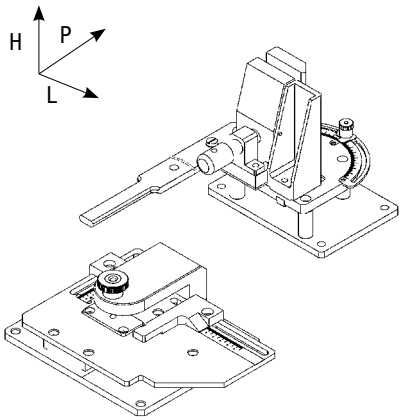




SPACER AND OVERLAPPING SUPPORT

In Polyamide 6/6 reinforced with 30% fiberglass
Self-extinguishing UL 94-V0
Black colour

Code	Reference		Sect. max Ω Flex	H (mm)	L (mm)	S (mm)	ø D (mm)
DZP3000	DZP BFX32	10	32 x 10 x 1	83	38	4	7



In order to make bending, stripping and punching even easier, as well as to make the serial details dimensions more accurate, TEKNOMEGA has developed a series of user-friendly hand tools.

APPLICATION ADVANTAGES

1) The simplicity of the tools ensures they are safe and easy to use.
2) quick, accurate work, optimization of connection lengths, reduction of overall dimensions inside the electrical panel board
3) no need for an external power supply
4) easy to carry out work "on site"
5) easy to fit on a workbench

Hand tool to bend and to twist insulated flexible bars

The tool makes it possible to create the optimal bending angles, even with pre-determined and/or repeated angles. It also allows the user to optimize the connection length as well as the overall dimensions and to twist flexible bar to obtain various planes of connection.

Bending:
- Can be used on flexible bars up to 120x10x1 cross-sections.
- Easy to fit on a workbench.
– Quick flexible bar tightening.
- Goniometer to set the bending angle.
- Blocking for repeated work on the same bending angle.
- No damage to the insulation.
- Little effort required thanks to the lever.

Twisting:
- Can be used up to 120x10x1 cross-sections.
- Allows twisting of the insulated flexible bar without damaging the insulation, to get a change in the plane of connection.

Hand tool to drill insulated flexible bars

The drilling tool allows optimal drilling of the terminal destined to the connection, by simply using it with a column or hand drill. The hole is clean, without burr or deformation of the copper laminate, since the laminate package is pressed under a special drilling guide.

- For holes: Ø 6.5 – Ø 8.5 - Ø 10.5 - Ø 12.5
- Used to drill one or more holes on the bar.
- Can be used on laminate ranging from 20mm to 120mm width.
- Quick dies change for the various hole diameters.
- Can be used with column or hand drilling tool.


UBF1005


UBF1005

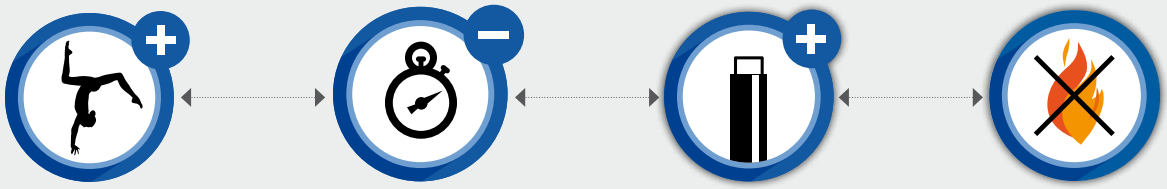

UBF1010

Code	Reference	Description		Weight (Kg)	H (mm)	P (mm)	L (mm)
UBF1005	UPB-T-BFX	Plieuse + tordoir	1	14,4	220	350	220
UBF1010	UFB-BFX	Outil de percage	1	7,1	65	175	240

The indicated dimensions refer to the machine body without lever

Video instructions: www.teknomega.com

J-LINK ADDED VALUE



J-LINK is a ready-to-use flexible prefabricated shunt made of tinned copper braid, coated with PVC insulation.
J-LINK is the quickest and most convenient solution to create electrical connections from 125 to 630 A.
The connection terminals are made of pressed tinned copper tubes. They were designed by looking at the terminals of the most widespread switchgears on the market, thus making it possible to get the best electrical contact possible.
The hole diameter, on one side, allows the optimization of the electrical contact in relation with the switch terminal whilst on the other side allows the possibility to have a universal contact with the bar distribution system.
Made of PVC, the insulation meets all the electrical specifications required in LV applications.
Maximum continuous working temperature is 105°C.

The best alternative to cable connections and flexible bars

ADVANTAGES

Ready-to-use connections: no preventive operation is required
- Extreme flexibility compared to a cable with similar cross-section
- Volume reduction inside the panel board
- Weight reduction
- Great time saving
- No cable to cut to measure
- No stripping of cable heads
- No lug to buy
- No crimping needed

EXCELLENT ELECTRICAL PARAMETERS

- Excellent electrical insulation
- Improved contact surface
- Improved ampacity at equal cross-sections compared to a cable and/or reduced cross-sections at the same rated current
- Reduction in heat due to the lack of crimped connections and to higher ampacities
- Excellent short-circuit resistance

c UL us
File n° E300607

RANGE

Cross-sections: from 25 mm² to 240 mm²
Lengths: from 230 mm to 1030 mm
Rated ampacity: from 125 A to 630 A

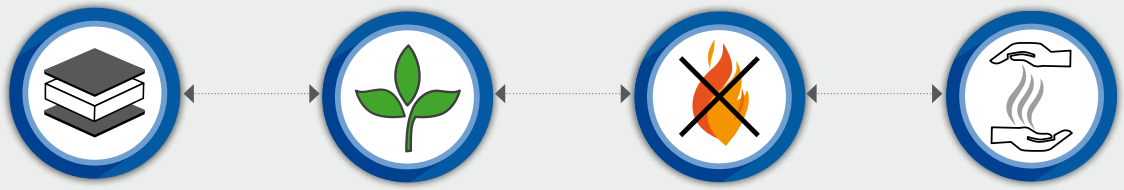
SOLUTIONS FOR THE CLAMPING OF J-LINK

Refer to page 22

J-link Plus

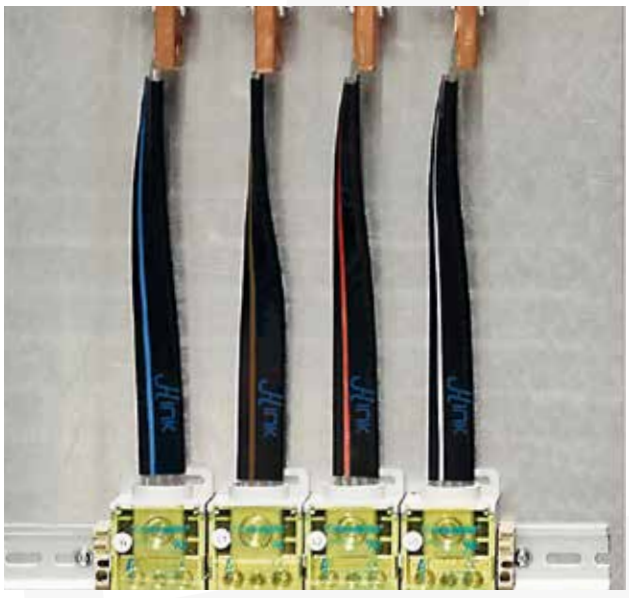
High safety performance with J-LINK PLUS, equipped with halogen free insulation, flame retardant, low smoke emission, hyper flexibility. J-LINK PLUS is recognizable from the light blue line.

J-LINK PLUS ADDED VALUE



J-link Color

Upon request, J-LINK becomes J-LINK COLOR, to identify the phases, or to satisfy personal taste as well as corporate aesthetic.



TECHNICAL FEATURES

Insulation
PVC Compound
Self-extinguishing UL 94-V0
Thickness: ≈ 2 mm
Black color with a white line
Max. elongation: 365%
Hardness: 80 Shore A
Tensile strength: 19 MPa

Finished product
Dielectric rigidity: 20 kV/mm
Rated voltage: 1000 V AC/1500 V DC
Working temperature: -40°C ÷ +105°C

Conductor
Tinned electrolytic copper braid Cu-ETP 99.90%
Standard wire: 0.20 mm
Terminal in tinned copper tube

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File n° E300607

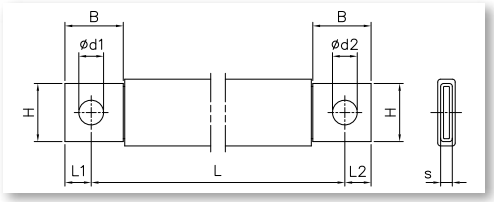
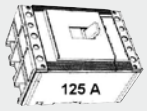
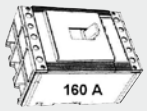
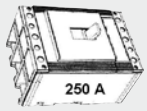
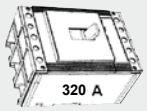
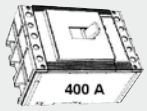
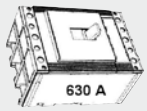


Table of ampacities (A) based on the switch ampacity or on the ΔT temperature rise as per standard IEC 61439-1
Reference room temperature 40°C

Code	Reference		Sect. (mm²)	Use with switch	Dimensions (mm)								Rated Intensity In (A) Temperature Rise ΔT		
					L	B	H	L1	L2	d1	d2	s	45°C	35°C	25°C
JLK1000	JLK 25-230	10	25		230	20	20	7,5	7,5	8,5	10,5	4,3	185	175	145
JLK1005	JLK 25-330	10	25		330	20	20	7,5	7,5	8,5	10,5	4,3			
JLK1010	JLK 25-430	10	25		430	20	20	7,5	7,5	8,5	10,5	4,3			
JLK1015	JLK 25-530	10	25		530	20	20	7,5	7,5	8,5	10,5	4,3			
JLK1020	JLK 25-630	10	25		630	20	20	7,5	7,5	8,5	10,5	4,3			
JLK1021	JLK 25-730	10	25		730	20	20	7,5	7,5	8,5	10,5	4,3			
JLK1022	JLK 25-830	10	25		830	20	20	7,5	7,5	8,5	10,5	4,3			
JLK1023	JLK 25-930	10	25		930	20	20	7,5	7,5	8,5	10,5	4,3			
JLK1024	JLK 25-1030	10	25		1030	20	20	7,5	7,5	8,5	10,5	4,3			
JLK1025	JLK 35-230	10	35		230	20	20	9	9	8,5	10,5	4,9	225	205	170
JLK1030	JLK 35-330	10	35		330	20	20	9	9	8,5	10,5	4,9			
JLK1035	JLK 35-430	10	35		430	20	20	9	9	8,5	10,5	4,9			
JLK1040	JLK35-530	10	35		530	20	20	9	9	8,5	10,5	4,9			
JLK1045	JLK 35-630	10	35		630	20	20	9	9	8,5	10,5	4,9			
JLK1046	JLK 35-730	10	35		730	20	20	9	9	8,5	10,5	4,9			
JLK1047	JLK 35-830	10	35		830	20	20	9	9	8,5	10,5	4,9			
JLK1048	JLK 35-930	10	35		930	20	20	9	9	8,5	10,5	4,9			
JLK1049	JLK 35-1030	10	35		1030	20	20	9	9	8,5	10,5	4,9			
JLK1050	JLK 50-230	10	50		230	20	20	9	9	8,5	10,5	5	280	250	220
JLK1055	JLK 50-330	10	50		330	20	20	9	9	8,5	10,5	5			
JLK1060	JLK 50-430	10	50		430	20	20	9	9	8,5	10,5	5			
JLK1065	JLK 50-530	10	50		530	20	20	9	9	8,5	10,5	5			
JLK1070	JLK 50-630	10	50		630	20	20	9	9	8,5	10,5	5			
JLK1071	JLK 50-730	10	50		730	20	20	9	9	8,5	10,5	5			
JLK1072	JLK 50-830	10	50		830	20	20	9	9	8,5	10,5	5			
JLK1073	JLK 50-930	10	50		930	20	20	9	9	8,5	10,5	5			
JLK1074	JLK 50-1030	10	50		1030	20	20	9	9	8,5	10,5	5			
JLK1140	JLK 85-230	2	85		230	25	24	9,5	11	8,5	10,5	6,5	350	320	270
JLK1145	JLK 85-330	2	85		330	25	24	9,5	11	8,5	10,5	6,5			
JLK1150	JLK 85-430	2	85		430	25	24	9,5	11	8,5	10,5	6,5			
JLK1155	JLK 85-530	2	85		530	25	24	9,5	11	8,5	10,5	6,5			
JLK1160	JLK 85-630	2	85		630	25	24	9,5	11	8,5	10,5	6,5			
JLK1165	JLK 85-730	2	85		730	25	24	9,5	11	8,5	10,5	6,5			
JLK1170	JLK 85-830	2	85		830	25	24	9,5	11	8,5	10,5	6,5			
JLK1175	JLK 85-930	2	85		930	25	24	9,5	11	8,5	10,5	6,5			
JLK1180	JLK 85-1030	2	85		1030	25	24	9,5	11	8,5	10,5	6,5			
JLK1075	JLK 120-330	2	120		330	30	30	11	15	10,5	10,5	7,5	440	400	335
JLK1080	JLK 120-430	2	120		430	30	30	11	15	10,5	10,5	7,5			
JLK1085	JLK 120-530	2	120		530	30	30	11	15	10,5	10,5	7,5			
JLK1090	JLK 120-630	2	120		630	30	30	11	15	10,5	10,5	7,5			
JLK1095	JLK 120-730	2	120		730	30	30	11	15	10,5	10,5	7,5			
JLK1096	JLK 120-830	2	120		830	30	30	11	15	10,5	10,5	7,5			
JLK1097	JLK 120-930	2	120		930	30	30	11	15	10,5	10,5	7,5			
JLK1098	JLK 120-1030	2	120		1030	30	30	11	15	10,5	10,5	7,5			
JLK1100	JLK 240-330	2	240		330	35	32	16	16	12,5	10,5	12,5	730	680	565
JLK1105	JLK 240-430	2	240		430	35	32	16	16	12,5	10,5	12,5			
JLK1110	JLK 240-530	2	240		530	35	32	16	16	12,5	10,5	12,5			
JLK1115	JLK 240-630	2	240		630	35	32	16	16	12,5	10,5	12,5			
JLK1120	JLK 240-730	2	240		730	35	32	16	16	12,5	10,5	12,5			
JLK1125	JLK 240-830	2	240		830	35	32	16	16	12,5	10,5	12,5			
JLK1130	JLK 240-930	2	240		930	35	32	16	16	12,5	10,5	12,5			
JLK1135	JLK 240-1030	2	240		1030	35	32	16	16	12,5	10,5	12,5			

Derating coefficient for use of J-LINK in parallel

Cross-section (mm²)		
25	1,70	2,00
35	1,70	2,00
50	1,70	1,95
120	1,65	1,85
240	1,55	1,75

Comparison between the use of cable and J-LINK

In (A)	**Cable Type N07-VK Cross-section (mm2)	J-LINK Cross-section (mm2)
125	35	25
160	50 ÷ 70	25 ÷ 35
250	95 ÷ 120	50
400	185	120
630	2 x 150	240

*** Indicative data*

TECHNICAL FEATURES

Insulation
TPE Compound
Self-extinguishing UL 94-V0
Thickness: ≈ 1,8 mm
Black color with a light blue line
Max. elongation: 550%
Hardness: 80 Shore A
Tensile strength: 6MPa
Halogen free
Low smoke emission

Finished product
Dielectric rigidity: 20 kV/mm
Rated voltage: 1000 V AC/1500 V DC
Working temperature:
-40°C ÷ +140°C

Conductor
Tinned electrolytic copper braid Cu-ETP 99,90%
Standard wire: 0.20mm

c UL us
File n° E300607

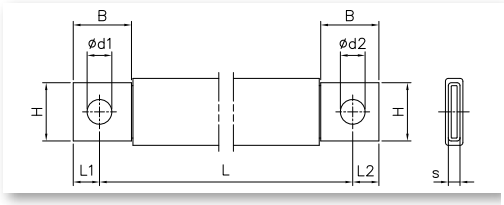
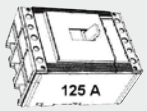
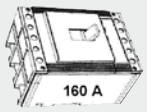
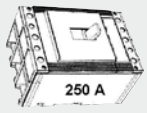
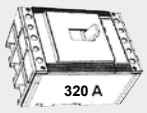
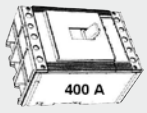
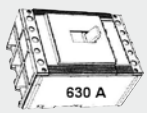


Table of ampacities (A) based on the switch ampacity or on the ΔT temperature rise as per standard IEC 61439-1
Reference room temperature 40°C

Code	Reference		Sect. (mm²)	Use with switch	Dimensions (mm)								Rated Intensity In (A) Temperature Rise ΔT		
					L	B	H	L1	L2	d1	d2	s	45°C	35°C	25°C
JLK5000	JLP 25-230	10	25	 125 A	230	20	20	7,5	7,5	8,5	10,5	4,3	185	175	145
JLK5005	JLP 25-330	10	25		330	20	20	7,5	7,5	8,5	10,5	4,3			
JLK5010	JLP 25-430	10	25		430	20	20	7,5	7,5	8,5	10,5	4,3			
JLK5015	JLP 25-530	10	25		530	20	20	7,5	7,5	8,5	10,5	4,3			
JLK5020	JLP 25-630	10	25		630	20	20	7,5	7,5	8,5	10,5	4,3			
JLK5021	JLP 25-730	10	25		730	20	20	7,5	7,5	8,5	10,5	4,3			
JLK5022	JLP 25-830	10	25		830	20	20	7,5	7,5	8,5	10,5	4,3			
JLK5023	JLP 25-930	10	25		930	20	20	7,5	7,5	8,5	10,5	4,3			
JLK5024	JLP 25-1030	10	25		1030	20	20	7,5	7,5	8,5	10,5	4,3			
JLK5025	JLP 35-230	10	35	 160 A	230	20	20	9	9	8,5	10,5	4,9	225	205	170
JLK5030	JLP 35-330	10	35		330	20	20	9	9	8,5	10,5	4,9			
JLK5035	JLP 35-430	10	35		430	20	20	9	9	8,5	10,5	4,9			
JLK5040	JLP 35-530	10	35		530	20	20	9	9	8,5	10,5	4,9			
JLK5045	JLP 35-630	10	35		630	20	20	9	9	8,5	10,5	4,9			
JLK5046	JLP 35-730	10	35		730	20	20	9	9	8,5	10,5	4,9			
JLK5047	JLP 35-830	10	35		830	20	20	9	9	8,5	10,5	4,9			
JLK5048	JLP 35-930	10	35		930	20	20	9	9	8,5	10,5	4,9			
JLK5049	JLP 35-1030	10	35		1030	20	20	9	9	8,5	10,5	4,9			
JLK5050	JLP 50-230	10	50	 250 A	230	20	20	9	9	8,5	10,5	5	280	250	220
JLK5055	JLP 50-330	10	50		330	20	20	9	9	8,5	10,5	5			
JLK5060	JLP 50-430	10	50		430	20	20	9	9	8,5	10,5	5			
JLK5065	JLP 50-530	10	50		530	20	20	9	9	8,5	10,5	5			
JLK5070	JLP 50-630	10	50		630	20	20	9	9	8,5	10,5	5			
JLK5071	JLP 50-730	10	50		730	20	20	9	9	8,5	10,5	5			
JLK5072	JLP 50-830	10	50		830	20	20	9	9	8,5	10,5	5			
JLK5073	JLP 50-930	10	50		930	20	20	9	9	8,5	10,5	5			
JLK5074	JLP 50-1030	10	50		1030	20	20	9	9	8,5	10,5	5			
JLK5140	JLP 85-230	2	85	 320 A	230	25	24	9,5	11	8,5	10,5	6,5	350	320	270
JLK5145	JLP 85-330	2	85		330	25	24	9,5	11	8,5	10,5	6,5			
JLK5150	JLP 85-430	2	85		430	25	24	9,5	11	8,5	10,5	6,5			
JLK5155	JLP 85-530	2	85		530	25	24	9,5	11	8,5	10,5	6,5			
JLK5160	JLP 85-630	2	85		630	25	24	9,5	11	8,5	10,5	6,5			
JLK5165	JLP 85-730	2	85		730	25	24	9,5	11	8,5	10,5	6,5			
JLK5170	JLP 85-830	2	85		830	25	24	9,5	11	8,5	10,5	6,5			
JLK5175	JLP 85-930	2	85		930	25	24	9,5	11	8,5	10,5	6,5			
JLK5180	JLP 85-1030	2	85		1030	25	24	9,5	11	8,5	10,5	6,5			
JLK5075	JLP 120-330	2	120	 400 A	330	30	30	11	15	10,5	10,5	7,5	440	400	335
JLK5080	JLP 120-430	2	120		430	30	30	11	15	10,5	10,5	7,5			
JLK5085	JLP 120-530	2	120		530	30	30	11	15	10,5	10,5	7,5			
JLK5090	JLP 120-630	2	120		630	30	30	11	15	10,5	10,5	7,5			
JLK5095	JLP 120-730	2	120		730	30	30	11	15	10,5	10,5	7,5			
JLK5096	JLP 120-830	2	120		830	30	30	11	15	10,5	10,5	7,5			
JLK5097	JLP 120-930	2	120		930	30	30	11	15	10,5	10,5	7,5			
JLK5098	JLP 120-1030	2	120		1030	30	30	11	15	10,5	10,5	7,5			
JLK5100	JLP 240-330	2	240	 630 A	330	35	32	16	16	12,5	10,5	12,5	730	680	565
JLK5105	JLP 240-430	2	240		430	35	32	16	16	12,5	10,5	12,5			
JLK5110	JLP 240-530	2	240		530	35	32	16	16	12,5	10,5	12,5			
JLK5115	JLP 240-630	2	240		630	35	32	16	16	12,5	10,5	12,5			
JLK5120	JLP 240-730	2	240		730	35	32	16	16	12,5	10,5	12,5			
JLK5125	JLP 240-830	2	240		830	35	32	16	16	12,5	10,5	12,5			
JLK5130	JLP 240-930	2	240		930	35	32	16	16	12,5	10,5	12,5			
JLK5135	JLP 240-1030	2	240		1030	35	32	16	16	12,5	10,5	12,5			

Derating coefficient for use of J-LINK PLUS in parallel

Cross-section (mm²)		
25	1,70	2,00
35	1,70	2,00
50	1,70	1,95
120	1,65	1,85
240	1,55	1,75

Comparison between the use of cable and J-LINK PLUS

In (A)	**Cable Type N07-VK	J-LINK
	Cross-section (mm2)	
125	35	25
160	50 ÷ 70	25 ÷ 35
250	95 ÷ 120	50
400	185	120
630	2 x 150	240

*** Indicative data*

Copper and Aluminium **busbars**

Two metals are currently used as conductors in electrical panel boards: copper and aluminium.
In particular, when needing to define the power distribution inside an electrical panel board, people mainly choose to use drawn bars, using both the above mentioned metals.
In configuring a bar distribution system, it is important to consider some electrical and mechanical parameters such as those listed below:
Electrical parameters: rated intensity value to carry based on the conductor cross-section and number, and the resulting voltage loss.
Mechanical parameters: bar size and number, based on the panel board dimensions and on their mechanical resistance.

Other factors to consider which might limit the passage of current through the selected conductors are linked to the working temperature of the conductor and to its capability to dissipate heat.
In electricity, there is also a phenomenon called "skin effect" which determines the concentration of current on the conductors surface. The best conductor is therefore a flat one such as drawn bars in which the bar length and thickness ratio is the highest possible.
E.g. for the same cross-section and working temperature, a 100x5 mm bar carries 1.431 A, whereas the same cross-section, with 50x10 mm bar carries 1.129 A (cf. ampacity values on pagee 22, table for solid copper bars, referred to a ΔT 50°C).

ADVANTAGES

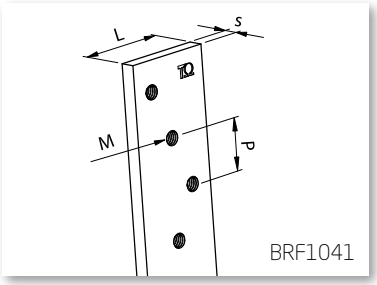
Prepunched and threaded copper bars
ready to use
no need for punching tools
wiring time savings

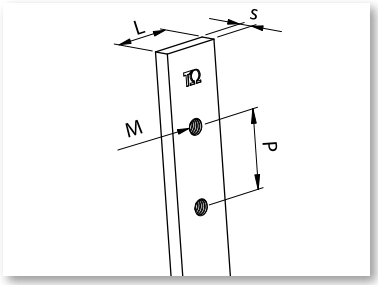
Solid aluminium bars
When compared to a copper bar with the same cross-section there is a significant weight saving, up to 70% less, with an ampacity reduction of about 30%.
Significant cost saving advantages due to the different cost of the raw material and, especially, the great difference in the weight/volume ratio.

TECHNICAL FEATURES

Copper bars:
Electrolytic copper Cu-ETP 99.90%
Rounded corners
tensile strength: 250 N/mm²
resistivity: 0,0172 Ω mm²/m
density: 8.9 kg/dm³

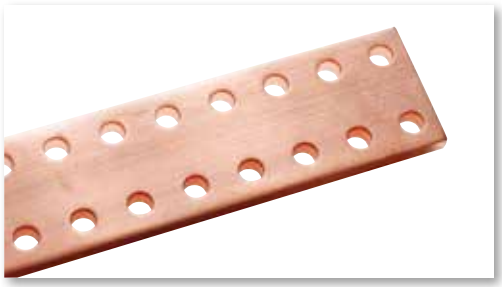
Aluminium bars:
Aluminium type EN-AW 1050 A
Rounded corners
tensile strength: 60 N/mm²
resistivity: 0.0286 Ω mm²/m
density: 2.7 kg/dm³

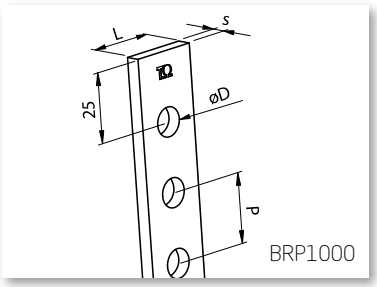


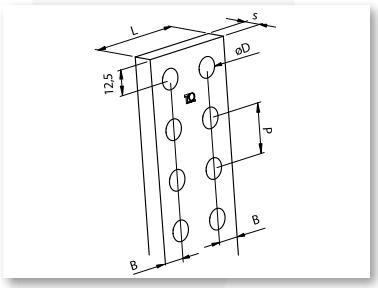


THREADED COPPER BARS - Thickness 2 - 3 - 4 - 5 - 10 mm - Length 1000 and 2000 mm

Code	Reference		Weight (Kg)	L (mm)	s (mm)	P (mm)	M
BRF0990	BRF 12X2X1000	10	0,22	12	2	18	M5
BRF0995	BRF 12X3X1000	10	0,32	12	3	18	M5
BRF1000	BRF 12X4X1000	10	0,42	12	4	18	M5
BRF1005	BRF 12X5X1000	10	0,49	12	5	18	M5
BRF1010	BRF 15X5X1000	4	0,64	15	5	25	M6
BRF1015	BRF 20X5X1000	4	0,84	20	5	25	M6
BRF1016	BRF 25X4X1000	4	0,80	25	4	25	M6
BRF1017	BRF 25X5X1000	4	1,12	25	5	25	M6
BRF1020	BRF 32X5X1000	4	1,35	32	5	25	M6
BRF1025	BRF 12X4X2000	10	0,84	12	4	18	M5
BRF1030	BRF 15X5X2000	4	1,18	15	5	25	M6
BRF1031	BRF 15X5X2000 PC	4	1,16	15	5	18	M6
BRF1035	BRF 20X5X2000	4	1,66	20	5	25	M6
BRF1036	BRF 20X5X2000 PC	4	1,60	20	5	20	M6
BRF1040	BRF 30X5X2000	4	2,49	30	5	25	M6
BRF1042	BRF 32X5X2000	4	2,85	32	5	25	M6
BRF1041	BRF 32X5X2000-W	4	2,65	32	5	17,5	M6
BRF1045	BRF 30X10X1000	4	2,49	30	10	25	M8
BRF1047	BRF 30X10X2000	4	4,98	30	10	25	M8

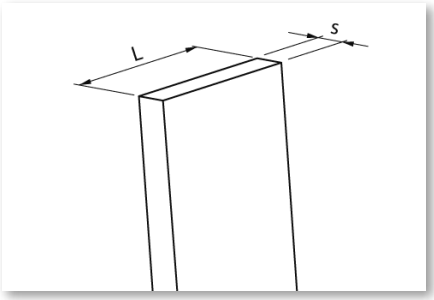






PREPUNCHED COPPER BARS - Thickness 5 - 10 mm - Length 1750 mm

Code	Reference		Weight (Kg)	L (mm)	s (mm)	P (mm)	D Ø (mm)	B (mm)
BRP1000	BRP 25X5	2	1,39	25	5	25	10,5	12,5
BRP1005	BRP 50X5	2	3,39	50	5	25	10,5	12,5
BRP1010	BRP 63X5	2	4,39	63	5	25	10,5	12,5
BRP1015	BRP 80X5	2	5,69	80	5	25	10,5	12,5
BRP1020	BRP 100X5	2	7,24	100	5	25	10,5	12,5
BRP1030	BRP 50X10	2	6,70	50	10	25	10,5	12,5
BRP1035	BRP 60X10	2	8,79	60	10	25	10,5	12,5
BRP1040	BRP 80X10	2	11,30	80	10	25	10,5	12,5
BRP1045	BRP 100X10	2	14,40	100	10	25	10,5	12,5
BRP1050	BRP 120X10	2	18,30	120	10	25	10,5	12,5



SOLID COPPER BARS - Thickness 4 - 5 - 10 mm - Length 1750 and 4200 mm

Code	Reference		Code	Reference		Weight (Kg/m)	L (mm)	s (mm)
Longueur 1750 mm			*** Longueur 4200 mm**					
PRP2990	PRP 12x4x1750	2	**PRP0990**	PRP 12X4	1	0,43	12	4
PRP2000	PRP 20x5x1750	2	**PRP1000**	PRP 20x5	1	0,89	20	5
PRP2005	PRP 25x5x1750	2	**PRP1005**	PRP 25x5	1	1,11	25	5
PRP2010	PRP 30x5x1750	2	**PRP1010**	PRP 30x5	1	1,33	30	5
PRP2015	PRP 40x5x1750	2	**PRP1015**	PRP 40x5	1	1,78	40	5
PRP2020	PRP 50x5x1750	2	**PRP1020**	PRP 50x5	1	2,23	50	5
PRP2025	PRP 60x5x1750	2	**PRP1025**	PRP 60x5	1	2,67	60	5
PRP2030	PRP 80x5x1750	2	**PRP1030**	PRP 80x5	1	3,56	80	5
PRP2035	PRP 100x5x1750	2	**PRP1035**	PRP 100x5	1	4,45	100	5
PRP2040	PRP 125x5x1750	2	**PRP1040**	PRP 125x5	1	5,56	125	5
PRP2045	PRP 30x10x1750	2	**PRP1045**	PRP 30x10	1	2,67	30	10
PRP2050	PRP 40x10x1750	2	**PRP1050**	PRP 40x10	1	3,56	40	10
PRP2055	PRP 50x10x1750	2	**PRP1055**	PRP 50x10	1	4,45	50	10
PRP2060	PRP 60x10x1750	2	**PRP1060**	PRP 60x10	1	5,34	60	10
PRP2065	PRP 80x10x1750	2	**PRP1065**	PRP 80x10	1	7,12	80	10
PRP2070	PRP 100x10x1750	2	**PRP1070**	PRP 100x10	1	8,90	100	10
PRP2075	PRP 120x10x1750	2	**PRP1075**	PRP 120x10	1	10,70	120	10
			PRP1080	PRP 160x10	1	14,25	160	10
			PRP1085	PRP 200x10	1	17,80	200	10

* Available upon request. Tolerance ±100 mm.

SOLID ALUMINIUM BARS - Thickness 10 mm - Length 2000 and 4000 mm

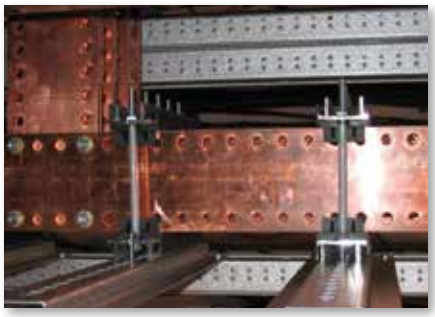
Code	Référence		Code	Référence		Poids (Kg/m)	L (mm)	s (mm)
Longueur 2000 mm			*** Longueur 4000 mm**					
BAP2000	BAP 20x10x2000	2	**BAP4000**	BAP 20x10x4000	1	0,54	20	10
BAP2005	BAP 30x10x2000	2	**BAP4005**	BAP 30x10x4000	1	0,81	30	10
BAP2010	BAP 40x10x2000	2	**BAP4010**	BAP 40x10x4000	1	1,08	40	10
BAP2015	BAP 50x10x2000	2	**BAP4015**	BAP 50x10x4000	1	1,35	50	10
BAP2020	BAP 60x10x2000	2	**BAP4020**	BAP 60x10x4000	1	1,62	60	10
BAP2025	BAP 80x10x2000	2	**BAP4025**	BAP 80x10x4000	1	2,16	80	10
BAP2030	BAP 100x10x2000	2	**BAP4030**	BAP 100x10x4000	1	2,70	100	10
BAP2035	BAP 120x10x2000	2	**BAP4035**	BAP 120x10x4000	1	3,24	120	10

* Available upon request.

THREADED COPPER BARS

Ampacity (A) table of Copper Bar based on the ΔT temperature rise as per standard DIN 43671
Reference room temperature Ta = 35°C

Dimensions	Sect. (mm^2)	ΔT 30°C	ΔT 50°C
12 x 2	24	108	143
12 x 3	36	120	160
12 x 4	48	160	212
12 x 5	60	183	241
15 x 5	75	218	289
20 x 5	100	274	363
25 x 4	100	288	380
25 x 5	125	327	433
30 x 5	150	379	502
32 x 5	160	400	530
30 x 10	300	573	756



PREPUNCHED COPPER BARS

Ampacity (A) table of Copper Bar based on the ΔT temperature rise as per standard DIN 43671
Reference room temperature Ta = 35°C

Dimensions	Sect. (mm^2)	No. bars in parallel							
		ΔT 30°C				ΔT 50°C			
									
25X5	125	327	586	795	890	433	776	1053	1179
50X5	250	583	994	1260	1411	772	1317	1669	1870
63X5	315	718	1197	1494	1673	951	1586	1980	2217
80X5	400	885	1450	1750	1960	1173	1921	2319	2597
100X5	500	1080	1730	2050	2296	1431	2292	2716	3042
125X5	625	1300	2022	2380	2666	1722	2679	3153	3532
50X10	500	792	1404	1897		1050	1861	2514	
60X10	600	916	1600	2139		1214	2119	2834	
80X10	800	1153	1962	2595		1528	2600	3438	
100X10	1000	1386	2306	3032		1836	3056	4017	
120X10	1200	1618	2660	3478		2144	3524	4609	

SOLID COPPER BARS

Ampacity (A) table of Copper Bar based on the ΔT temperature rise as per standard DIN 43671
Reference room temperature Ta = 35°C

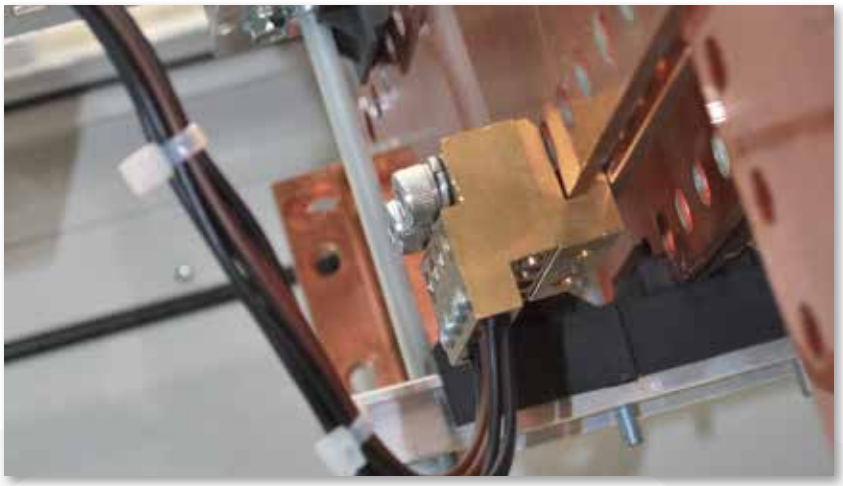
Dimensions	Sect. (mm²)	No. bars in parallel							
		ΔT 30°C				ΔT 50°C			
12 x 4	48	160				212			
12 x 5	60	183	334	460	514	241	440	607	679
15 x 5	75	218	405	567	635	289	537	751	841
20 x 5	100	274	500	690	772	363	663	914	1023
25 x 5	125	327	586	795	890	433	776	1053	1179
30 x 5	150	379	672	896	1003	502	890	1187	1329
32 x 5	160	400	695	931	1043	530	920	1234	1382
40 x 5	200	482	836	1090	1220	639	1108	1444	1617
50 x 5	250	583	994	1260	1411	772	1317	1670	1870
60 x 5	300	688	1150	1440	1613	912	1524	1908	2137
63 x 5	315	718	1197	1494	1673	951	1586	1980	2217
80 x 5	400	885	1450	1750	1960	1173	1921	2319	2597
100 x 5	500	1080	1730	2050	2296	1431	2292	2716	3042
125 x 5	625	1300	2022	2381	2666	1723	2679	3155	3532
20 x 10	200	427	734	959	1151	564	970	1269	1522
30 x 10	300	573	986	1289	1547	756	1300	1701	2041
40 x 10	400	715	1230	1609	1931	944	1624	2124	2549
50 x 10	500	852	1510	2040	2448	1129	2001	2703	3243
60 x 10	600	985	1720	2300	2760	1305	2279	3048	3658
80 x 10	800	1240	2110	2790	3124	1643	2796	3697	4140
100 x 10	1000	1490	2480	3260	3651	1974	3286	4320	4838
120 x 10	1200	1740	2860	3740	4188	2306	3790	4956	5500
160 x 10	1600	2220	3590	4680		2942	4757	6201	
200 x 10	2000	2690	4310	5610		3564	5711	7433	

SOLID ALUMINIUM BARS

Ampacity (A) table of Aluminium Bar based on the ΔT temperature rise as per standard DIN 43670
Reference room temperature Ta = 35°C

Dimensions	Sect. (mm²)	No. bars in parallel							
		ΔT 30°C				ΔT 50°C			
20 x 10	200	331	643	942		434	842	1234	
30 x 10	300	445	832	1200		583	1090	1572	
40 x 10	400	557	1030	1460	1900	730	1349	1913	2489
50 x 10	500	667	1210	1710	2210	874	1585	2240	2895
60 x 10	600	774	1390	1940	2480	1006	1807	2522	3224
80 x 10	800	983	1720	2380	2990	1278	2236	3094	3887
100 x 10	1000	1190	2050	2790	3470	1547	2665	3627	4551
120 x 10	1200	1390	2360	3200	3930	1807	3068	4160	5109

Example of bar choice: for In = 800 A, for Tmax = 85 °C, with 1 bar per phase.
Cf. tables with ΔT = Tmax – Ta =(85-35) = 50 °C with In ≥ 800 A:
- **copper prepunched bar** 63x5 (In = 951 A)
- **solid copper bar:** 63 x 5 (In = 951 A), 40x10 (In = 944 A)
- **solid aluminium bar** 50x10 (In = 874 A)



BOC - Direct hook-up distribution block on copper busbars

Brass distribution block for 5 and 10 mm thick copper bars. Made of:
- 8-output distribution block for direct connection on 25 mm pitch prepunched bars), with hex socket head cap screws
- no-punching connection unit on solid copper bar

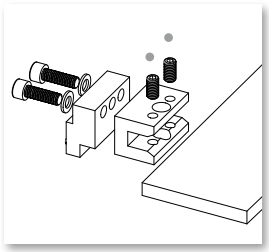
ADVANTAGES

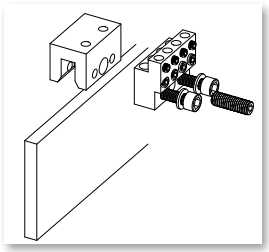
The connection unit can be used as a guide to make punching the 5 and 10 mm thick bars easier. Spacing two or three pre-punched bars becomes simple using the connection unit as a guide. Simple and quick derivations with cables up to 16 and/or 25 mm² (with ferrule) that can be used up to 400 A.

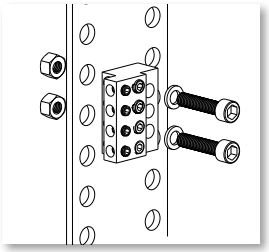
Use with solid bar:
- use both the units
- two mounting possibilities

● Screw sets M8 not included

Use with prepunched bar:
- use only the distribution block unit on single bar phase systems.
- use both units on multi bar phase systems

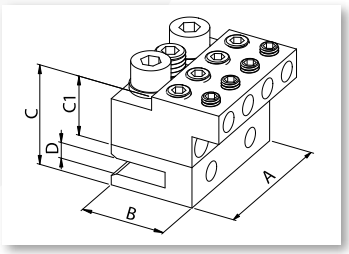




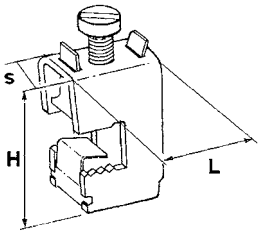


Code	Reference		Weight (kg)	A (mm)	B (mm)	C (mm)	C1 (mm)	D (mm)	(Nm)
BOC1000	BOC RIP 8 *	12	0,22	50	30	-	22	-	
BOC1005	BOC KIT 8 - 5 **	12	0,39	50	30	37	22	5	10
BOC1010	BOC KIT 8 - 10 ***	12	0,51	50	30	52	22	10	10

** 8 output distribution block unit*
*** 8 output distribution block unit + connection unit on 5 mm thick bar*
**** 8 output distribution block unit + connection unit on 10 mm thick bar*



Code	IN/OUT	Stripped cable sect. (mm²)	Cable sect. with ferrule (mm²)	Nr	Ø (mm)	(Nm)
BOC1000 BOC1005 BOC1010	⟵ OUT	2,5 ÷ 25	2,5 ÷ 16	4	7	3
	⟵ OUT	4 ÷ 35	4 ÷ 25	4	9	3,5



TECHNICAL FEATURES

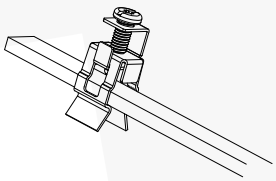
Passivated galvanized steel
Connections on copper bars 5 and 10 mm thick
Suitable for cable cross-sections: from 1.5 to 185 mm²
Screwdriver head for sect. 16 and 35 mm²
Compliant with: EN 60998-1

ADVANTAGES

Easy and quick to use without having to punching.
They allow interventions on already fitted bar systems without having to dismantle them.
The stripped cable is fitted and tightened on the bar by a metal plate, thus preventing the wire from breaking.

TERMINALS FOR CABLE

Code	Reference		H (mm)	L (mm)	S (mm)	Cable cross-section (mm²)	(Nm)
Terminals for 5 mm thick bars							
MCR1000	MCR 5x16	10	26	22	12	1,5 ÷ 16	3
MCR1005	MCR 5x35	10	31	29	16	16 ÷ 35	8
MCR1010	MCR 5x70	10	39	31	21	35 ÷ 70	16
MCR1015	MCR 5x120	10	44	34	24	70 ÷ 120	24
MCR1017	MCR 5x185	10	50	40	28	120 ÷ 185	24
Terminals for 10 mm thick bars							
MCR1020	MCR 10x16	10	31	22	12	1,5 ÷ 16	3
MCR1025	MCR 10x35	10	37	29	16	16 ÷ 35	8
MCR1030	MCR 10x70	10	43	31	21	35 ÷ 70	16
MCR1035	MCR 10x120	10	48	34	24	70 ÷ 120	24
MCR1037	MCR 10x185	10	54	40	28	120 ÷ 185	24



TECHNICAL FEATURES

Passivated galvanized steel
Connections on copper bar 12x4 mm
Suitable for cable cross-sections: from 1.5 to 16 mm²

ADVANTAGES

Easy and quick to use without having to punching.
Mounting clip
The stripped cable is fitted and tightened on the bar by a metal plate, thus preventing the wire from breaking.

TERMINAL WITH CLIP

Code	Reference		Bar cross-section	No. cable	Cable cross- section (mm²)	(Nm)
MCR2000	MCR 4x12	10	12x4	1	1,5 ÷ 16	3

TECHNICAL FEATURES

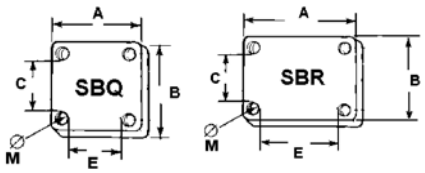
Passivated galvanized steel
Connections: 1 or 2 cables from 1.5 to 10 mm²
Complete with screw M5x12

ADVANTAGES

Easy and quick to use.
Indirect tightening thus preventing the wire from breaking.

SPIDER CONNECTOR FOR THREADED BARS

Code	Reference		Bar cross-section	No. cable	Cable cross-section (mm²)	(Nm)
MCR1100	MCR 4xM5	100	12x4 - 12x5	1 ÷ 2	1,5 ÷ 10	3



TECHNICAL FEATURES

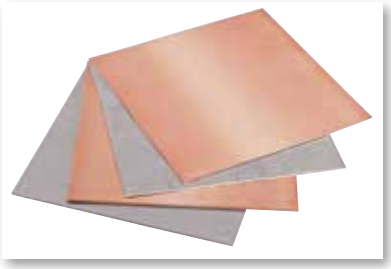
Galvanized steel
Max. tightening thickness 20 mm
(with supplied screws)
Plates thickness 5 mm

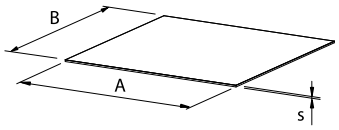
ADVANTAGES

These allow a direct connection without punching and bolting between rigid copper bar systems or with insulated flexible bars. Easy and quick to use, they allow modifications on already fitted bar systems without having to dismantle them to perform the relevant punching.

BUSBAR CLAMPS FOR SOLID AND FLEXIBLE BARS

Code	Reference		E (mm)	C (mm)	A (mm)	B (mm)	Ø - M (mm)	(Nm)
SBR1000	SBR 50x24	4	52	26	77	51	8,5-M8	10
SBR1005	SBR 50x32	4	52	34	77	59	8,5-M8	10
SBR1010	SBR 50x40	4	52	42	77	67	8,5-M8	10
SBR1015	SBR 80x24	4	82	26	107	51	8,5-M8	10
SBR1020	SBR 80x32	4	82	34	107	59	8,5-M8	10
SBR1025	SBR 80x50	4	82	52	107	77	8,5-M8	10
SBQ1000	SBQ 30x30	4	32	32	53	53	6,5-M6	10
SBQ1005	SBQ 40x40	4	42	42	63	63	6,5-M6	10
SBQ1010	SBQ 50x50	4	52	52	77	77	8,5-M8	10
SBQ1015	SBQ 63x63	4	65	65	90	90	8,5-M8	10
SBQ1020	SBQ 80x80	4	82	82	115	115	10,5-M10	10
SBQ1025	SBQ 100x100	4	102	102	135	135	10,5-M10	10





TECHNICAL FEATURES

Bimetallic elements consist of copper plated aluminium plates.
Copper: 30% of the total weight

ADVANTAGES

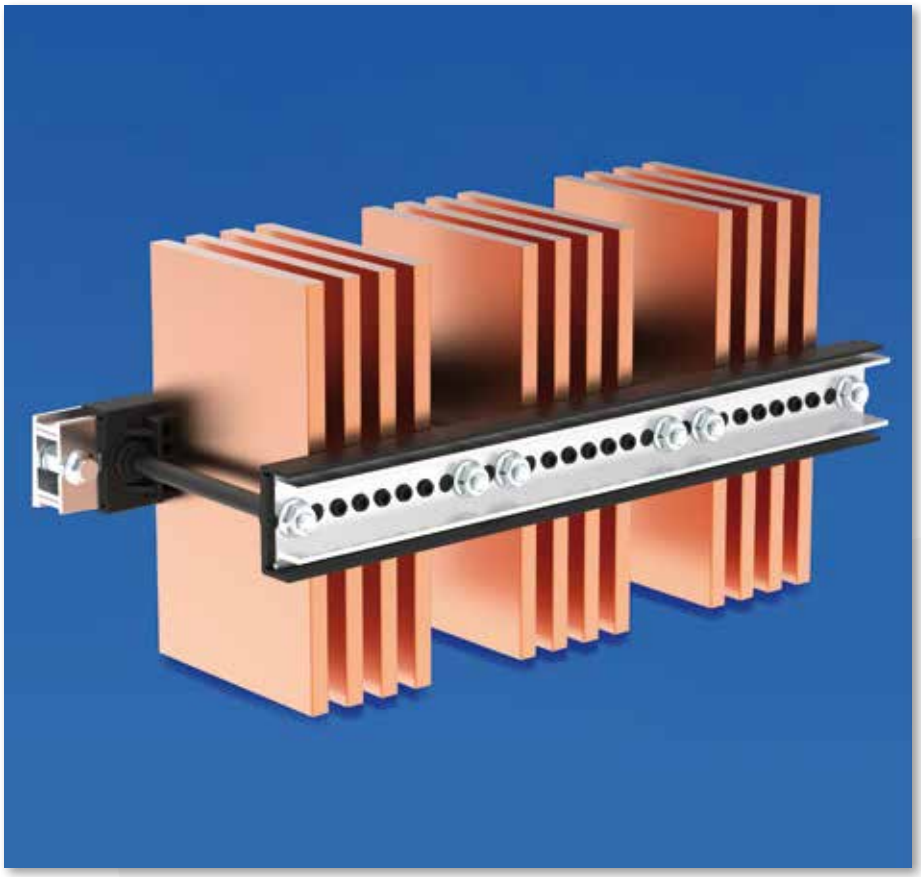
Secure contact
Corrosion protected connection between copper and aluminum

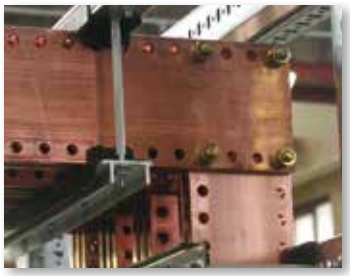
BIMETALLIC (Cu-Al) SHEET

Code	Reference		A (mm)	B (mm)	s (mm)
PBM1000	PBM 100x100	10	100	100	1,0

BIMETALLIC (Cu-Al) WASHERS

Code	Reference		D1 (mm)	D2 (mm)	s (mm)
PBM2000	RBM M6	100	15	6,5	1,0
PBM2005	RBM M8	100	18	8,5	1,0
PBM2010	RBM M10	50	22	10,5	1,5
PBM2015	RBM M12	50	25	12,5	2,0





APPLICATIONS

TEKNOMEGA bar supports make it possible to efficiently and conveniently support all copper and/or aluminium bar systems inside an electrical cabinet

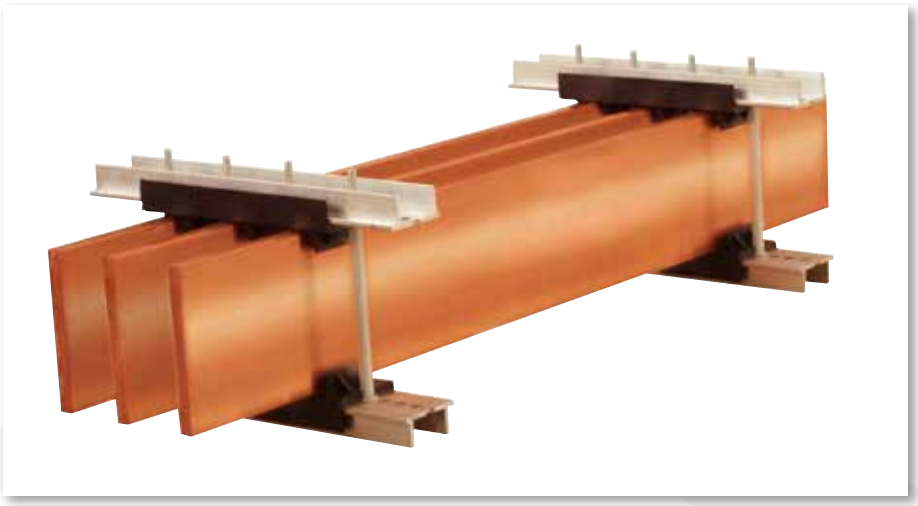
The versatility and universality of our bar supports allows the panel board fitter to easily handle the few references to make a wide range of configurations in any type of panel board metalwork.
TEKNOMEGA dedicated particular attention on the efficiency and safety of these products, carrying out **TYPE TESTS** on all the here indicated references as per the requirements of the reference standards at acknowledged laboratories.

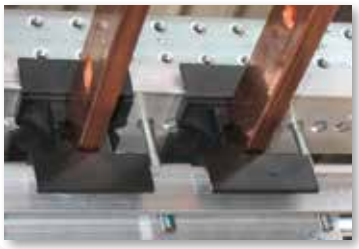
ADVANTAGES

Complete range to support side and flat bars
For copper and aluminium bars
Maximum versatility of use and application
Quick and simplified universal fitting

Can be used on the following thicknesses:
5 and 10 mm

Tested and certified in compliance with standard IEC 61439-2





The Ω TOP bar support is built using two references only:
1) aluminium support and fitting rail.
2) set of blocks/screws with all that is needed to make a bar support.
There are also some pre-assembled bar supports for panel boards 400 and 600 mm depth, as well as accessories such as:
- rilsan tube advised for configurations with minimum spacing between phases
- brackets for horizontal omnibus and vertical busbar (to be used also to compensate the offset between different bar systems).

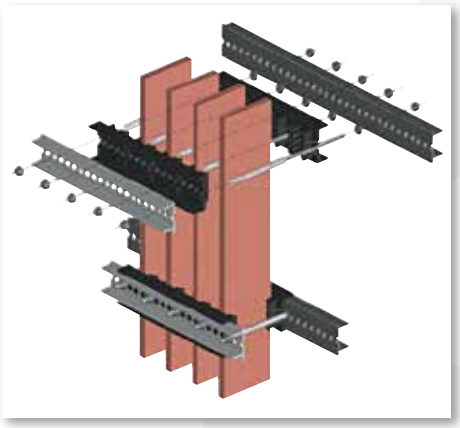
TECHNICAL FEATURES

Adjustable distance between phases
Exceptional resistance to short-circuits
High versatility
Sets of blocks with screws
Prepunched support rail in non-magnetic aluminium
Bar thickness 5 and 10 mm

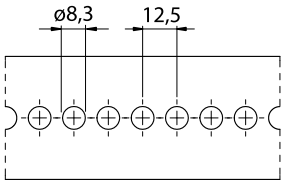
Insulating blocks
Made in PA 66 reinforced 30% Fiberglass
Self-extinguishing UL 94-V0
Colour: black
Halogen Free

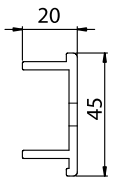
Rail
Non-magnetic aluminium EN AW-6060

Certifications
Compliant with standard IEC 61439-2
Ω TOP was tested in laboratory
ACAE IA01
CERTIFICATES ACAE-LOVAG
No. A 15.001 - A 15.002 - A015.003
Mechanical resistance tests



Ω TOP - Universal bar support



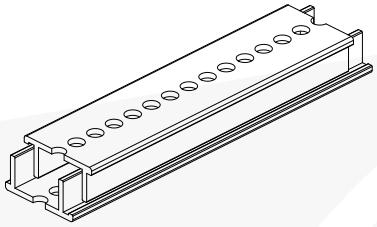


file n° E300607

SUPPORT RAIL

Code	Reference		Weight (Kg)
TOP1000	TOP PR2000	2	1,2

- One code for all configurations
- Made in aluminium, prepunched with 12.5 mm pitch.
- Length 2 meters
- Used in pairs, thanks to the asymmetric shape, it forms a high mechanical resistance structure (for high horizontal loads)



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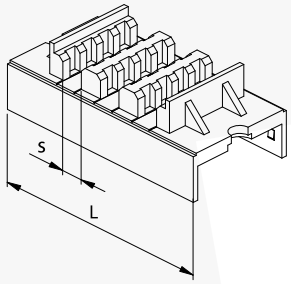


BLOCKS AND SCREW SET

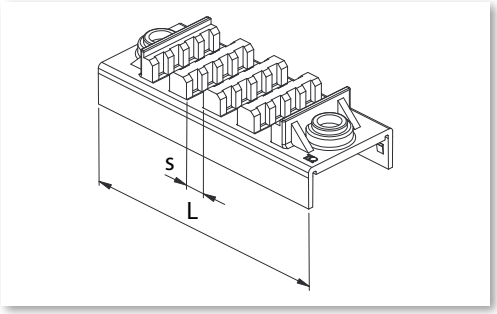
Code	Reference		Type	Total No. blocks	No. tie-rods	No. bars	s (mm)	bar min-max H (mm)	L (mm)
TOP1005	TOP 2/5T	1	T	6	4	1÷2	5	30-125	50
TOP1010	TOP 2/5TN	1	T+N	8	5	1÷2	5	30-125	50
TOP1015	TOP 4/5T	1	T	6	4	1÷4	5	30-125	75
TOP1020	TOP 4/5TN	1	T+N	8	5	1÷4	5	30-125	75
TOP1025	TOP 1/10T	1	T	6	4	1	10	30-120	50
TOP1030	TOP 1/10TN	1	T+N	8	5	1	10	30-120	50
TOP1035	TOP 2/10T	1	T	6	4	1÷2	10	30-120	75
TOP1040	TOP 2/10TN	1	T+N	8	5	1÷2	10	30-120	75
TOP1045	TOP 3/10T	1	T	6	4	1÷3	10	30-120	100
TOP1050	TOP 3/10TN	1	T+N	8	5	1÷3	10	30-120	100

The set is made of insulating blocks for 5 to 10 mm thick bars and of all the screws and tie-rods needed to make T (3-pole) or T+N (3-pole+neutral) configured bar support

Example: to make a bar support in 3-pole+Neutral(TN),
with 2 bars per phase, 10 mm thick = 2/10 TN

Select:

Aluminium rail	TOP1000
Set of blocks and screws	TOP1040



BLOCKS AND SCREW SET Ω TOP 4/10

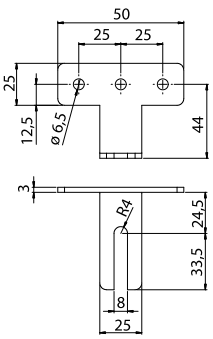
Code	Reference		Type	n° blocks	n° Tie-rods	n° bars	s (mm)	H min-max bar (mm)	L (mm)
TOP1052	TOP 4/10T	1	T	6	6	1÷4	10	30-120	125
TOP1053	TOP 4/10TN	1	T+N	8	8	1÷4	10	30-120	125

file n° E300607

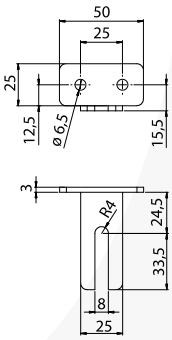
PRE-ASSEMBLED BAR SUPPORTS

Code	Reference		Type
TOP1060	TOP 2/5TN-400	1	T+N
TOP1065	TOP 1/10TN-400	1	T+N
TOP1070	TOP 2/5TN-600	1	T+N
TOP1075	TOP 2/10TN-600	1	T+N

TOP1100



TOP1105



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ACCESSORIES

Code	Reference	Description	
TOP1055	TOP TI	Rilsan tube for tie-rod insulation	100
TOP1100	TOP SQ-O	Bracket for horizontal busbar	10
TOP1105	TOP SQ-V	Bracket for vertical busbar	10

INFORMATION

- The distances between supports (in mm) are computed considering the yield of copper; the indicated values therefore prevent permanent deformation of the copper bars when stressed by short-circuit conditions.
- The first and last bar support must be assembled at a distance from the bar extremities not exceeding 1/4 of the distance requested between supports.
- For short-circuit resistance values other than or intermediate to the indicated ones:
- For configurations other than the indicated ones:
- For distances between phases intermediate or higher than the indicated ones:
- For aluminium bars

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- The first indicated value as the "Spacing between phases" is the minimum possible obtainable for the specific configuration of bar supports (values marked in bold in the tables).
- In some configurations with minimum spacing between phases, it might be difficult for the internal phases to insert the screws; one should do one phase at a time.
- In configurations with minimum spacing between phases, one should use the TOP1055 RILSAN tube to insulate the tie-rod.

Important

- For configurations starting from copper 80x10 bar No. 2 or 50x10 bar No. 3 per phase, one should use the DOUBLE aluminium rail (i.e. two coupled rails, one inside the other, to create a kind of square pipe with significant mechanical rigidity)

Distance between supports depending on Icc (short-circuit current)

Icc pk = *Short-circuit current peak value expressed in kA*
Icc rms = *Effective value of short-circuit current, duration equal to 1 second, expressed in kA*

Ω TOP 4 / 10 >> 4 BARS PER PHASE

Icc pk (kA)		105			165			187			220			264		
Icc rms (kA)		50			75			85			100			120		
Spacing between phases (mm)		125	150	175	125	150	175	125	150	175	125	150	175	125	150	175
BAR CROSS-SECTION H x s	50X10	**900**	900	900	**600**	657	710	**498**	580	626	**359**	431	503	**249**	299	349
	60X10	**900**	900	900	**639**	720	778	**498**	597	686	**359**	431	503	**249**	299	349
	80X10	**900**	900	900	**639**	767	895	**498**	597	697	**359**	431	503	**249**	299	349
	100X10	**900**	900	900	**639**	767	895	**498**	597	697	**359**	431	503	**249**	299	349
	120X10	**900**	900	900	**639**	767	895	**498**	597	697	**359**	431	503	**249**	299	349

Ω TOP 4 / 10 >> 3 BARS PER PHASE

Icc pk (kA)		105			165			187			220			242		
Icc rms (kA)		50			75			85			100			110		
Spacing between phases (mm)		125	150	175	125	150	175	125	150	175	125	150	175	125	150	175
BAR CROSS-SECTION H x s	50X10	**817**	895	900	**520**	569	615	**458**	502	542	**332**	399	461	**274**	329	384
	60X10	**895**	900	900	**569**	624	674	**460**	550	594	**332**	399	465	**274**	329	384
	80X10	**900**	900	900	**591**	709	778	**460**	552	644	**332**	399	465	**274**	329	384
	100X10	**900**	900	900	**591**	709	828	**460**	552	644	**332**	399	465	**274**	329	384
	120X10	**900**	900	900	**591**	709	828	**460**	552	644	**332**	399	465	**274**	329	384

• *values marked in bold refer to the MINIMUM spacing between phases*

Ω TOP 3 / 10 >> 3 BARS PER PHASE

Icc pk (kA)		105				143				165				187				220			
Icc rms (kA)		50				65				75				85				100			
Spacing between phases (mm)		100	125	150	175	100	125	150	175	100	125	150	175	100	125	150	175	100	125	150	175
BAR CROSS-SECTION H x s	30x10	**566**	633	693	749	**415**	464	509	549	**360**	402	441	476	**317**	355	389	420	**249**	302	330	357
	40x10	**653**	730	800	864	**480**	536	587	635	**416**	465	509	550	**345**	410	449	485	**249**	312	374	412
	50x10	**730**	817	895	900	**536**	600	657	710	**444**	520	569	615	**345**	432	502	542	**249**	312	374	437
	60x10	**800**	895	900	900	**587**	657	720	777	**444**	555	624	674	**345**	432	518	594	**249**	312	374	437
	80x10	**900**	900	900	900	**591**	739	831	898	**444**	555	666	777	**345**	432	518	605	**249**	312	374	437
	100x10	**900**	900	900	900	**591**	739	887	900	**444**	555	666	777	**345**	432	518	605	**249**	312	374	437
	120x10	**900**	900	900	900	**591**	739	887	900	**444**	555	666	777	**345**	432	518	605	**249**	312	374	437

Ω TOP 2 / 10 >> 2 BARS PER PHASE

Icc pk (kA)		74				105				165				187			
Icc rms (kA)		35				50				75				85			
Spacing between phases (mm)		75	100	125	150	75	100	125	150	75	100	125	150	75	100	125	150
BAR CROSS-SECTION H x s	30x10	**571**	660	738	808	**400**	462	516	566	**254**	294	328	360	**224**	259	290	317
	40x10	**660**	762	852	900	**462**	533	596	653	**294**	339	379	416	**254**	299	335	367
	50x10	**738**	852	900	900	**516**	596	667	730	**326**	379	424	465	**254**	335	374	410
	60x10	**808**	900	900	900	**566**	653	730	800	**326**	416	465	509	**254**	338	410	449
	80x10	**900**	900	900	900	**653**	754	844	900	**326**	435	537	588	**254**	338	423	508
	100x10	**900**	900	900	900	**730**	844	900	900	**326**	435	544	652	**254**	338	423	508
	120x10	**900**	900	900	900	**900**	900	900	900	**326**	435	544	652	**254**	338	423	508

Ω TOP 1 / 10 >> 1 BAR PER PHASE

Icc pk (Ka)		52				74				105				143			
Icc rms (Ka)		25				35				50				65			
Spacing between phases (mm)		50	75	100	125	50	75	100	125	50	75	100	125	50	75	100	125
BAR CROSS-SECTION H x s	30x10	**462**	566	653	730	**330**	404	466	522	**231**	283	326	365	**169**	207	240	268
	40x10	**533**	653	754	844	**381**	466	539	602	**266**	326	377	422	**195**	240	277	309
	50x10	**596**	730	844	900	**426**	522	602	674	**298**	365	422	471	**219**	268	309	346
	60x10	**653**	800	900	900	**466**	571	660	738	**326**	400	462	516	**240**	293	339	379
	80x10	**754**	900	900	900	**539**	660	762	852	**377**	462	533	596	**258**	339	391	438
	100x10	**844**	900	900	900	**602**	738	852	900	**422**	516	596	667	**258**	379	438	489
	120x10	**900**	900	900	900	**660**	808	900	900	**462**	566	653	730	**258**	387	480	536

Distance between supports depending on Icc (short-circuit current)

Icc pk = *Short-circuit current peak value expressed in kA*
Icc rms = *Effective value of short-circuit current, duration equal to 1 second, expressed in kA*

Ω TOP 4 / 5 >> 4 BARS PER PHASE

Icc pk (kA)		53				74				105				143				165			
Icc rms (kA)		25				35				50				65				75			
Spacing between phases (mm))		75	100	125	150	75	100	125	150	75	100	125	150	75	100	125	150	75	100	125	150
BAR CROSS-SECTION H x s	30x5	**550**	640	720	780	**400**	460	510	560	**270**	310	340	380	**210**	240	270	290	**180**	210	230	250
	40x5	**640**	740	830	900	**460**	530	590	650	**310**	360	400	440	**240**	270	310	340	**200**	240	270	290
	50x5	**715**	830	900	900	**510**	590	660	720	**340**	400	440	490	**265**	310	340	370	**200**	265	300	320
	63x5	**800**	900	900	900	**570**	660	740	810	**390**	450	500	550	**265**	340	380	420	**200**	265	330	360
	80x5	**900**	900	900	900	**650**	750	840	900	**440**	500	560	620	**265**	355	430	470	**200**	265	330	400
	100x5	**900**	900	900	900	**720**	840	900	900	**450**	560	630	690	**265**	355	430	530	**200**	265	330	400
	125x5	**900**	900	900	900	**810**	900	900	900	**450**	600	700	770	**265**	355	430	530	**200**	265	330	400

Ω TOP 4 / 5 >> 3 BARS PER PHASE

Icc pk (kA)		53				74				105				143				165			
Icc rms (kA)		25				35				50				65				75			
Spacing between phases (mm)		75	100	125	150	75	100	125	150	75	100	125	150	75	100	125	150	75	100	125	150
BAR CROSS-SECTION H x s	30x5	**480**	550	620	680	**340**	400	440	490	**230**	270	300	330	**180**	210	230	250	**150**	180	200	220
	40x5	**550**	640	720	780	**400**	460	510	560	**270**	310	340	380	**210**	240	270	290	**175**	210	230	250
	50x5	**620**	720	800	880	**440**	510	570	630	**300**	340	390	420	**230**	270	300	320	**175**	230	260	280
	63x5	**700**	800	900	900	**500**	570	640	700	**330**	390	430	470	**230**	300	330	360	**175**	230	290	320
	80x5	**780**	900	900	900	**560**	650	720	790	**380**	440	490	530	**230**	310	370	410	**175**	230	290	345
	100x5	**880**	900	900	900	**630**	720	810	890	**390**	490	540	600	**230**	310	385	460	**175**	230	290	345
	125x5	**900**	900	900	900	**700**	810	900	900	**390**	520	610	670	**230**	310	385	465	**175**	230	290	345

• *values marked in bold refer to the MINIMUM spacing between phases*
* *value less than 100 mm*

Distance between supports depending on Icc (short-circuit current)

Icc pk = *Short-circuit current peak value expressed in kA*
Icc rms = *Effective value of short-circuit current, duration equal to 1 second, expressed in kA*

Ω TOP 2 / 5 >> 2 BAR PER PHASE

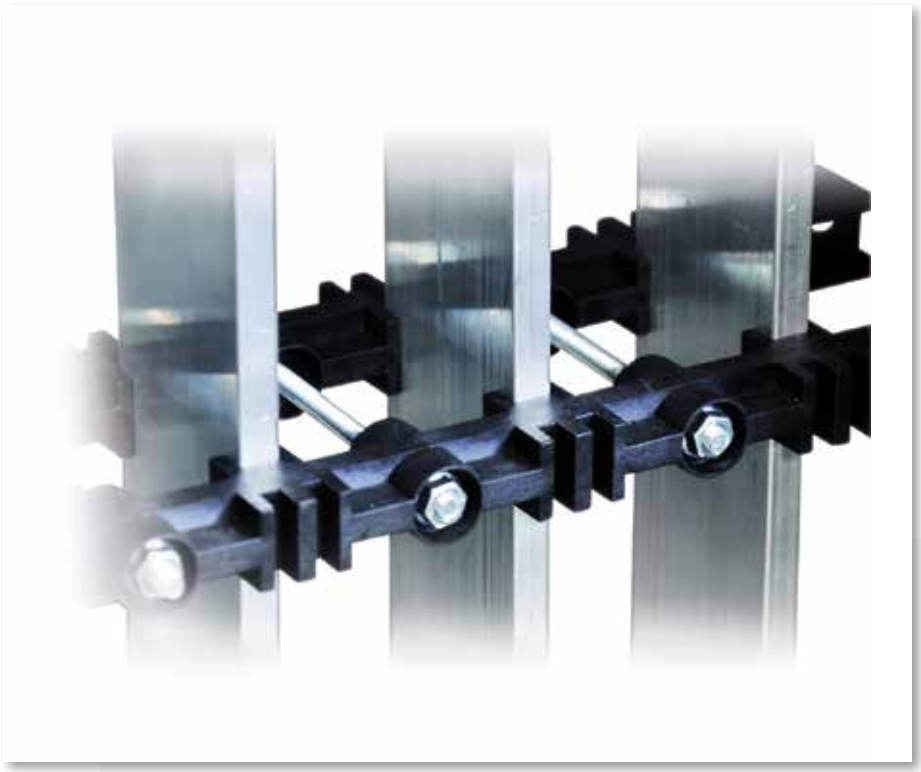
Icc pk (kA)		53				74				105				143			
Icc rms (kA)		25				35				50				65			
Spacing between phases (mm)		50	75	100	125	50	75	100	125	50	75	100	125	50	75	100	125
BAR CROSS-SECTION H x s	30x5	**320**	390	450	510	**230**	280	320	360	**150**	190	220	240	**120**	150	170	190
	40x5	**370**	450	520	580	**260**	320	370	420	**180**	220	250	280	**140**	170	190	220
	50x5	**410**	510	580	650	**300**	360	420	470	**200**	240	280	310	**150**	190	220	240
	63x5	**460**	570	660	730	**330**	410	470	520	**220**	270	320	350	**170**	210	240	270
	80x5	**520**	640	740	830	**370**	460	530	590	**250**	310	360	400	**165**	240	270	310
	100x5	**580**	720	830	900	**420**	510	590	660	**280**	340	400	440	**165**	250	310	340
	125x5	**650**	800	900	900	**470**	570	660	740	**285**	390	440	500	**165**	250	335	380

Ω TOP 2 / 5>> 1 BAR PER PHASE

Icc pk (kA)		53				74				105				143			
Icc rms (kA)		25				35				50				65			
Spacing between phases (mm)		50	75	100	125	50	75	100	125	50	75	100	125	50	75	100	125
BAR CROSS-SECTION H x s	30x5	**225**	280	320	360	**160**	200	230	260	**110**	135	155	175	**-***	100	120	130
	40x5	**265**	320	370	415	**190**	230	265	300	**125**	155	180	200	**-***	120	135	155
	50x5	**295**	360	415	465	**210**	260	300	335	**140**	175	200	225	**110**	130	155	170
	63x5	**330**	405	470	525	**235**	290	335	375	**160**	195	225	250	**120**	150	170	195
	80x5	**370**	455	530	585	**265**	325	375	420	**180**	220	255	285	**135**	170	195	220
	100x5	**415**	510	585	655	**300**	365	420	470	**200**	245	285	315	**155**	190	220	245
	125x5	**465**	570	655	735	**335**	405	470	525	**225**	275	315	355	**155**	210	245	275

• values marked in bold refer to the MINIMUM spacing between phases
** value less than 100 mm*

Ω TOP JUNIOR - Compact bar support



TECHNICAL FEATURES

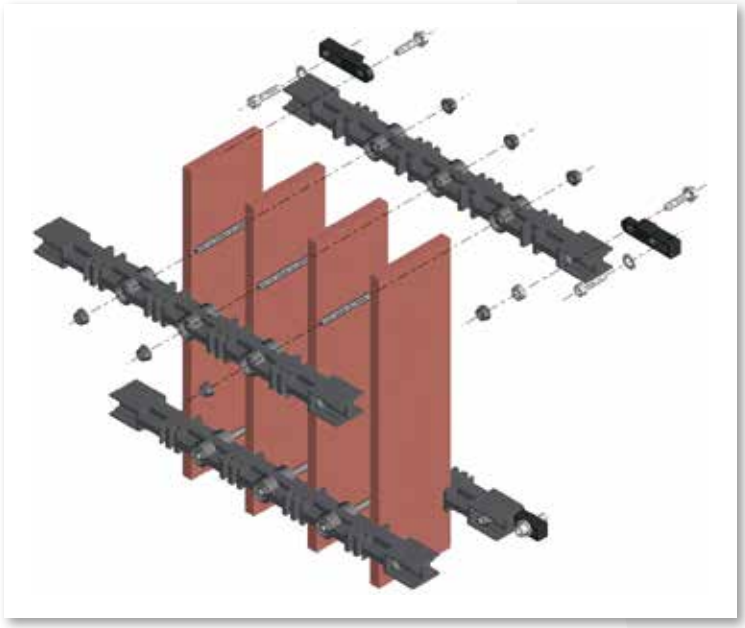
High versatility
Space between phases 70 mm
High resistance to short-circuit
Single reference for use with 5 to 10 mm thick bars
Fitting directly on 400 mm deep panel boards
Adjustable fasteners supplied

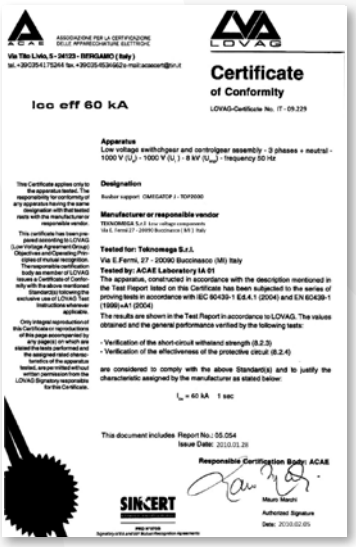
Made of:

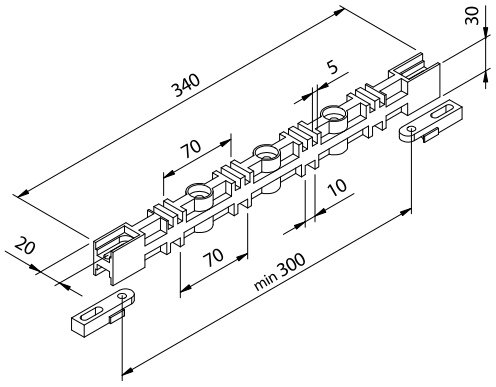
Polyamide 6/6 reinforced with 30% fiberglass
Self-extinguishing UL 94-V0
Colour: black
Halogen Free

Certifications:

Compliant with standard IEC 61439-2
TESTED in Laboratory ACAE IA01
CERTIFICATE ACAE-LOVAG No. IT 10.004




Certificate
of Conformity
Icc eff 60 kA



Code	Reference		Type		No. tie-rods	No. bars	s (mm)	H min ÷ max (mm)
TOP2000	TOP J 5-10	2	T + N	2 / 5	3	1-2	5	30 ÷ 80
				1 / 10		1	10	30 ÷ 80

Distance between supports depending on Icc (short-circuit current)

Icc pk = Short-circuit current peak value expressed in kA

Icc rms = Effective value of short-circuit current, duration equal to 1 second, expressed in kA

Ω TOP JUNIOR 1 / 10 >> 1 BAR PER PHASE

Icc pk (kA)		53	74	110	132
Icc rms (kA)		25	35	50	60
Spacing between phases (mm)		70			
BAR CROSS-SECTION H x s	30x10	540	385	260	200
	40x10	620	445	285	200
	50x10	695	495	285	200
	60x10	760	545	285	200
	80x10	870	630	285	200

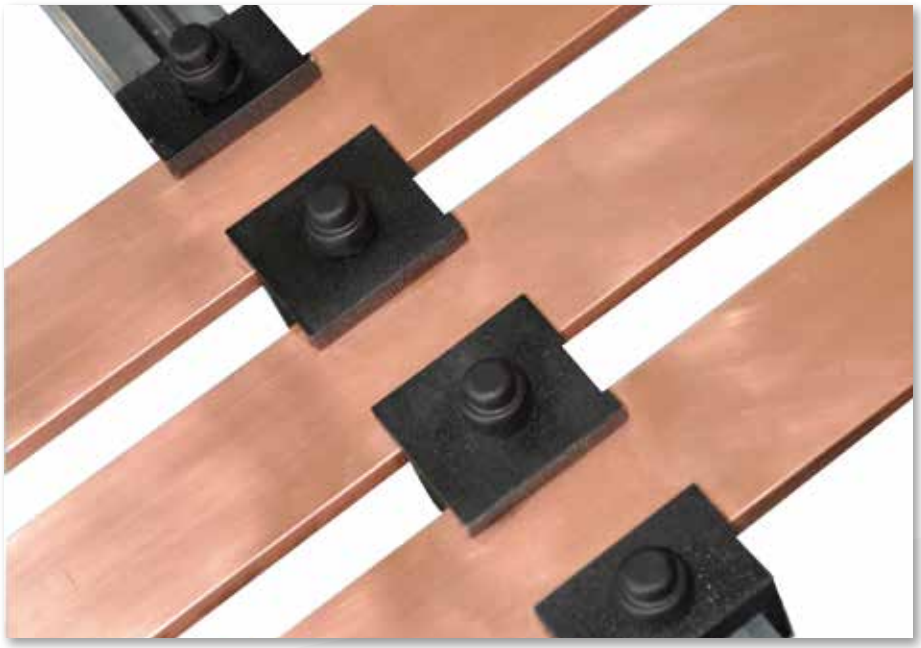
ΩTOP JUNIOR 2 / 5 >> 1 BAR PER PHASE

Icc pk (kA)		53	74	110	132
Icc rms (kA)		25	35	50	60
Spacing between phases (mm)		70			
BAR CROSS-SECTION H x s	30x5	270	190	130	105
	40x5	310	220	150	125
	50x5	350	250	165	129
	60x5	380	275	180	129
	80x5	390	310	210	129

Ω TOP JUNIOR 2 / 5 >> 2 BARS PER PHASE

Icc pk (kA)		53	74	110	132
Icc rms (kA)		25	35	50	60
Spacing between phases (mm)		70			
BAR CROSS-SECTION H x s	30x5	380	270	180	150
	40x5	440	310	210	165
	50x5	490	350	235	165
	60x5	540	385	240	165
	80x5	620	445	240	165

Ω **FLAT** - Bar support



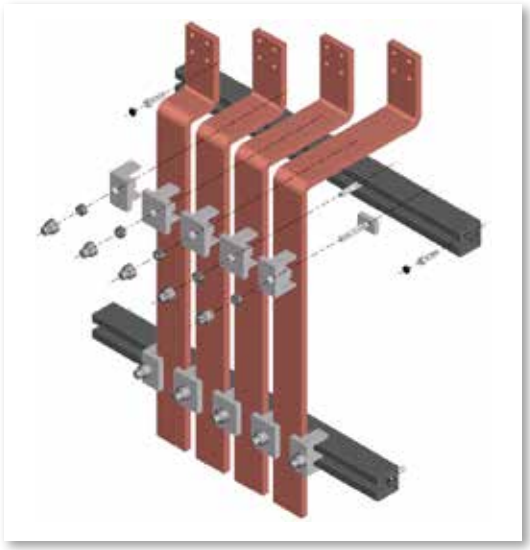
The Ω FLAT bar support is a **UNIVERSAL, QUICK and COMPETITIVE** solution for all flat supporting requirements, of copper or aluminium bars.
It is mainly made of two elements:
1) supporting and fastening rail
2) set of blocks and screws to tighten the bars

The Ω FLAT bar support can also be used as an anchoring system for flexible insulated bars COFLEX and insulated braids J-LINK

TECHNICAL FEATURES

Universal

Distance between adjustable phases
Bar thickness 5 - 10 mm
High resistance to short-circuits
Air distance between two phases:
20 mm with "T" blocks
40 mm with "L" blocks ", incrementable by spacing the blocks



Insulating blocks:

In 6/6 polyamide reinforced with 30% fiberglass
Self-extinguishing UL 94-V0
Black colour
Halogen Free

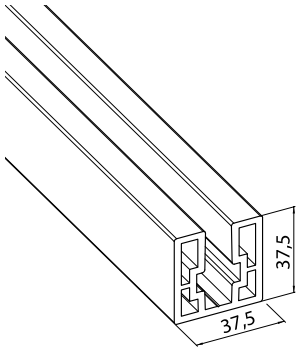
Support Rail:

Made in extruded PVC
Self-extinguishing UL 94-V0
Black colour

Certifications:

Compliant with standard IEC 61439-2
TESTED in Laboratory ACAE IA01
CERTIFICATE ACAE-LOVAG No. IT 10.003

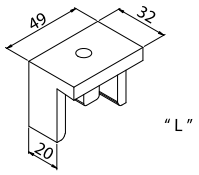

Certificate
of Conformity
Icc eff. 40 kA

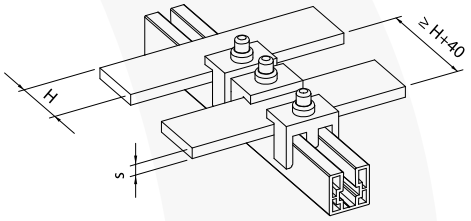


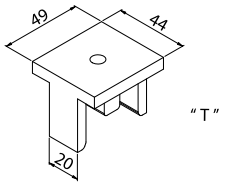
SUPPORT RAIL

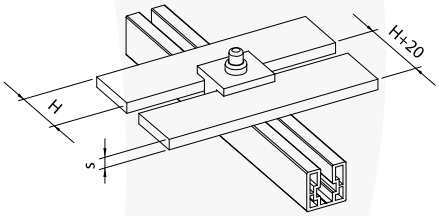
Code	Reference		Weight (Kg)
FLT1000	FLT PR 2000	2	1,90

- One single code for all configurations
- Made in extruded PVC
- 2 meters long
- Working temperature up to 85°C
- Quick fitting to the panel board structure by means of hex socket head cap screws M6x25, to be used after punching the bottom guiding rail









INSULATING BLOCKS AND SCREWS

Code	Reference		Phases	No. "L" blocks	No. "T" blocks	s min-max (mm)	H min-max (mm)	Spacing between phases (mm)
FLT1015	FLT LT-T	1	T	2	2	5-10	30-100	H + 20
FLT1020	FLT LT-TN	1	T+N	2	3			
FLT1025	FLT LL-T	1	T	6	-			≥ H + 40
FLT1030	FLT LL-TN	1	T+N	8	-			

The set consists of insulating blocks, hammer head screws M8x45, hexagonal nuts M8 and insulating nut caps.
Complete with hex socket head cap screws M6x25 to fasten rail FLT1000 and plastic caps to insulate the head screws M6x25.

Example:
to make a bar support configuration
3-pole + Neutral (Phases=T+N) at **MINIMUN** distance between phases (=H+20 mm)
Select: Support Rail **FLT1000**
Insulating Blocks and Screws **FLT1020**

Distance between supports depending on Icc (short-circuit current)

Icc pk =Short-circuit current peak value expressed in kA
Icc rms = Effective value of short-circuit current, duration equal to 1 second, expressed in kA

CONFIGURATIONS USING FLT1015 - FLT1020

Icc pk (kA)		53						74						84					
Icc rms (kA)		25						35						40					
Spacing between phases (mm)		50	60	70	80	100	120	50	60	70	80	100	120	50	60	70	80	100	120
BAR WIDTH H (mm)	30	**240**	-	-	-	-	-	**120**	-	-	-	-	-	**95**	-	-	-	-	-
	40	-	**290**	-	-	-	-	-	**150**	-	-	-	-	-	**115**	-	-	-	-
	50	-	-	**335**	-	-	-	-	-	**170**	-	-	-	-	-	**135**	-	-	-
	60	-	-	-	**385**	-	-	-	-	-	**195**	-	-	-	-	-	**150**	-	-
	80	-	-	-	-	**480**	-	-	-	-	-	**245**	-	-	-	-	-	**190**	-
	100	-	-	-	-	-	**575**	-	-	-	-	-	**295**	-	-	-	-	-	**230**

CONFIGURATIONS USING FLT1025 - FLT1030

Icc pk (kA)		53							74							84						
Icc rms (kA)		25							35							40						
Spacing between phases (mm)		70	80	90	100	120	140	160	70	80	90	100	120	140	160	70	80	90	100	120	140	160
BAR WIDTH H (mm)	30	**335**	385	430	480	575	675	770	**170**	195	220	245	295	345	390	**135**	150	170	190	230	265	305
	40	-	**385**	430	480	575	675	770	-	**195**	220	245	295	345	390	-	**150**	170	190	230	265	305
	50	-	-	**430**	480	575	675	770	-	-	**220**	245	295	345	390	-	-	**170**	190	230	265	305
	60	-	-	-	**480**	575	675	770	-	-	-	**245**	295	345	390	-	-	-	**190**	230	265	305
	80	-	-	-	-	**575**	675	770	-	-	-	-	**295**	345	390	-	-	-	-	**230**	265	305
	100	-	-	-	-	-	**675**	770	-	-	-	-	-	**345**	390	-	-	-	-	-	**265**	305

NOTE:

- = not possible configuration

Values marked in bold refer to the MINIMUM spacing between phases

For configurations other than the indicated ones: please contact our technical office

The "stand off" insulator is used as an insulating support for active conductors to guarantee excellent electrical insulation capability; it can be used as a support for electrical devices, giving high mechanical resistance values, as well as a spacing and/or stiffening element of a system made of conductor bars (copper and/or aluminium).

The various heights, widths and sizes of the threaded inserts make it possible to select the most suitable reference for the specific installation.

The **TEKNOMEGA** range offers two product types, both with high electrical insulation and mechanical resistance characteristics, obtained using different production processes and materials.

Ω COMPRHEX: RED INSULATORS and SPACING COLUMNS

made of polyester reinforced with fiberglass, molded by compression.

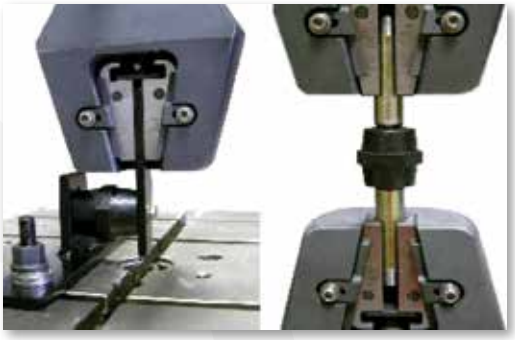
Ω ISO: BLACK INSULATORS and SPACING COLUMNS

made of polyamide reinforced with fiberglass, molded by injection.

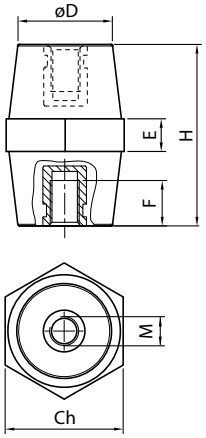
BOTH ranges of **TEKNOMEGA INSULATOR** have passed severe **TESTS** to check their mechanical and electrical resistance.

The values obtained during the tests are indicated in the relevant technical tables.

The tests were carried out in compliance with standards EN 60664-1 and EN 61439-1



Ω COMPRHEX - Insulators in polyester



TECHNICAL FEATURES

Insulation:
Thermosetting Polyester reinforced with 20% fiberglass
Self-extinguishing: V0-UL94
Colour: Red RAL 3031

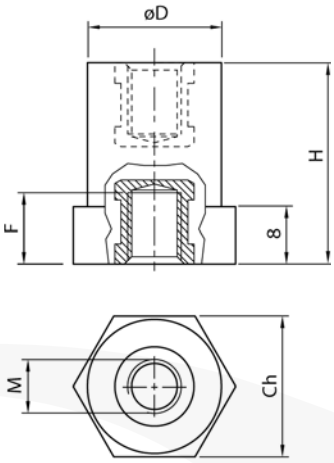
Threaded inserts:
Galvanized steel

Finished product:
Rated voltage: 1000 V AC/1500 V DC
Working temperature: -40 to 130 °C

R.T. = Tensile strength **R.C.** = Compressive strength **R.F.** = Flexural strength

Code	Reference		Weight (Kg)	H (mm)	Ch (mm)	D (mm)	E (mm)	M	F (mm)	(Nm)	R.T. (daN)	R.C. (daN)	R.F. (daN)
CPH2000	CPH 16M4	50	0,007	16	15	12	4	M4	5	3	150	1500	100
CPH2005	CPH 20M4	25	0,014	20	19	16	5	M4	6	3	200	2000	150
CPH2007	CPH 20M5	25	0,014					M5	6	6	200	2000	150
CPH2010	CPH 20M6	25	0,012					M6	6	8	240	2000	240
CPH2015	CPH 25M5	20	0,019	25	22	18	6	M5	9	6	240	2900	220
CPH2020	CPH 25M6	20	0,022					M6	9	10	340	2900	220
CPH2025	CPH 30M6	10	0,064	30	30	25	7	M6	9	10	580	5900	460
CPH2030	CPH 30M8	10	0,062					M8	9	25	580	5900	390
CPH2035	CPH 35M6	10	0,083	35	32	28	10	M6	9	10	710	9000	400
CPH2040	CPH 35M8	10	0,081					M8	10	25	710	9000	510
CPH2045	CPH 35M10	10	0,077					M10	10	50	710	9000	480
CPH2046	CPH 35M8W	10	0,109		41	35	10	M8	10	25	790	13000	670
CPH2048	CPH 35M10W	10	0,108					M10	10	50	790	13000	670
CPH2050	CPH 40M6	10	0,126	40	41	34	12	M6	10	10	900	12000	500
CPH2055	CPH 40M8	10	0,127					M8	10	25	900	12000	500
CPH2060	CPH 40M10	10	0,122					M10	10	50	800	12000	500
CPH2065	CPH 45M6	10	0,173	45	46	39	13	M6	15	10	900	14000	540
CPH2070	CPH 45M8	10	0,166					M8	15	25	900	14000	650
CPH2075	CPH 45M10	10	0,165					M10	15	50	1100	14000	650
CPH2080	CPH 50M6	10	0,178	50	46	37	10	M6	15	10	1100	12000	480
CPH2085	CPH 50M8	10	0,172					M8	15	25	1100	12000	550
CPH2090	CPH 50 M10	10	0,168					M10	20	50	1100	12000	550
CPH2093	CPH 50M12W	10	0,240		50	45	15	M12	15	85	1250	16000	720
CPH2095	CPH 60M8	4	0,330	60	60	49	15	M8	15	25	1400	18000	750
CPH2100	CPH 60M10	4	0,330					M10	15	50	1400	18000	750
CPH2101	CPH 70M10	4	0,409	70	60	52	14	M10	20	50	1500	17000	800
CPH2103	CPH 70M12	4	0,400					M12	20	85	1800	17000	800
CPH2105	CPH 75M12	10	0,299	75	50	38	16	M12	15	85	1400	12000	650
CPH2112	CPH 80M12	3	0,485	80	65	52	16	M12	20	85	1800	> 20000	1000
CPH2115	CPH 100M12	2	0,535	100	65	52	18	M12	25	85	2000	> 20000	900
CPH2117	CPH 100M16	2	0,520					M16	25	200	2000	> 20000	900

Threaded studs for insulators cf. page 91



TECHNICAL FEATURES

Insulation:
Thermosetting Polyester reinforced with 20% fiberglass
Self-extinguishing: V0-UL94
Colour: Red RAL 3031

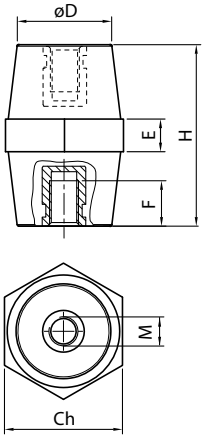
Threaded inserts:
Galvanized steel

Finished product:
Rated voltage: 1000 V AC/1500 V DC
Working temperature: -40 to 130 °C

R.T. = Tensile strength **R.C.** = Compressive strength **R.F.** = Flexural strength

Code	Reference		Weight (Kg)	Ch (mm)	D (mm)	H (mm)	M	F (mm)	(Nm)	R.T. (daN)	R.C. (daN)	R.F. (daN)
CPH2510	CLH 16M5-20	25	0,016	21	20	16	M5	4	6	200	2000	120
CPH2515	CLH 16M6-20	25	0,016				M6	4	6	200	2000	120
CPH2520	CLH 20M5-20	25	0,019			20	M5	6	6	280	2200	170
CPH2525	CLH 20M6-20	25	0,018				M6	6	8	280	2200	170
CPH2530	CLH 25M5-20	20	0,022			25	M5	6	6	300	2200	200
CPH2535	CLH 25M6-20	20	0,022				M6	6	8	300	2200	200
CPH2540	CLH 25M8-20	20	0,021				M8	6	25	300	2200	200
CPH2545	CLH 30M6-20	20	0,026			30	M6	8	10	340	2500	220
CPH2550	CLH 30M8-20	20	0,025				M8	8	25	340	2500	220
CPH2555	CLH 35M6-20	20	0,031			35	M6	8	10	340	2500	150
CPH2560	CLH 35M8-20	20	0,030				M8	8	25	340	2500	150
CPH2565	CLH 40M6-20	10	0,034			40	M6	10	10	370	2300	130
CPH2570	CLH 40M8-20	10	0,033				M8	10	25	370	2300	130
CPH2575	CLH 45M6-20	10	0,037			45	M6	10	10	370	2300	120
CPH2580	CLH 45M8-20	10	0,036				M8	10	25	370	2300	120
CPH2585	CLH 50M6-20	10	0,040			50	M6	10	10	370	2300	100
CPH2590	CLH 50M8-20	10	0,039				M8	10	25	370	2300	100
CPH2610	CLH 30M8-30	10	0,050	30	30	30	M8	9	25	600	4800	450
CPH2615	CLH 35M8-30	10	0,058			35	M8	9	25	600	5000	400
CPH2620	CLH 40M8-30	10	0,069			40	M8	9	25	650	5200	350
CPH2625	CLH 45M8-30	10	0,101			45	M8	16	25	700	5500	280
CPH2630	CLH 50M6-30	10	0,110			50	M6	16	10	700	5500	200
CPH2635	CLH 50M8-30	10	0,108				M8	16	25	800	5500	220
CPH2640	CLH 55M6-30	10	0,117			55	M6	16	10	800	5000	180
CPH2645	CLH 55M8-30	10	0,115				M8	16	25	800	5000	200
CPH2650	CLH 65M6-30	10	0,131			65	M6	16	10	800	4700	170
CPH2655	CLH 65M8-30	10	0,120				M8	16	25	700	4700	170
CPH2660	CLH 70M6-30	10	0,138			70	M6	16	10	700	4500	150
CPH2665	CLH 70M8-30	10	0,136				M8	16	25	700	4500	150

Ω ISO - Insulators in polyamide



file n° 300607

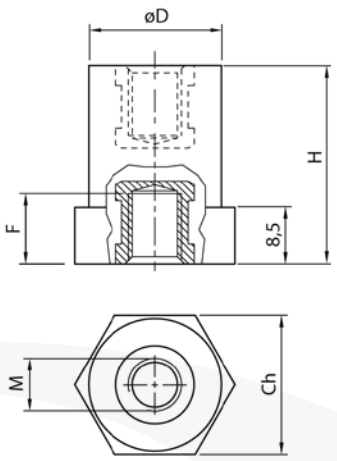
TECHNICAL FEATURES

Insulation:
Polyamide 66 reinforced
with 30% fiberglass
Halogen Free
Self-extinguishing: V0-UL94
Glow wire test: 960° C
Colour: Black
Threaded inserts:
Galvanized steel
Finished product:
Rated voltage: 1000 V AC/1500 V DC
Working temperature: -40÷130 °C

R.T. = Tensile strength **R.C.** = Compressive strength **R.F.** = Flexural strength

Code	Reference		Weight (Kg)	H (mm)	Ch (mm)	Tipo	D (mm)	E (mm)	M	F (mm)	(Nm)	R.T. (daN)	R.C. (daN)	R.F. (daN)
ISO2000	ISO 15M4 UL	50	0,005	15	14	⬡	12	3	M4	5	3	150	1500	100
ISO2005	ISO 20M4 UL	50	0,011	20	17	⬡	15	4	M4	5	3	200	2000	100
ISO2007	ISO 20M5 UL	50	0,011						M5	5	6	200	2000	150
ISO2010	ISO 20M6 UL	50	0,011						M6	5	8	250	2000	200
ISO2015	ISO 25M5 UL	50	0,013	25	20	⬡	15	5	M5	8	6	400	2500	200
ISO2020	ISO 25M6 UL	50	0,012						M6	8	10	400	2500	200
ISO2025	ISO 30M6 UL	50	0,038	30	30	⬡	26	6	M6	9	10	800	7500	500
ISO2030	ISO 30M8 UL	50	0,035						M8	9	25	800	7500	500
ISO2035	ISO 35M6 UL	50	0,049	35	32	⬡	28	7	M6	11	10	900	6500	570
ISO2040	ISO 35M8 UL	50	0,050						M8	11	25	900	6500	570
ISO2045	ISO 35M10 UL	50	0,058						M10	11	50	900	6500	570
ISO2046	ISO 35M8W UL	25	0,109		40	⬡	35	10	M8	11	25	1100	11000	650
ISO2048	ISO 35M10W UL	25	0,108						M10	11	50	1100	11000	650
ISO2050	ISO 40M6 UL	25	0,056	40	32	⬡	28	8	M6	11	10	1300	7500	500
ISO2055	ISO 40M8 UL	25	0,065						M8	11	25	1300	7500	500
ISO2060	ISO 40M10 UL	25	0,063						M10	11	50	1300	7500	500
ISO2061	ISO 40M8W UL	25	0,108		46	⬡	40	12	M8	11	25	1500	12000	600
ISO2063	ISO 40M10W UL	25	0,108						M10	11	50	1500	12000	600
ISO2065	ISO 45M6 UL	25	0,108	45	41	⬡	33	10	M6	15	10	1600	9000	650
ISO2070	ISO 45M8 UL	25	0,097						M8	15	25	1600	9000	650
ISO2075	ISO 45M10 UL	25	0,097						M10	15	50	1800	9000	700
ISO2076	ISO 45M8W UL	25	0,132		50	⬡	41	10,5	M8	15	25	2000	14000	800
ISO2078	ISO 45M10W UL	25	0,132						M10	15	50	2000	14000	800
ISO2080	ISO 50M6 UL	25	0,094	50	36	⬡	29	11	M6	15	10	1500	10000	400
ISO2085	ISO 50M8 UL	25	0,096						M8	15	25	1600	10000	450
ISO2090	ISO 50M10 UL	25	0,093						M10	15	50	1800	10000	650
ISO2091	ISO 50M10W UL	25	0,145		50	⬡	40	12	M10	15	50	2000	13000	750
ISO2093	ISO 50M12W UL	25	0,145						M12	15	85	2000	13000	850
ISO2094	ISO 55M10 UL	10	0,185	55	55	⬡	45	12	M10	15	50	2200	15000	1000
ISO2095	ISO 60M8 UL	10	0,194	60	54	⬡	42	12	M8	15	25	2200	15000	900
ISO2100	ISO 60M10 UL	10	0,190						M10	15	50	2200	15000	900
ISO2101	ISO 70M10 UL	10	0,335	70	65	⬡	50	13	M10	25	50	2200	18000	900
ISO2103	ISO 70M12 UL	10	0,331						M12	25	85	2500	18000	1200
ISO2105	ISO 75M12 UL	10	0,203	75	50	⬡	35	11,5	M12	25	85	2000	12000	750
ISO2110	ISO 75M16 UL	10	0,246						M16	25	200	2000	12000	750
ISO2112	ISO 80M12 UL	10	0,370	80	65	⬡	50	14	M12	25	85	2500	18000	1200
ISO2115	ISO 100M12 UL	10	0,458	100	65	⬡	50	21	M12	25	85	3000	20000	1000
ISO2117	ISO 100M16 UL	10	0,430						M16	25	200	3000	20000	1000

Threaded studs for insulators cf. page 91



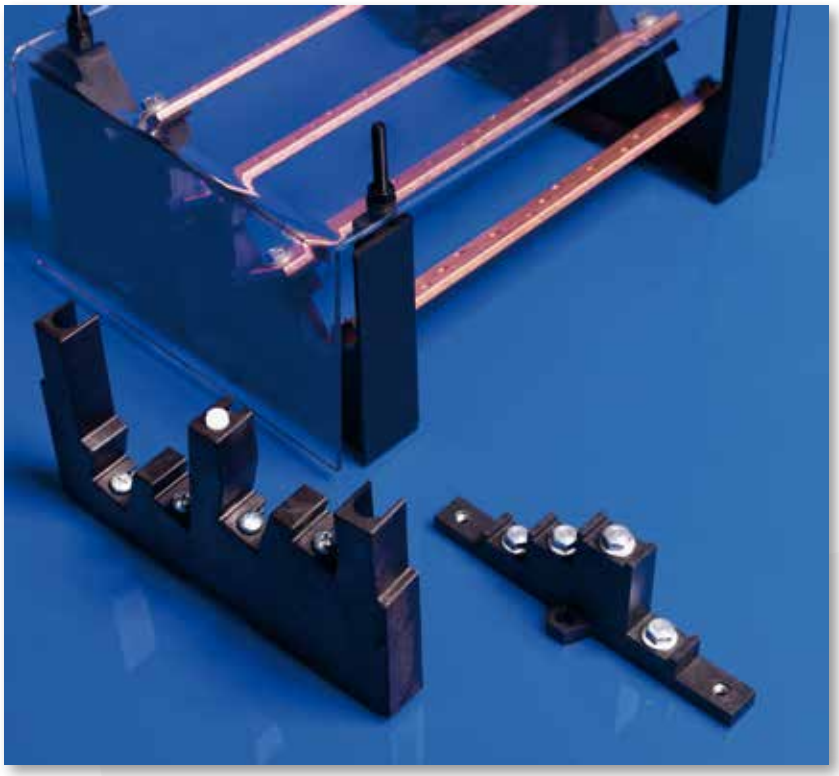
file n° 300607

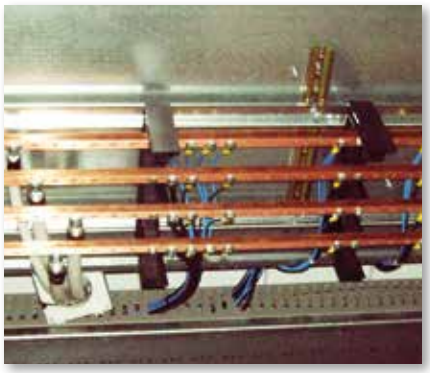
TECHNICAL FEATURES

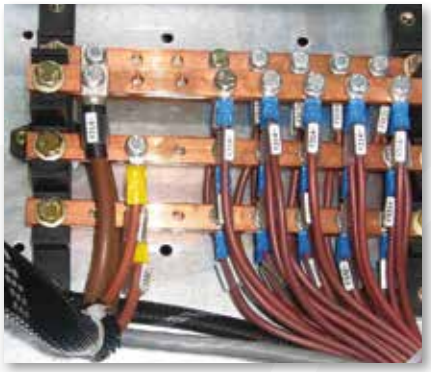
Insulation:
Polyamide 66 reinforced with 30% fiberglass
Halogen Free
Self-extinguishing: V0-UL94
Glow wire test: 960° C
Colour: Black
Threaded inserts:
Galvanized steel
Finished product:
Rated voltage: 1000 V AC/1500 V DC
Working temperature: -40÷130 °C

R.T. = Tensile strength **R.C.** = Compressive strength **R.F.** = Flexural strength

Code	Reference		Weight (Kg)	Ch (mm)	D (mm)	H (mm)	M	F (mm)	(Nm)	R.T. (daN)	R.C. (daN)	R.F. (daN)
ISO2120	CLN 16M4-20	50	0,014	21	20	16	M4	5	3	200	4200	100
ISO2125	CLN 16M5-20	50	0,014				M5	5	6	300	4200	150
ISO2130	CLN 16M6-20	50	0,014				M6	5	6	350	4200	150
ISO2135	CLN 20M5-20	50	0,015			20	M5	5	6	400	4500	200
ISO2140	CLN 20M6-20	50	0,015				M6	5	8	450	4500	280
ISO2145	CLN 25M4-20	50	0,016			25	M4	5	3	300	4700	150
ISO2150	CLN 25M5-20	50	0,017				M5	5	6	400	4700	200
ISO2155	CLN 25M6-20	50	0,018				M6	5	8	550	4700	350
ISO2160	CLN 25M8-20	50	0,018				M8	5	25	550	4700	350
ISO2165	CLN 30M5-20	50	0,027			30	M5	9	6	700	5000	370
ISO2170	CLN 30M6-20	50	0,026				M6	9	10	700	5000	370
ISO2175	CLN 30M8-20	50	0,024				M8	9	25	700	5000	370
ISO2180	CLN 35M5-20	50	0,030			35	M5	9	6	700	5000	350
ISO2185	CLN 35M6-20	50	0,029				M6	9	10	800	5000	350
ISO2190	CLN 35M8-20	50	0,026				M8	9	25	800	5000	350
ISO2195	CLN 40M5-20	50	0,030			40	M5	9	6	800	5000	300
ISO2200	CLN 40M6-20	50	0,030				M6	9	10	800	5000	300
ISO2205	CLN 40M8-20	50	0,028				M8	9	25	800	5000	300
ISO2210	CLN 45M5-20	25	0,033			45	M5	9	6	800	4700	260
ISO2215	CLN 45M6-20	25	0,031				M6	9	10	800	4700	260
ISO2220	CLN 45M8-20	25	0,030				M8	9	25	800	4700	260
ISO2225	CLN 50M5-20	25	0,032			50	M5	9	6	800	4500	220
ISO2230	CLN 50M6-20	25	0,034				M6	9	10	800	4500	220
ISO2235	CLN 50M8-20	25	0,033				M8	9	25	800	4500	220
ISO2240	CLN 30M6-30	50	0,039	30	30	30	M6	11	10	1000	7000	500
ISO2245	CLN 30M8-30	50	0,037				M8	11	25	1200	8000	550
ISO2250	CLN 35M6-30	50	0,041			35	M6	11	10	1100	7500	500
ISO2255	CLN 35M8-30	50	0,039				M8	11	25	1400	8500	550
ISO2256	CLN 40M6-30	25	0,061			40	M6	11	10	1100	7500	450
ISO2257	CLN 40M8-30	25	0,061				M8	11	25	1400	8500	480
ISO2260	CLN 45M6-30	25	0,082			45	M6	15	10	1200	9000	420
ISO2265	CLN 45M8-30	25	0,078				M8	15	25	1600	9000	420
ISO2266	CLN 50M6-30	25	0,087			50	M6	15	10	1200	8000	380
ISO2267	CLN 50M8-30	25	0,083				M8	15	25	1600	8000	380
ISO2270	CLN 55M6-30	25	0,094			55	M6	15	10	1100	7500	350
ISO2275	CLN 55M8-30	25	0,091				M8	15	25	1300	7500	350
ISO2280	CLN 65M6-30	25	0,104			65	M6	15	10	950	7000	300
ISO2285	CLN 65M8-30	25	0,104				M8	15	25	950	7000	300
ISO2290	CLN 70M6-30	25	0,109			70	M6	15	10	900	6500	280
ISO2295	CLN 70M8-30	25	0,098				M8	15	25	900	6500	280







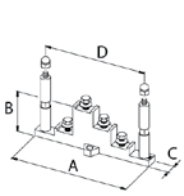
TECHNICAL FEATURES

Polyamide 66 reinforced with 30% fiberglass
Self-extinguishing UL 94-V0
Working temperature: -40°C to + 130°C
Continuous working temperature: +125°C
Softening temperature: +250°C
Glow wire test: 960°C
Black colour

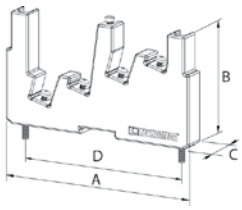
M6 screws for bar fastening included for PSP1000 and PSP1005

Protection screen fastening kit included for PSP1000 (cf. codeDZP2000) and PSP1005

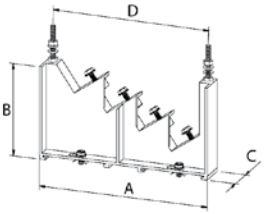
Direct fastening on DIN rail included for PSP1002



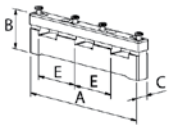
PSP 250



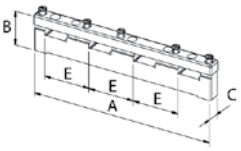
PSP 250 HP



PSP 400



PSP 630T



PSP 630TN

REPARTITION SUPPORTS

Code	Reference		Type	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
PSP1000	PSP 250	8	T+N	150	54	15	130	-
PSP1002	PSP 250 HP	1	T+N	190	104,5	20	162,5	-
PSP1005	PSP 400	2	T+N	216	117	34	200	-
PSP1010	PSP 630T	1	T	180	55	18	-	60
PSP1020	PSP 630TN	1	T+N	240	55	18	-	60

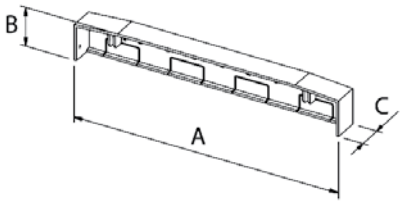
Distance between supports depending on Icc (short-circuit current)

Icc pk =Short-circuit current peak value expressed in kA
Icc rms = Effective value of short-circuit current, duration equal to 1 second, expressed in kA

Code	Bar cross-section	Icc pk (kA)	11,9	13,6	24	30	48,3
		Icc rms (kA)	7	8	12	15	23
		In (A)	Distance (mm)				
PSP1000	15x5	160	560	450	250	150	-
	20x5	250	640	520	260	150	-
PSP1002	15x5	160	630	550	320	210	-
	20x5	250	730	630	320	210	-
PSP1005	15x5	160	680	550	310	250	100
	20x5	250	780	640	360	260	100
	32x5	400	980	800	410	260	100
	20x10	500	980	980	410	260	100
	30x10	630	980	980	410	260	100

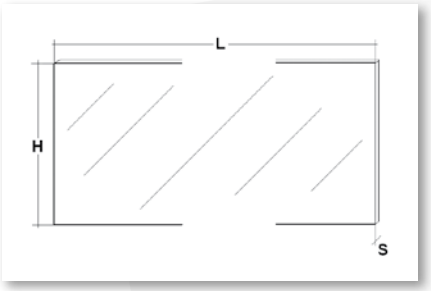
Code	Bar cross-section	Icc pk (kA)	30	34	44,1	50,4	54,6	60,9	75,6
		Icc rms (kA)	15	17	21	24	26	29	36
		In (A)	Distance (mm)						
PSP1010 PSP1020	20x5	250	600		400		200*		
	20x10	500		600		400		200*	
	30x5	400			600			400	200*
	30x10	630			600			400	200

*Icc rms = Effective value of short-circuit current, duration equal to 0.4 seconds, expressed in kA



PROTECTION CAPS

Code	Reference		Type	A (mm)	B (mm)	C (mm)
PSP1015	PSP PRO 630T	1	for support PSP1010	185	36	23
PSP1025	PSP PRO 630TN	1	for support PSP1020	245	36	23

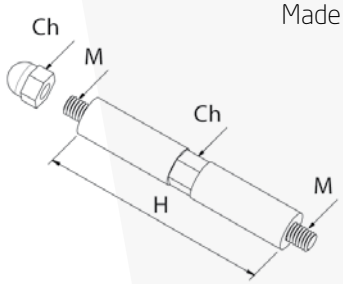


Made in PETG (polyethylene terephthalate)

COLD BENDABLE PROTECTION SCREEN

Code	Reference		Weight (kg)	H (mm)	L (mm)	S (mm)
SCH1000	SCH 1000x2000x3	1	7,00	1000	2000	3
SCH1005	SCH 1000x215x3	5	0,75	1000	215	3
SCH1010	SCH 1000x150x3	5	0,53	1000	150	3

Usable at 1000V AC / 1500V DC voltage

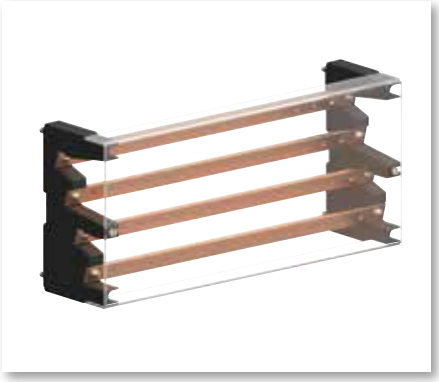


Made of Polyamide 6/6 with fiberglass, black colour

The KIT is made of:
4 qty male/male threaded spacers M6
4 qty female threaded caps M6

PLASTIC SPACER SUPPORT FOR PROTECTION SCREEN

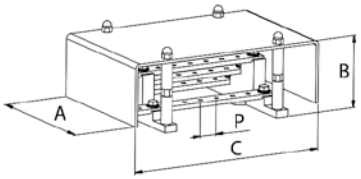
Code	Reference		H (mm)	M	Ch (mm)
DZP2000	DZP KIT	10	70	M6	10



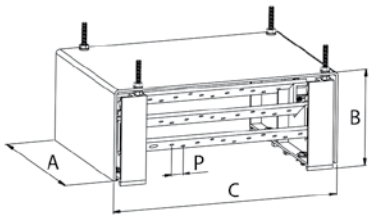
Repartition supports in KIT form include all that is needed to make the distribution unit.

The KIT is made of:

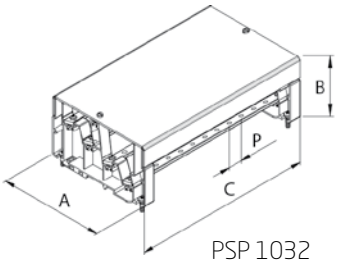
- Copper bars (cross-section, length and nr. of holes as per below table)
- Distribution unit supports
- Support spacers for the protection screen
- Protection screen cut, bent and punched in the suitable dimensions



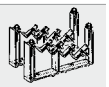
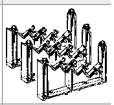
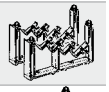
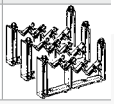
PS P1035



PS P1040



PSP 1032

Code	Reference		In (A)	Icc rms (kA)	Bars cross-section	A	B	C	P	Number of		Type of support	No. supports	
						(mm)				inputs	outputs			
PSP1030	PSP 160K-23	1	160	15	15 x 5	150	81	230	20	1 x Ø 8,5	6 x M6	PSP1000	2	
PSP1032	PSP 160K-32	1	160	10	15 x 5	190	108	320	25	1 x Ø 8,5	10 x M6	PSP1002	2	
PSP1035	PSP 250K-23	1	250	15	20 x 5	150	81	230	20	1 x Ø 8,5	6 x M6	PSP1000	2	
PSP1036	PSP 250K-31	1	250	12	20 x 5	150	81	310	20	1 x Ø 8,5	10 x M6	PSP1000	2	
PSP1038	PSP 250K-42	1	250	10	20 x 5	190	108	420	25	1 x Ø 8,5	14 x M6	PSP1002	2	
PSP1040	PSP 400K-30	1	400	15	32 x 5	216	127	305	17,5-W	1 x Ø 10,5	11 x M6	PSP1005	2	
PSP1050	PSP 400K-48	1	400	16	32 x 5	216	127	480	17,5-W	1 x Ø 10,5	20 x M6	PSP1005	3	
PSP1065	PSP 630K-45	1	630	12	30 x 10	216	127	455	25	1 x Ø 10,5	14 x M8	PSP1005	2	
PSP1070	PSP 630K-55	1	630	15	30 x 10	216	127	555	25	1 x Ø 10,5	17 x M8	PSP1005	3	

The power inputs of distribution units in KIT form can be indifferently placed right or left.

Ω **BLOCK** - Distribution Blocks

The TEKNOMEGA Ω BLOCK is a complete range and includes terminal board distribution units, both single block and compact. This allows making distribution units from 40 A up to 400 A.

Applications for their use include switchboards, automation and command panel boards and distribution panel boards.

Terminal board distribution blocks: from 40 A to 160 A, 2 and 4 pole, for use in applications where the effective short-circuit current value (**Icc eff.**), is kept within 10 kA. Equipped with a transparent protection screen between phases, at the front and bottom of the distribution unit, removable to tighten connections.

Recently introduced the **4-Pole Modular Up & Down Distribution Block** from **160 A**, these allow the user to simply manage situations where the installer must satisfy articulated mounting needs contained in the dimensions, for example when there are too many wiring inputs and outputs to be placed on one side of the block.

The **new 4-Pole Side Input Distribution Block** from **160 A** makes it possible to connect directly to the switch.

Compact distribution blocks: from 80 A to 400 A, 1 and 3 pole, to use in applications where the effective short-circuit current value (**Icc eff**) is higher than 10 kA. Registered as per UL standard. Wiring is made easy by guided accesses. High electrical insulation value. No protection to remove to tighten the connections.

Quick distribution unit blocks: 76 A, 1 and 2 pole. Quick indirect spring hook-up outputs, efficient and safe.

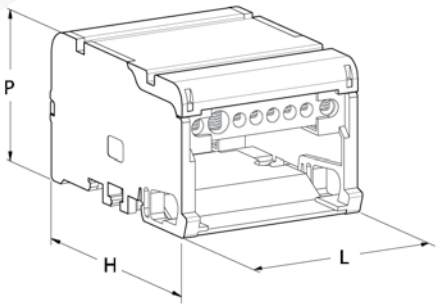
All the Ω BLOCK distribution range can be fit on DIN rail (omega rail) and/or bottom plate using the specific provisions.

RPB1005

RPQ1000

RPQ1025

TECHNICAL FEATURES



Brass conductors
Galvanized steel screws included
Insulation between phases
Front removable protection screen
(except RPQ1025)
Self-extinguishing insulating structure : UL 94-V0
Quick hook-up on DIN rails
Compliant with standard IEC 947-7-1
Low voltage auxiliary equipment
terminal boards for copper conductors

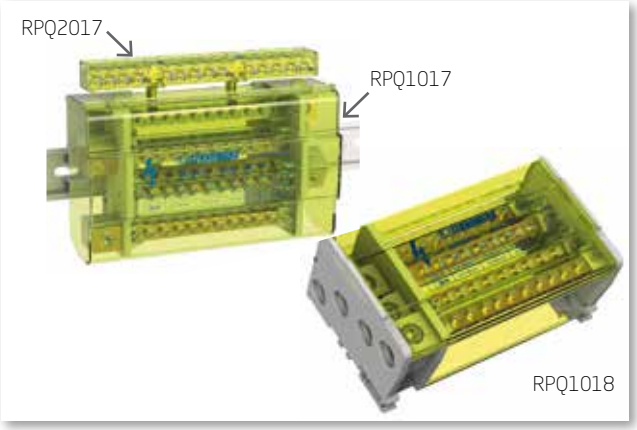
2 POLES 40-80-100/125 A

Code	Reference		L (mm)	H (mm)	P (mm)	Fix. hole space (mm)
RPB0990	RPB 40-08	1	66	46	51	45
RPB0995	RPB 80-07	1	66	46	51	45
RPB1000	RPB 125-06	1	66	46	51	45
RPB1005	RPB 125-14	1	132	46	51	112

4 POLES 40-80-100/125 A

Code	Reference		L (mm)	H (mm)	P (mm)	Fix. hole space (mm)
RPQ0980	RPQ 40-08	1	66	84	50	45
RPQ0985	RPQ 40-14	1	100	84	50	80
RPQ0990	RPQ 80-07	1	66	84	50	45
RPQ0995	RPQ 80-12	1	100	84	50	80
RPQ1000	RPQ 125-06	1	66	84	50	45
RPQ1005	RPQ 125-10	1	100	84	50	80
RPQ1010	RPQ 125-14	1	132	84	50	112
RPQ1025	RPQ C-125	1	98	75	49	55

RPQ1025: Compact 4 pole distribution unit 125 A
7 outputs per phase
10 outputs for neutral
easy wiring
IP20



TECHNICAL FEATURES

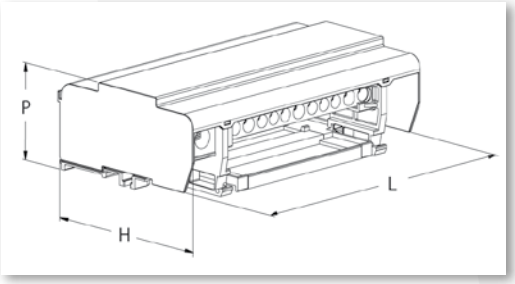
Brass conductors
Galvanized steel screws included
Insulation between phases
Front removable protection screen
Self-extinguishing insulating structure : UL 94-V0
Quick hook-up on DIN rails
Compliant with standards IEC 947-7-1

ADVANTAGES

Separate inputs
Forged conductors
Easy wiring: RPQ1015, RPQ1018
Modular depth: RPQ1016, RPQ1017

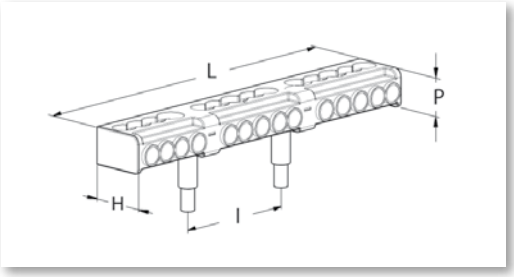
RPQ1016: Version Up & Down: connection of 2 phases on each side

RPQ1018: Version Side Input: inputs orthogonal to outputs



4 POLE 160 A

Code	Reference		L (mm)	H (mm)	P (mm)	Fix. hole space
RPQ1015	RPQ 160-11	1	168	85	70	150
RPQ1016	RPQ 160-11-U&D	1	176	105	55	163
RPQ1017	RPQ 160-11 MS	1	176	105	55	163
RPQ1018	RPQ 160-11 SI	1	154	95	67	135



TECHNICAL FEATURES

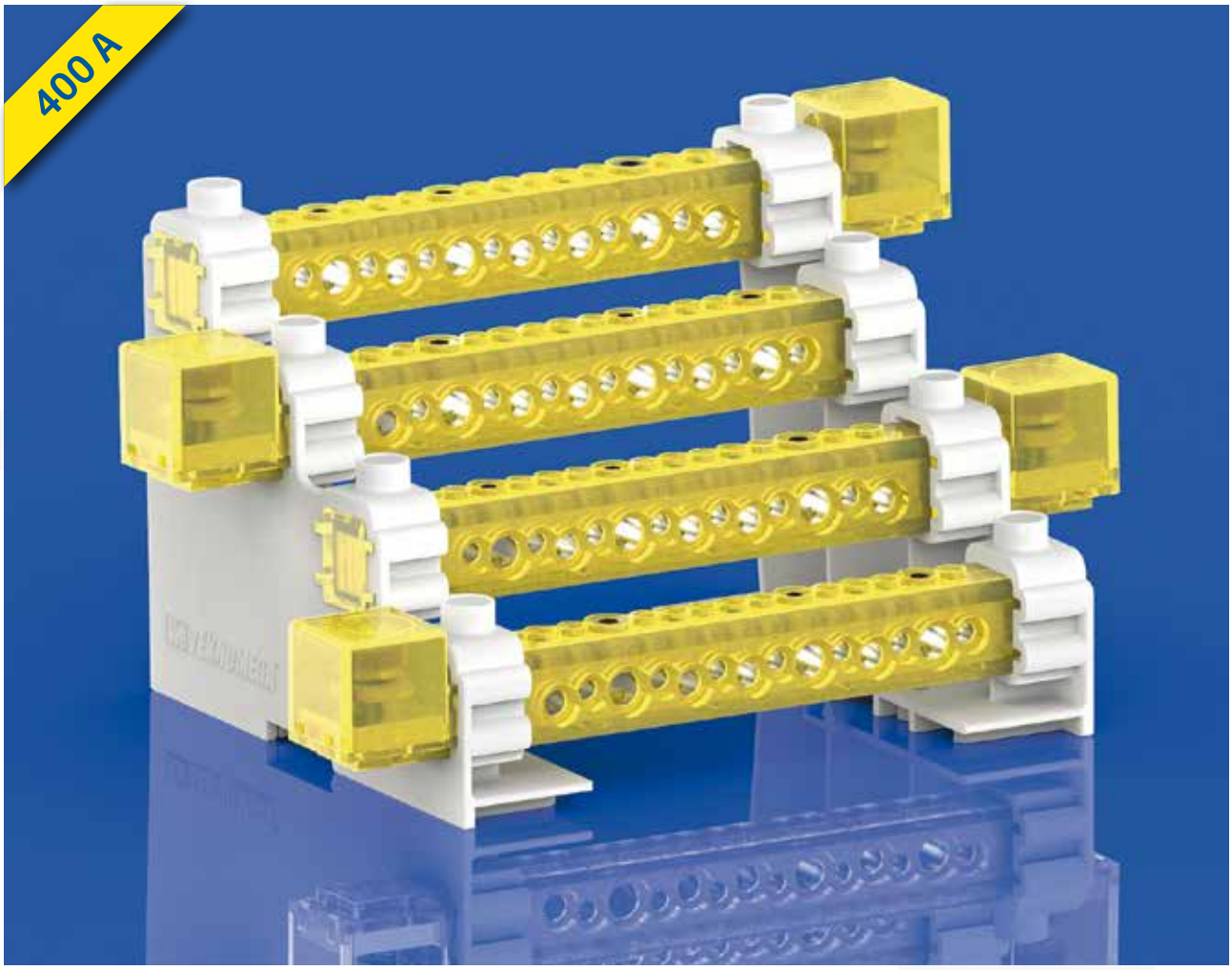
Designed for RPQ1017
Brass conductors
Galvanized steel screws included
Self-extinguishing insulating structure: UL 94-V0

ADVANTAGES

Improved wiring capacity
Strong mechanical assembly
Direct electrical connection

NEUTRAL BAR

Code	Reference		L (mm)	H (mm)	P (mm)	I (mm)
RPQ2017	RPN 160-14	1	161	27	17	57



TECHNICAL FEATURES

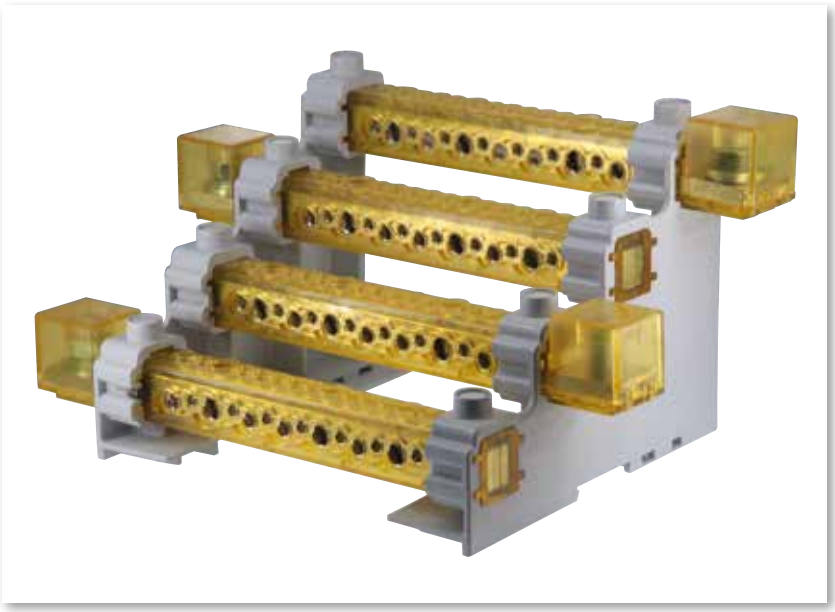
The distribution block 400 A, RPQ 1050 is made up of:

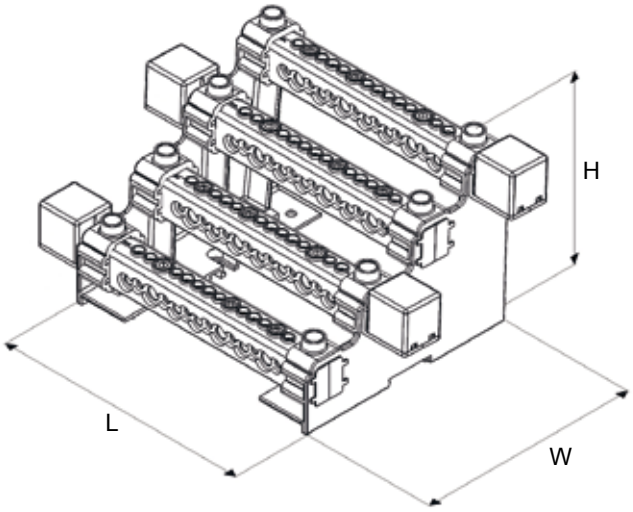
- Phase bars in tinned copper with steel screws suitable for aluminium and copper cables
- Insulation between phases by a solid thermoplastic structure and a transparent protective cover
- **Self-extinguishing insulating structure: UL 94-V0**

Compliant with standards EN 60947-7-1
Index IP10 which guarantees safety in accidental contact

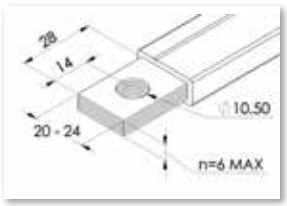
ADVANTAGES

Easy connection: inputs are separated from the outputs
Input connections for: COFLEX, COFLEX PLUS and cable lugs
Cable wiring on both sides with or without terminals
Simple fixing: easy installation on DIN rails or on panels with screws
Easy inspection of the wiring cable and verification of the connections

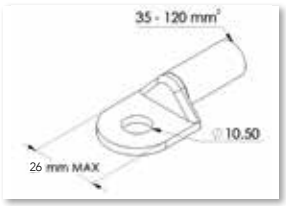




INPUT CONNECTIONS



(*)COFLEX



(*)Cable lugs

4 POLE- 400 A

Code	Reference		L (mm)	H (mm)	W (mm)	Weight (Kg)
RPQ1050	RPQ 400 -14	1	194 (264 with terminals)	141	171	1,9

TECHNICAL DATA

Code	Type	In (A)	IN/OUT	Stripped wire (mm²)	Wire with ferrule (mm²)	Nr	ø (mm)	(Nm)	Icw (kA)	Ipk (kA)	Ui (V)
RPQ1050	4 POLE - 14 OUTPUTS	400	IN →	35 ÷ 120 (*)	35÷ 120 (*)	1	na	20	30	53	1000
			← OUT	10 ÷ 50	10 ÷ 35	1	9,5	8,5			
			← OUT	10 ÷ 35	10 ÷ 25	2	9	6,4			
			← OUT	6 ÷ 25	6 ÷ 16	4	7	3,5			
			← OUT	2,5 ÷ 16	2,5 ÷ 10	7	5,5	2,7			

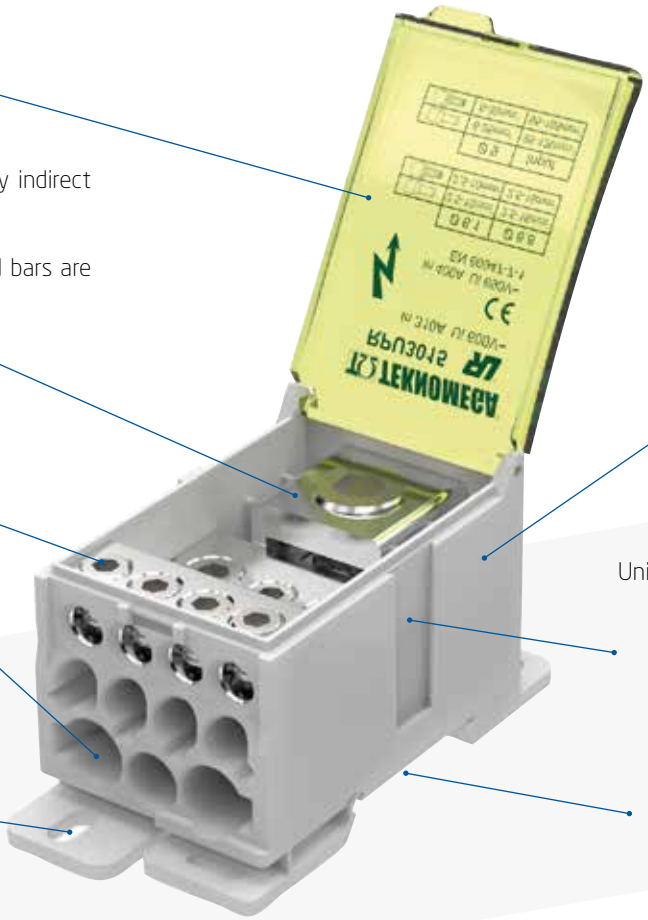
(*) Possibility to use cable lugs or COFLEX (recommended CFX size: 4x20x1 and 3x24x1)

Icc pk = Short-circuit current peak value expressed in kA
Icw = Effective value of short-circuit current, duration equal to 1 second, expressed in kA as per standard EN 60947-7-1
Ui = Nominal insulation voltage

TECHNICAL DATA

Code	Type	In (A)	IN/OUT	Stripped wire (mm²)	Wire with ferrule (mm²)	Nr	ø (mm)	(Nm)	Icw (kA)	Ipk (kA)	Ui (V)
RPB0990	2 POLE 8 outputs	40	IN →	2,5 ÷ 6	1,5 ÷ 6	1	5,5	2 - 3	2,0	15	1000
			← OUT	2,5 ÷ 6	1,5 ÷ 6	1	5,5	2 - 3			
			← OUT	1,5 ÷ 4	1,5 ÷ 4	4	4	2 - 3			
			← OUT	1,5 ÷ 2,5	1,5 ÷ 2,5	3	3	2 - 3			
RPB0995	2 POLE 7 outputs	80	IN →	10 ÷ 25	6 ÷ 16	1	7,5	2 - 3	4,5	20	1000
			← OUT	1,5 ÷ 4	1,5 ÷ 4	5	4,5	2 - 3			
			← OUT	1,5 ÷ 4	1,5 ÷ 4	2	5	2 - 3			
RPQ0980	4 POLE 8 outputs	40	IN →	2,5 ÷ 6	1,5 ÷ 6	1	5,5	2 - 3	2,0	15	1000
			← OUT	2,5 ÷ 6	1,5 ÷ 6	1	5,5	2 - 3			
			← OUT	1,5 ÷ 4	1,5 ÷ 4	4	4	2 - 3			
			← OUT	1,5 ÷ 2,5	1,5 ÷ 2,5	3	3	2 - 3			
RPQ0985	4 POLE 14 outputs	40	IN →	2,5 ÷ 6	1,5 ÷ 6	1	5,5	2 - 3	2,0	15	1000
			← OUT	2,5 ÷ 6	1,5 ÷ 6	1	5,5	2 - 3			
			← OUT	1,5 ÷ 4	1,5 ÷ 4	7	4,0	2 - 3			
			← OUT	1,5 ÷ 2,5	1,5 ÷ 2,5	6	3	2 - 3			
RPQ0990	4 POLE 7 outputs	80	IN →	10 ÷ 25	6 ÷ 16	1	7,5	2 - 3	4,5	20	1000
			← OUT	1,5 ÷ 4	1,5 ÷ 4	5	4,5	2 - 3			
			← OUT	1,5 ÷ 4	1,5 ÷ 4	2	5	2 - 3			
RPQ0995	4 POLE 12 outputs	80	IN →	10 ÷ 25	6 ÷ 16	1	7,5	2 - 3	4,5	20	1000
			← OUT	10 ÷ 25	6 ÷ 16	1	7,5	2 - 3			
			← OUT	1,5 ÷ 4	1,5 ÷ 4	8	4,5	2 - 3			
			← OUT	1,5 ÷ 4	1,5 ÷ 4	2	5	2 - 3			
			← OUT	4 ÷ 10	2,5 ÷ 6	1	6	2 - 3			
RPB1000	2 POLE 6 outputs	125	IN →	10 ÷ 35	10 ÷ 25	1	9,0	2 - 3	4,2	20	1000
			← OUT	2,5 ÷ 6	1,5 ÷ 6	5	5,5	2 - 3			
			← OUT	10 ÷ 25	6 ÷16	1	7,5	2 - 3			
RPB1005	2 POLE 14 outputs	125	IN →	10 ÷ 35	10 ÷ 25	1	9,0	2 - 3	4,2	20	1000
			← OUT	10 ÷ 35	10 ÷ 25	1	9,0	2 - 3			
			← OUT	2,5 ÷ 6	1,5 ÷ 6	11	5,5	2 - 3			
			← OUT	10 ÷ 25	6 ÷16	2	7,5	2 - 3			
RPQ1000	4 POLE 6 outputs	125	IN →	10 ÷ 35	10 ÷ 25	1	9,0	2 - 3	4,2	18	1000
			← OUT	2,5 ÷ 6	1,5 ÷ 6	5	5,5	2 - 3			
			← OUT	10 ÷ 25	6 ÷16	1	7,5	2 - 3			
RPQ1005	4 POLE 10 outputs	125	IN →	10 ÷ 35	10 ÷ 25	1	9,0	2 - 3	4,2	18	1000
			← OUT	10 ÷ 35	10 ÷ 25	1	9,0	2 - 3			
			← OUT	10 ÷ 25	6 ÷16	2	7,5	2 - 3			
			← OUT	2,5 ÷ 6	1,5 ÷ 6	7	5,5	2 - 3			
RPQ1010	4 POLE 14 outputs	125	IN →	10 ÷ 35	10 ÷ 25	1	9,0	2 - 3	4,2	18	1000
			← OUT	10 ÷ 35	10 ÷ 25	1	9,0	2 - 3			
			← OUT	10 ÷ 25	6 ÷16	2	7,5	2 - 3			
			← OUT	2,5 ÷ 6	1,5 ÷ 6	11	5,5	2 - 3			
RPQ1015	4 POLE 11 outputs	160	IN →	10 ÷ 50	10 ÷ 50	1	11,5	8 -10	9	22	1000
			← OUT	10 ÷ 35	10 ÷ 25	3	8,5	2 - 3			
			← OUT	2,5 ÷ 16	1,5 ÷ 16	8	7	2 - 3			
RPQ1016 RPQ1017	4 POLE Modular 11 outputs	160	IN →	10 ÷ 50	10 ÷ 50	1	11,5	8 - 10	9	22	1000
			← OUT	10 ÷ 35	10 ÷ 16	3	8,5	2 -3			
			← OUT	2,5 ÷ 16	1,5 ÷ 16	8	7	2 -3			
RPQ2017	NEUTRAL 14 outputs	160	← OUT	10 ÷ 35	10 ÷ 16	4	8,5	2 -3	9	22	1000
			← OUT	2,5 ÷ 16	1,5 ÷ 16	10	7	2 -3			
RPQ1018	TÉTRAPOLAIRE Side Input 11 sorties	160	IN →	10 ÷ 50	10 ÷ 50	1	12	8 - 10	9	22	1000
			← OUT	10 ÷ 35	10 ÷ 25	3	8,5	2 - 3			
			← OUT	2,5 ÷ 16	1,5 ÷ 16	8	7	2 - 3			
RPQ1025	4 POLE Side Input 11 outputs	125	IN →	6 ÷ 35	6 ÷ 25	1	8,5	1,5	4,2	24	1000
			← OUT	1,5 ÷ 6	1,5 ÷ 6	5	5,5	0,8			
			← OUT	1,5 ÷ 16	1,5 ÷ 10	2	6	1,5			
RPQ1050	4 POLE Compact 7 outputs	400	IN →	35 ÷ 120 (*)	35 ÷ 120 (*)	1	na	20	30	53	1000
			← OUT	10 ÷ 50	10 ÷ 35	1	9,5	8,5			
			← OUT	10 ÷ 35	10 ÷ 25	2	9	6,4			
			← OUT	6 ÷ 25	6 ÷ 16	4	7	3,5			
			← OUT	2,5 ÷ 16	2,5 ÷ 10	7	5,5	2,7			

Icc pk = Short-circuit current peak value expressed in kA
Icw = Effective value of short-circuit current, duration equal to 1 second, expressed in kA as per standard IEC 947-7-1
Ui = Nominal insulation voltage



TECHNICAL FEATURES

Insulating body: PA 66 UL 94-V0, gray RAL 7035
Cover: PC UL 94-V0, transparent yellow
Conduction block:
- Tinned copper (RPU2995-RPU3000-RPU3005-RPU3015)
- Brass (RPU3010-RPT3000-RPT3005)

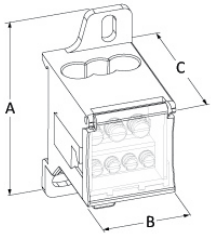
Clamps: Galvanized steel and Al alloy
Screws: Galvanized steel
Index Protection IP20
Compliant with standard EN 60947-7-1
UL 1059 standard recognized.

RANGE
1 pole: 80 - 125 -160 - 250 - 400 A
3 pole: 125 - 160 A

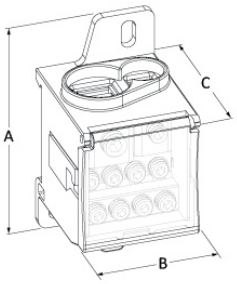
Direct connection with COFLEX BFX

Parallel interconnection (Unipolar blocks 125-160 A)

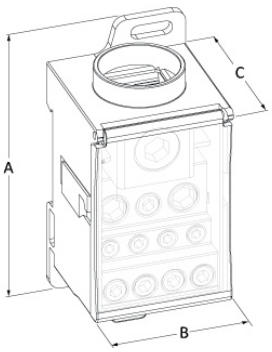
c UL us file n° 302208



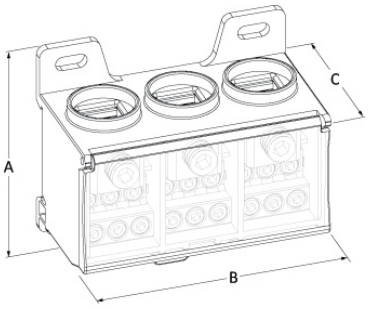
RPU 80-6 S



RPU 125-8 S
RPU 160-8 S



RPU 250-11 S
RPU 400-11 S



RPT 125-6 S
RPT 160-6 S

1 POLE

Code	Reference		In (A)		Weight (Kg)	A (mm)	B (mm)	C (mm)
			IEC/EN	UL				
RPU2995	RPU 80-6 S	1	**80**	85	0,071	66	30	46
RPU3000	RPU 125-8 S	1	**125**	130	0,162	75	40	48
RPU3005	RPU 160-8 S	1	**160**	175	0,166	75	40	48
RPU3010	RPU 250-11 S	1	**250**	230	0,331	96	47	50
RPU3015	RPU 400-11 S	1	**400**	310	0,358	96	47	50

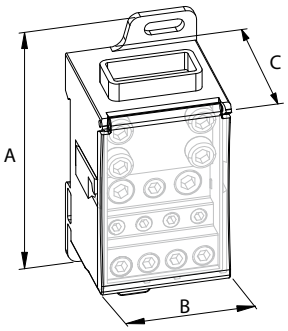
3 POLE

Code	Reference		In (A)		Weight (kg)	A (mm)	B (mm)	C (mm)
			IEC/EN	UL				
RPT3000	RPT 125-6 S	1	**125**	130	0,331	75	85	48
RPT3005	RPU 160-6 S	1	**160**	175	0,354	75	85	48

1 POLE

Code	Type	IN/OUT	COFLEX* L (mm)	Stripped wire (mm^2)	Wire with ferrule (mm^2)	Nr	Dim. (mm)	(Nm)	Icw (kA)	Ipk (kA)	Ui (V) IEC/EN
RPU2995	1 Pole 6 outputs 80 A	IN	-	6 ÷ 16	6 ÷ 16	1	ø 6,8	2	3,0	22	1000
		OUT	-	2,5 ÷ 16	2,5 ÷ 16	2	ø 6,8	2			
		OUT	-	2,5 ÷ 6	2,5 ÷ 6	4	ø 4,5	1			
RPU3000	1 Pole 8 outputs 125 A	IN	9	10 ÷ 35	10 ÷ 35	1	11x9	6	4,4	30	1000
		IN/OUT	-	6 ÷ 16	6 ÷ 16	1	8,7x6	3			
		OUT	-	2,5 ÷ 16	2,5 ÷ 16	8	ø 6,8	3			
RPU3005	1 Pole 8 outputs 160 A	IN	9-13	10 ÷ 70	10 ÷ 50	1	13,5x11,5	10	11	30	1000
		IN/OUT	-	6 ÷ 16	6 ÷ 16	1	8,7x6	3			
		OUT	-	2,5 ÷ 16	2,5 ÷ 16	8	ø 6,8	3			
RPU3010	1 Pole 11 outputs 250 A	IN	13-15,5	35 ÷ 120	35 ÷ 95	1	16x14	14	21	51	1000
		OUT	-	6 ÷ 35	6 ÷ 25	2	ø 9	10			
		OUT	-	2,5 ÷ 16	2,5 ÷ 16	5	ø 6,8	6			
		OUT	-	2,5 ÷ 10	2,5 ÷ 10	4	ø 6,1	3			
RPU3015	1 Pole 11 outputs 400 A	IN	15,5-20	95 ÷ 185	95 ÷ 120	1	20,5x16	25	25	66	1000
		OUT	-	6 ÷ 35	6 ÷ 25	2	ø 9	10			
		OUT	-	2,5 ÷ 16	2,5 ÷ 16	5	ø 6,8	6			
		OUT	-	2,5 ÷ 10	2,5 ÷ 10	4	ø 6,1	3			
RPT3000	3 Pole 6 outputs 125 A	IN	9	10 ÷ 35	10 ÷ 35	1	11x9	6	4,4	30	1000
		OUT	-	2,5 ÷ 16	2,5 ÷ 16	6	ø 6,8	3			
RPT3005	3 Pole 6 outputs 160 A	IN	9-13	10 ÷ 70	10 ÷ 50	1	13,5x11,5	10	11	30	1000
		OUT	-	2,5 ÷ 16	2,5 ÷ 16	6	ø 6,8	3			

Icc pk = Short-circuit current peak value expressed in kA
Icw = Effective value of short-circuit current, duration equal to 1 second, expressed in kA as per standard IEC 947-7-1
Ui = Nominal insulation voltage
* See COFLEX technical features



TECHNICAL FEATURES

nsulating body: PA 66 UL 94-V0, grey RAL 7035.
Cover: PC UL 94-V0, transparent yellow.
Conduction block: Tinned copper.
Clamp: Galvanized steel.
Screws: Galvanized steel.
Index Protection: IP20
Compliant with standard EN 60947-7-1.

Direct connection with COFLEX.

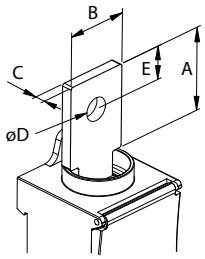
UNIPOLAR DISTRIBUTION BLOCK 500 A

Code	Reference		In (A)	Weight (kg)	A (mm)	B (mm)	C (mm)
RPU3020	RPU 500-11	1	**500**	0,450	96	47	50

TECHNICAL DATA

Code	Type	IN/OUT	COFLEX* L (mm)	Stripped wire (mm^2)	Wire with ferrule (mm^2)	Nr	Dim. (mm)	(Nm)	Icw (kA)	Ipk (kA)	Ui (V)
RPU3020	1 Pole 11 outputs 500 A	IN	15,5÷24	-	-	1	24x9	6	25	63	1000
		OUT	-	6 ÷ 35	6 ÷ 25	2	ø 9	10			
		OUT	-	2,5 ÷ 16	2,5 ÷ 16	5	ø 6,8	6			
		OUT	-	2,5 ÷ 10	2,5 ÷ 10	4	ø 6,1	3			

Icc pk = Short-circuit current peak value.
Icw = Effective value of short-circuit current, duration equal to 1 second, as per standard EN 60947-7-1.
Ui = Nominal insulation voltage.
* See COFLEX technical features.



RPU

TECHNICAL FEATURES

Material: Tinned copper
connection with flexible and solid copper bars
direct connection between distribution block and switch.

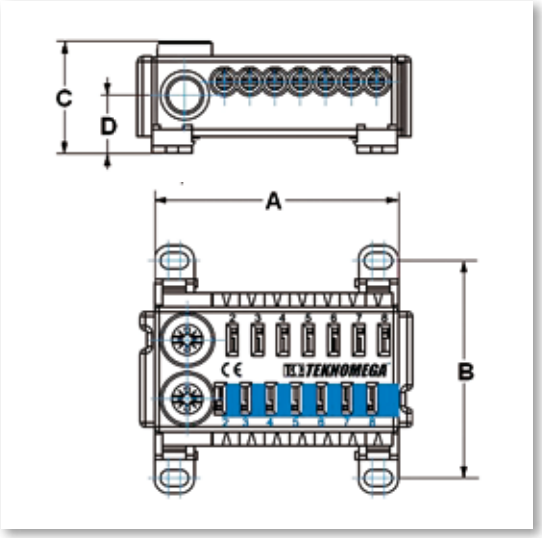
TERMINAL ENTRY FOR RPU

Code	Reference		In (A)	Weight (kg)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
RPC3000	RPC 125A	10	**125**	0,032	25	20	4	8,5	7,5
RPC3005	RPC 160A	10	**160**	0,042	30	20	4,5	8,5	9
RPC3010	RPC 250A	10	**250**	0,064	35	25	4,5	11	12
RPC3015	RPC 400A	10	**400**	0,098	40	30	5	11	16
RPC3020	RPC 500A	10	**500**	0,125	40	32	6	13	16

RPU5000

RPU5005

RPU5010



TECHNICAL FEATURES

Body made in PA 66
Self-extinguishing: UL 94-V0
Brass bars
Cable tightening:
- for inputs: screws, for output: spring steel system with copper contact
Protection grade IP20
Direct fitting on DIN rails or plate using 4 screws M4
Compliant with standards EN 60998 - EN 60999

ADVANTAGES

Extremely easy wiring
Output with spring tightening
Highly reliable and stable connection with:
- rigid stripped cable
- cable with ferrule

1 POLE

Code	Reference		In (A)	A (mm)	B (mm)	C (mm)	D (mm)
RPU5000	RPU 80-S-14-B	10	76	53	47	24	12
RPU5005	RPU 80-S-14-G	10	76	53	47	24	12

2 POLE

Code	Reference		In (A)	A (mm)	B (mm)	C (mm)	D (mm)
RPU5010	RPB 80-S-7-BG	10	76	53	47	24	12

TECHNICAL DATA

Code	IN/OUT	No.	Cable cross-section (mm^2)		(Nm)	Ui (V)
			stripped wire	with ferrule		
RPU5000	IN→	2	1,5 ÷ 25	1,5 ÷ 16	2,5	690
	← OUT	14	0,5 ÷ 4	0,5 ÷ 4	-	
RPU5005	IN →	2	1,5 ÷ 25	1,5 ÷ 16	2,5	690
	← OUT	14	0,5 ÷ 4	0,5 ÷ 4	-	
RPU5010	IN →	1	1,5 ÷ 25	1,5 ÷ 16	2,5	690
	← OUT	7	0,5 ÷ 4	0,5 ÷ 4	-	

NEW

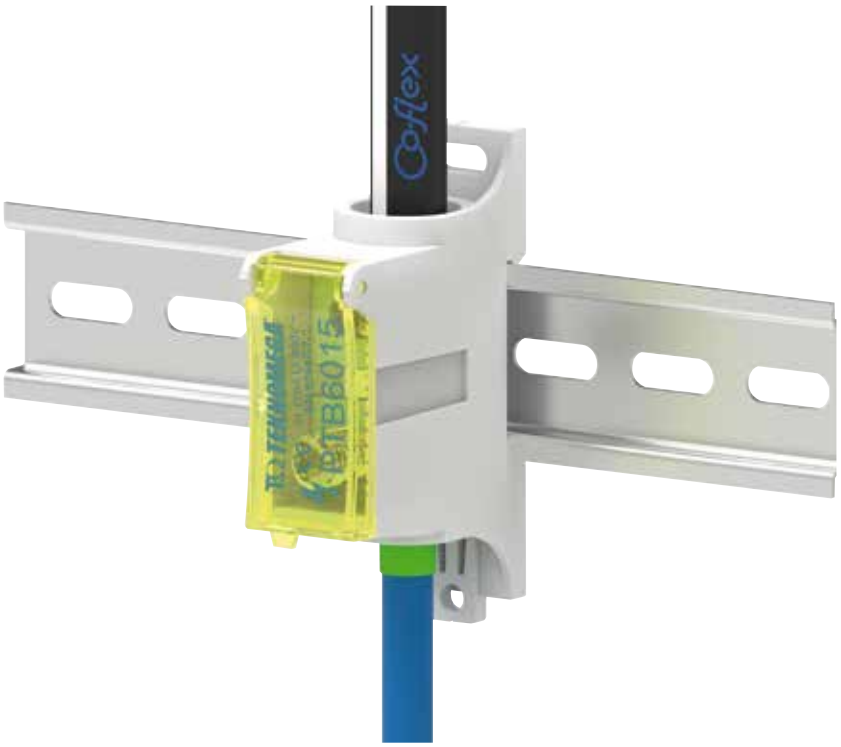
TECHNICAL FEATURES

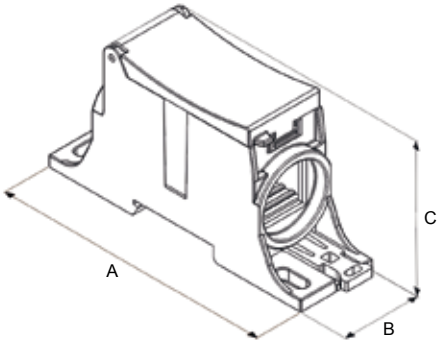
Self-extinguishing insulating body: PA 6 UL 94-V0
Cover: PC, transparent yellow
Conduction block
- *Tinned copper*
- *Suitable for aluminium and copper cable connections*

Clamps: Tinned steel and Al alloy
Screws: Tinned steel
Protection Index IP20
Compliant with standard EN 60947-7-1

ADVANTAGES

Openable and removable frontal protection cover
Body structure with high dielectric features
Milled clamp for input connections by indirect tightening
Highly reliable connection
Direct connections with COFLEX, COFLEX PLUS
Possibility of connections with J-LINK and J-LINK PLUS with RPC adapter
Guided access of cables
Easy installation on DIN rails or on panels with screws
Possibility of fixing in adjacent with pre-mounted clip on the insulating structure





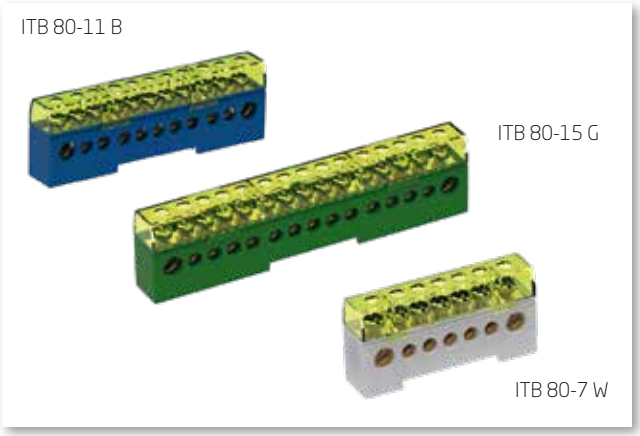
POWER TERMINALS 125-160-250-400 A

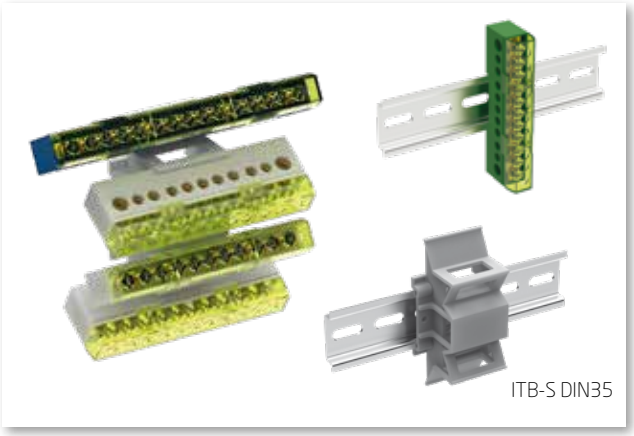
Code	Reference		Weight (Kg)	A (mm)	B (mm)	C (mm)
PTB6015	PTB 125	1	0,110	84	24	54
PTB6020	PTB 160	1	0,115	84	24	54
PTB6025	PTB 250	1	0,195	111	27	56
PTB6030	PTB 400	1	0,270	111	32	60

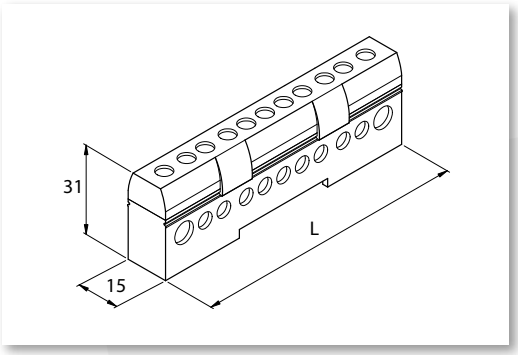
TECHNICAL DATA

Code	Type	In (A)	IN/OUT	Recommended COFLEX* L (mm)	Stripped wire (mm²)	Wire with ferrule (mm²)	Nr	 (Nm)	Icw (kA)	Ipk (kA)	Ui (V)
PTB6015	1 pole output 125A	125	IN →	3x9x0,8	25÷35	10÷35	1	10	7,5	31,6	1000
			← OUT	3x9x0,8	25÷35	10÷35	1	10			
PTB6020	1 pole output 160A	160	IN →	3x13x0,5	25÷70	10÷50	1	10	11,2	41	1000
			← OUT	3x13x0,5	25÷70	10÷50	1	10			
PTB6025	1 pole output 250A	250	IN →	4x15,5x0,8	50÷95	35÷95	1	14	15,1	43,2	1000
			← OUT	4x15,5x0,8	50÷95	35÷95	1	14			
PTB6030	1 pole output 400A	400	IN →	6x15,5x0,8	25÷185	25÷150	1	25	29,6	52,3	1000
			← OUT	6x15,5x0,8	25÷185	25÷150	1	25			

**See the flexible bar tables COFLEX and COFLEX PLUS*





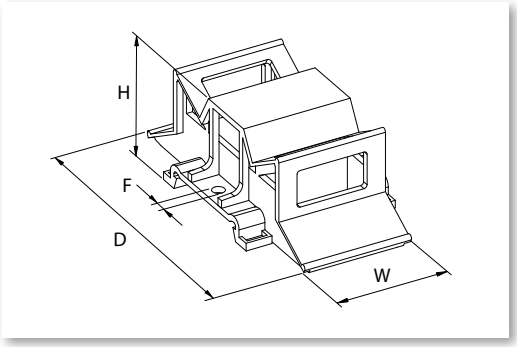


TECHNICAL FEATURES

Insulating body: PA 66 UL 94-V0,
Grey RAL 7035 - Blue RAL 5012 - Green RAL 6024.
Cover: PC UL 94-V0, transparent yellow.
Conduction block: Brass.
Screws: Galvanized steel.
Direct mounting on DIN rail.
Nominal insulation voltage: 500 V.
Compliant with standard EN 60947-7-1.

1 POLE 80 A

Code	Reference	Couleur		Weight (Kg)	L (mm)	ø holes (mm)	n° holes	Stripped wire (mm²)	Wire with ferrule (mm²)	(Nm)
ITB1000	ITB 80-7 W	Gris	10	0,046	63	7,5	2	4 ÷ 16	2,5 ÷ 16	2
ITB1015	ITB 80-7 B	Bleu				5,5	5	2,5 ÷ 6	1,5 ÷ 6	1,5
ITB1030	ITB 80-7 G	Vert								
ITB1005	ITB 80-11 W	Gris	10	0,070	95	7,5	2	4 ÷ 16	2,5 ÷ 16	2
ITB1020	ITB 80-11 B	Bleu				5,5	9	2,5 ÷ 6	1,5 ÷ 6	1,5
ITB1035	ITB 80-11 G	Vert								
ITB1010	ITB 80-15 W	Gris	10	0,094	125	7,5	2	4 ÷ 16	2,5 ÷ 16	2
ITB1025	ITB 80-15 B	Bleu				5,5	13	2,5 ÷ 6	1,5 ÷ 6	1,5
ITB1040	ITB 80-15 G	Vert								



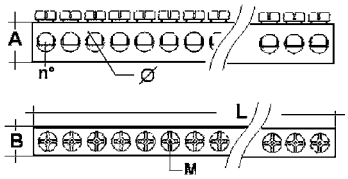
TECHNICAL FEATURES

Material: PA 66 UL 94-V0, grey RAL 7035.
Direct mounting on DIN rail.
Mounting on steel plate by screws M4.

ADVANTAGE
Up to 4 ITB terminal blocks can be mounted on the support it is possible to create distribution blocks of 2P, 3P or 4P .

1 POLE 80 A SUPPORT

Code	Reference		W (mm)	H (mm)	D (mm)	F (mm)	Fix. Hole space (mm)
ITB2000	ITB-S DIN35	10	35	31	90	4	40

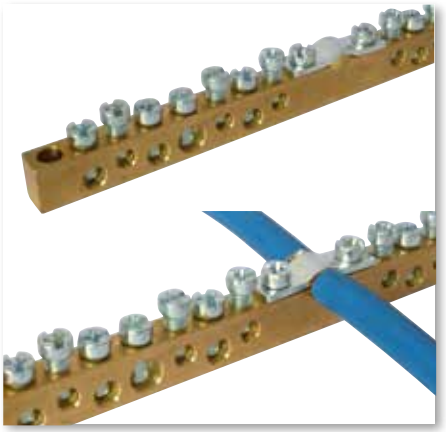


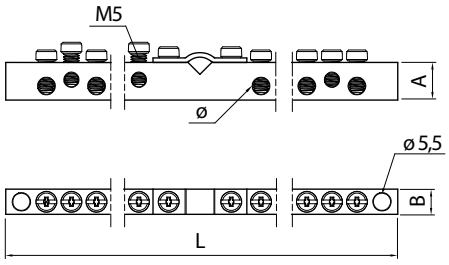
TECHNICAL FEATURES

Brass
Complete with galvanized steel screws
with cross head
1 meter long

EARTHING BARS

Code	Reference		Weight (Kg)	L (mm)	A (mm)	B (mm)	M	ø holes (mm)	n° holes	Stripped wire (mm²)	Wire with ferrule (mm²)	(Nm)
MRS1501	MRS 9x6	10	0,380	1000	9	6	M4	5,2	113	2,5 ÷ 6	1,5 ÷ 6	2
MRS1506	MRS 12x8	10	0,774	1000	12	8	M5	6,5	116	2,5 ÷ 16	1,5 ÷ 10	3





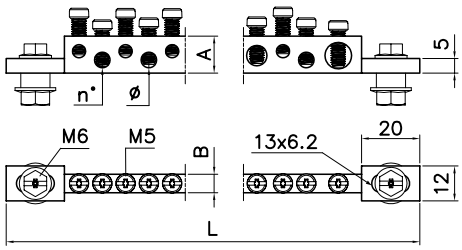
TECHNICAL FEATURES

Material: brass.
Connection with cable collar up to 25 mm².
Ends with holes for easier fixing.
Complete with connection screws in
galvanized steel.

EARTHING TERMINALS WITH CABLE COLLAR

Code	Reference		Weight (Kg)	L (mm)	AxB (mm)	n° inputs	ø (mm)	n° holes	Stripped wire (mm²)	Wire with ferrule (mm²)	(Nm)
MRS4000	MRS 12X8-14	10	0,125	165	12x8	1	7,0	2	4 ÷ 16	2,5 ÷ 16	2
							5,3	6	2,5 ÷ 6	1,5 ÷ 6	1,5
							4,5	6	1,5 ÷ 4	0,75 ÷ 4	1,5
MRS4005	MRS 12X8-28	10	0,240	312	12x8	2	7,0	4	4 ÷ 16	2,5 ÷ 16	2
							5,3	12	2,5 ÷ 6	1,5 ÷ 6	1,5
							4,5	12	1,5 ÷ 4	0,75 ÷ 4	1,5
MRS4010	MRS 12X8-42	5	0,358	462	12x8	3	7,0	6	4 ÷ 16	2,5 ÷ 16	2
							5,3	18	2,5 ÷ 6	1,5 ÷ 6	1,5
							4,5	18	1,5 ÷ 4	0,75 ÷ 4	1,5

BRASS TERMINALS

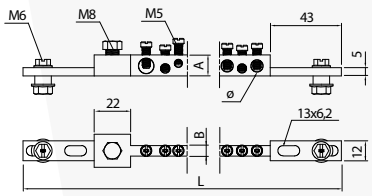


TECHNICAL FEATURES

Universal fixing:
Direct Fixing, Fixing on Copper Bar,
Fixing on Spacers and
extension 2 connectors.
High conductivity brass.
Complete with fixings M6
and connection screws M5
in galvanized steel.

EARTHING TERMINALS

Code	Reference		Weight (Kg)	L (mm)	A (mm)	B (mm)	ø holes (mm)	No. holes	Stripped wire (mm²)	Wire with ferrule (mm²)	(Nm)
MRS2000	MRS 13-6-20	1	0,165	215	13	6	9,1	1	16 ÷ 35	10 ÷ 35	2
							7,0	3	4 ÷ 16	2,5 ÷ 16	2
							5,3	8	2,5 ÷ 6	1,5 ÷ 6	1,5
							4,5	8	1,5 ÷ 4	0,75 ÷ 4	1,5
MRS5000	MRS 13-6-50	1	0,353	462	13	6	9,1	1	16 ÷ 35	10 ÷ 35	2
							7,0	6	4 ÷ 16	2,5 ÷ 16	2
							5,3	24	2,5 ÷ 6	1,5 ÷ 6	1,5
							4,5	19	1,5 ÷ 4	0,75 ÷ 4	1,5

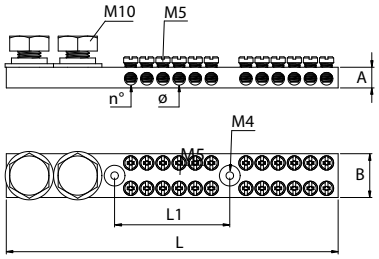


TECHNICAL FEATURES

Material: brass.
Connection with cable lug up to 95mm².
Universal fixing with 2 eyelet holes:
Direct Fixing,
Fixing on Copper Bar,
Fixing on Spacers and
extension 2 connectors.
Complete with fixings and
connection screws in galvanized steel.

EARTHING TERMINALS WITH CONNECTIONS FOR HOUSING

Code	Reference		Weight (Kg)	L (mm)	A (mm)	B (mm)	ø holes (mm)	n° holes	Stripped wire (mm²)	Wire with ferrule (mm²)	(Nm)
MRS5002	MRS 13-6-41	1	0,350	462	13	6	9,1	1	16 ÷ 35	10 ÷ 35	2
							7,0	7	4 ÷ 16	2,5 ÷ 16	2
							5,3	19	2,5 ÷ 6	1,5 ÷ 6	1,5
							4,5	14	1,5 ÷ 4	0,75 ÷ 4	1,5
MRS5005	MRS 13-6-56	1	0,330	462	13	6	9,1	1	16 ÷ 35	10 ÷ 35	2
							7,0	1	4 ÷ 16	2,5 ÷ 16	2
							4,5	54	1,5 ÷ 4	0,75 ÷ 4	1,5

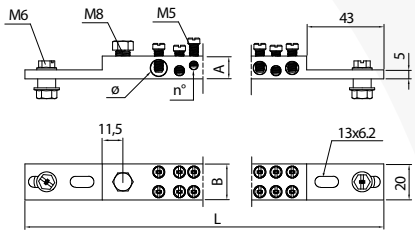


TECHNICAL FEATURES

Brass
double connection per hole
dual input up to 50 mm²
Complete with galvanized steel screws

BORNIER A CONNEXION DOUBLES

Code	Reference		Weight (Kg)	L (mm)	L1 (mm)	A (mm)	B (mm)	ø trous (mm)	No. trous	Stripped wire (mm²)	Wire with ferrule (mm²)	(Nm)
MRS3000	MRS 2x6	10	0,170	102	50	9	19	5,5	6	2,5 ÷ 6	1,5 ÷ 6	2
MRS3005	MRS 2x12	10	0,215	144	50	9	19	5,5	12	2,5 ÷ 6	1,5 ÷ 6	2
MRS3010	MRS 2x24	10	0,326	230	120	9	19	5,5	24	2,5 ÷ 6	1,5 ÷ 6	2

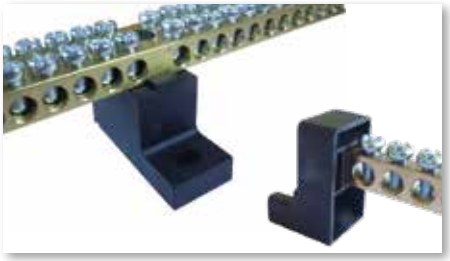


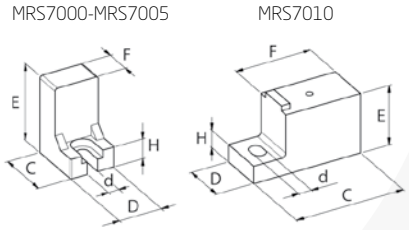
TECHNICAL FEATURES

High conductivity brass.
Two rows of connections with blind holes.
Connection with cable lug up to 95mm².
Universal fixing with oblong holes:
Direct Fixing, Fixing on
Copper Bar, Fixing on Spacers
and extension 2 connectors.
Complete with fixings M6
and connection screws M5
in galvanized steel.

DOUBLE EARTHING TERMINAL

Code	Reference		Weight (Kg)	L (mm)	A (mm)	B (mm)	ø holes (mm)	No. holes	Stripped wire (mm²)	Wire with ferrule (mm²)	(Nm)
MRS3500	MRS 2X41	1	0,85	462	13	20	9,1	2X1	16 ÷ 35	10 ÷ 35	2
							7,0	2X7	4 ÷ 16	2,5 ÷ 16	2
							5,3	2X19	2,5 ÷ 6	1,5 ÷ 6	1,5
							4,5	2X14	1,5 ÷ 4	0,75 ÷ 4	1,5





TECHNICAL FEATURES

Polyamide 66
Self-extinguishing: V2-UL94
MRS7010:with screw fastening
the terminal

TERMINAL SUPPORTS

Code	Reference		Terminal cross-section A x B	C (mm)	D (mm)	E (mm)	F (mm)	H (mm)	d (mm)
MRS7000	MRS-S 9x6	50	9 x 6	22	17,5	31	11	8	4,2
MRS7005	MRS-S 12x8	50	12 x 8	22	17,5	31	11	8	4,2
MRS7010	MRS-S 9x19	50	9 x 19	44	19	24	30	7	5,2

The copper braid is used as a super flexible conductor for all electric connection requirements, including power, earthing and equipotential connections.
It results from the use of a number of standard wires with diameter between 0.10 and 0.30 mm, twined together to form a cord.
More cords twined together can produce a small cross-sectioned braid or further secondary cords which, twined again, make it possible to get the desired cross-section.

Three typologies of copper braid:

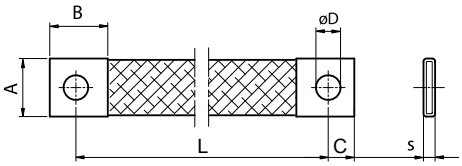
ROUND, made from tightly interwoven cords until they become a full round section.
It is used for power and mass connections, and, when suitably insulated, as an alternative to the cables. In that case, compared to insulated cables, with the same cross-section, it allows more current density and, most of all, extraordinary flexibility.

TUBULAR, made from small interwoven cords until they form a tubular structure, hollow inside. It is used as a protection sleeve for electric cables inserted inside of the braid, thus producing screens and protections against interferences and/or disturbances.

FLAT, made using the same process as in tubular braids, but flattening it between rollers to the desired dimensions.
It is used for power, earthing and equipotential connections.
In power applications, it makes flexible connections which easily compensate offsets between elements to be interconnected, and also provides excellent buffering of vibrations induced by, i.e., connection to a transformer.
With the same cross-section, it can take a higher current density than cables or copper bars.

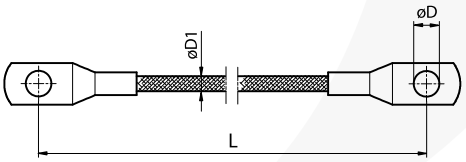
TECHNICAL FEATURES

Electrolytic copper Cu-ETP 99.90%
Red and tinned copper
Resistivity: 0,0172 Ω mm²/m
Mechanical resistance: min. 200 MPa



FLAT TINNED COPPER EARTHING BRAIDS

Code	Reference		Weight (Kg)	Current (A)	Sect. (mm²)	S (mm)	L (mm)	A (mm)	B (mm)	C (mm)	D (mm)
TMS1000	TMS 6-150-6	10	0,010	55	6	2	150	10,5	10	6	6,5
TMS1005	TMS 6-200-6	10	0,013	55	6	2	200	10,5	10	6	6,5
TMS1010	TMS 10-150-8	10	0,021	85	10	2,1	150	17	22	9	8,5
TMS1015	TMS 10-200-8	10	0,025	85	10	2,1	200	17	22	9	8,5
TMS1020	TMS 10-250-8	10	0,029	85	10	2,1	250	17	22	9	8,5
TMS1025	TMS 10-300-8	10	0,033	85	10	2,1	300	17	22	9	8,5
TMS1030	TMS 16-100-8	10	0,023	120	16	2,6	100	17	22	9	8,5
TMS1035	TMS 16-150-8	10	0,030	120	16	2,6	150	17	22	9	8,5
TMS1040	TMS 16-200-8	10	0,037	120	16	2,6	200	17	22	9	8,5
TMS1045	TMS 16-250-8	10	0,046	120	16	2,6	250	17	22	9	8,5
TMS1050	TMS 16-300-8	10	0,054	120	16	2,6	300	17	22	9	8,5
TMS1055	TMS 25-150-10	10	0,048	150	25	2,8	150	21	22	9	10,5
TMS1060	TMS 25-200-10	10	0,059	150	25	2,8	200	21	22	11	10,5
TMS1065	TMS 25-250-10	10	0,072	150	25	2,8	250	21	22	11	10,5
TMS1070	TMS 25-300-10	10	0,084	150	25	2,8	300	21	22	11	10,5
TMS1075	TMS 35-150-10	10	0,061	195	35	3,6	150	21	22	11	10,5
TMS1080	TMS 35-200-10	10	0,077	195	35	3,6	200	21	22	11	10,5
TMS1085	TMS 35-250-10	10	0,097	195	35	3,6	250	21	22	11	10,5
TMS1090	TMS 35-300-10	10	0,110	195	35	3,6	300	21	22	11	10,5
TMS1095	TMS 50-100-10	10	0,080	250	50	4,8	100	25,5	25	12,5	10,5
TMS1100	TMS 50-150-10	10	0,095	250	50	4,8	150	25,5	25	12,5	10,5
TMS1105	TMS 50-200-10	10	0,129	250	50	4,8	200	25,5	25	12,5	10,5
TMS1110	TMS 50-250-10	10	0,143	250	50	4,8	250	25,5	25	12,5	10,5
TMS1115	TMS 50-300-10	10	0,179	250	50	4,8	300	25,5	25	12,5	10,5
TMS1120	TMS 75-200-10	10	0,185	330	75	5,5	200	30	30	15	10,5
TMS1125	TMS 75-250-10	10	0,225	330	75	5,5	250	30	30	15	10,5
TMS1130	TMS 75-300-10	10	0,265	330	75	5,5	300	30	30	15	10,5
TMS1135	TMS 100-200-12	10	0,250	370	100	6,5	200	30	30	15	12,5
TMS1140	TMS 100-250-12	10	0,300	370	100	6,5	250	30	30	15	12,5
TMS1145	TMS 100-300-12	10	0,375	370	100	6,5	300	30	30	15	12,5



ROUND TINNED COPPER EARTHING BRAIDS

Ring lugs as per DIN 46234

Code	Reference		Weight (Kg)	Current (A)	Sect. (mm²)	D1 (mm)	L (mm)	D (mm)
TMT1200	TMT 6-150-6	10	0,0125	55	6	4	150	6,5
TMT1205	TMT 6-200-6	10	0,0154	55	6	4	200	6,5
TMT1210	TMT 10-300-6	10	0,0312	85	10	5	300	6,5

TECHNICAL FEATURES

Red copper Cu-ETP UNI 5649-71
Tinned copper Cu-ETP UNI 5649-71
Standard wire 0.20 mm (0.15 mm for 6 and 10 mm² cross-sections)

**** Intensity values referred to:**
Room temperature: 35°C
Max. temperature on conductor: 70°C

FLAT BRAIDS

Code	Reference	Code	Reference		Weight (kg/m)	**Current (A)	Sect. (mm²)	S (mm)	L (mm)
Cuivre étamé		Cuivre rouge							
TPS1000	TPS 10-4	**TPR1000**	TPR 10-4	25 m	0,04	40	4	1,0	8,0
TPS1005	TPS 10-6	**TPR1005**	TPR 10-6	25 m	0,06	55	6	1,0	10,0
TPS1010	TPS 20-10	**TPR1010**	TPR 20-10	25 m	0,10	85	10	1,5	10,0
TPS1015	TPS 20-16	**TPR1015**	TPR 20-16	25 m	0,16	120	16	2,0	16,0
TPS1020	TPS 20-25	**TPR1020**	TPR 20-25	20 m	0,25	150	25	2,0	25,0
TPS1025	TPS 20-30	**TPR1021**	TPR 20-30	20 m	0,30	170	30	2,4	25,0
TPS1030	TPS 20-35	**TPR1025**	TPR 20-35	20 m	0,35	195	35	2,8	25,0
TPS1035	TPS 20-40	**TPR1026**	TPR 20-40	20 m	0,40	210	40	3,2	25,0
TPS1040	TPS 20-50	**TPR1030**	TPR 20-50	20 m	0,50	250	50	4,0	25,0
TPS1045	TPS 20-75	**TPR1035**	TPR 20-75	20 m	0,75	330	75	5,0	30,0
TPS1050	TPS 20-100	**TPR1040**	TPR 20-100	15 m	1,00	370	100	5,0	40,0
TPS1055	TPS 20-120	**TPR1045**	TPR 20-120	15 m	1,20	420	120	6,0	40,0

TRESSES RONDES

Code	Reference	Code	Reference		Weight (kg/m)	**Current (A)	Sect. (mm²)	ø (mm)
Cuivre étamé		Cuivre rouge						
TTS1000	TTS 10-6	**TTR1000**	TTR 10-6	50 m	0,06	55	6	4,0
TTS1005	TTS 20-10	**TTR1005**	TTR 20-10	50 m	0,10	85	10	5,0
TTS1010	TTS 20-16	**TTR1010**	TTR 20-16	50 m	0,16	120	16	6,4
TTS1015	TTS 20-25	**TTR1015**	TTR 20-25	25 m	0,25	150	25	8,0
TTS1020	TTS 20-35	**TTR1020**	TTR 20-35	25 m	0,35	195	35	9,5
TTS1025	TTS 20-50	**TTR1025**	TTR 20-50	25 m	0,50	250	50	11,0
TTS1030	TTS 20-100	**TTR1030**	TTR 20-100	10 m	1,00	370	100	15,0

TECHNICAL FEATURES

Tinned copper Cu-ETP UNI 5649-71
Standard wire 0.20 mm (0.15 mm for 6 and 10 mm² cross-sections)
transparent PVC, 1 mm thickness
Electric insulation: 450V
Max. working temperature: 80°C

**** Intensity values referred to:**
Room temperature: 35°C
Max. temperature on conductor: 70°C

INSULATED BRAIDS IN TINNED COPPER - Flat

Code	Reference		Weight (kg/m)	**Current (A)	Sect. (mm²)	s (mm)	L (mm)
TPI1000	TPI 20-16	20 m	0,20	120	16	2,0	16,0
TPI1005	TPI 20-25	20 m	0,30	150	25	2,0	25,0
TPI1010	TPI 20-35	20 m	0,40	195	35	3,0	25,0
TPI1015	TPI 20-50	20 m	0,55	250	50	3,3	30,0

INSULATED BRAIDS IN TINNED COPPER - Round

Code	Reference		Weight (kg/m)	**Current (A)	Sect. (mm²)	ø (mm)
TTI1000	TTI 20-16	50 m	0,18	120	16	8,5
TTI1005	TTI 20-25	25 m	0,27	150	25	10
TTI1010	TTI 20-35	25 m	0,4	195	35	12

TUBULAR BRAIDS IN TINNED COPPER

Code	Reference	ø Single wire (mm)		Weight (kg/m)	ø Nom. (mm)	ø Max (mm)
TSC1000	TSC 4	0,20	50 m	0,03	5	10
TSC1005	TSC 10	0,20	50 m	0,06	10	20
TSC1010	TSC 16	0,20	50 m	0,20	20	40
TSC1015	TSC 25	0,20	25 m	0,27	25	50
TSC1020	TSC 35	0,20	25 m	0,34	30	60
TSC1025	TSC 50	0,20	25 m	0,41	35	70

THE RANGE - APPLICATIONS AND ADVANTAGES

Braided polyester sleeve
- made of braided polyester monofilament to form a tubular structure
- for all electric cable wiring applications
- high expandibility value
- limited number of references
- excellent resistance to abrasion and to chemical agents
- excellent mechanical protection of conductors
- halogen-free
- certified UL, RoHS
- **UL 94-V0 also available**

WRAPFLEX Openable braided sleeve
- made of braided polyester monofilament + multifilament
- openable sleeve with "memory effect" for immediate closing back
- allows covering already wired cable bundles
- excellent resistance to abrasion and to chemical agents
- cerified RoHS

Silicone sleeve
- made of silicone impregnated and/or coated with fiberglass
- for electric cable wiring applications, guaranteeing excellent electric insulation and resistance to high working temperatures
- good expandibility

Fiberglass sleeve
- made of braided fiberglass monofilament to form a tubular structure
- high resistance to and protection against hot temperature
- good mechanical resistance to abrasion and to chemical agents
- fireproof

Spiral sleeve
- made of polyethylene
- allows covering already wired cable bundles
- certified RoHS

TECHNICAL FEATURES

Colour: Grey or Black
Compliant with RoHS
Halogen-free polyester (PET) monofilament
Diameter 0.22 mm
Density: 1.14 kg/dm³
Working temperature: - 50°C + 150°C
Melting temperature: 230± 5°C
Self-extinguishing: UL 94-V2
Flame retardant
Packaging: coil in cardboard box self-reeling from the center

POLYESTER BRAIDED SLEEVE V2 UL - Grey colour

Code	Reference		ø nom. (mm)	ø min (mm)	ø max (mm)
GPG2001	GPG 04G	100 m	4	2	7
GPG2000	GPG 06G	100 m	6	3	9
GPG2005	GPG 08G	100 m	8	5	14
GPG2010	GPG 10G	100 m	10	7	17
GPG2015	GPG 12G	50 m	12	8	24
GPG2020	GPG 15G	50 m	15	10	27
GPG2025	GPG 20G	50 m	20	14	30
GPG2029	GPG 25G	50 m	25	17	40
GPG2030	GPG 30G	50 m	30	20	50
GPG2034	GPG 35G	50 m	35	25	55
GPG2035	GPG 40G	50 m	40	30	60
GPG2040	GPG 50G	50 m	50	40	80
GPG2045	GPG 64G	25 m	64	45	105

POLYESTER BRAIDED SLEEVE V2 UL - Black colour

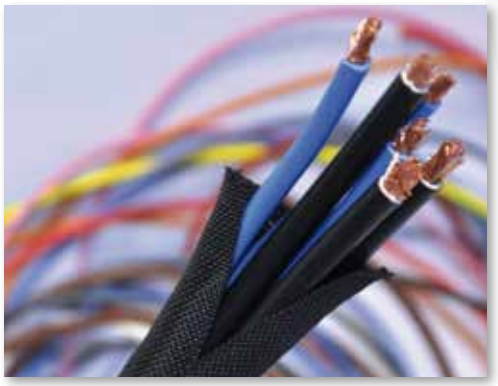
Code	Reference		ø nom (mm)	ø min (mm)	ø max (mm)
GPN2001	GPN 04N	100 m	4	2	7
GPN2000	GPN 06N	100 m	6	3	9
GPN2005	GPN 08N	100 m	8	5	14
GPN2010	GPN 10N	100 m	10	7	17
GPN2015	GPN 12N	50 m	12	8	24
GPN2020	GPN 15N	50 m	15	10	27
GPN2025	GPN 20N	50 m	20	14	30
GPN2029	GPN 25N	50 m	25	17	40
GPN2030	GPN 30N	50 m	30	20	50
GPN2034	GPN 35N	50 m	35	25	55
GPN2035	GPN 40N	50 m	40	30	60
GPN2040	GPN 50N	50 m	50	40	80
GPN2045	GPN 64N	25 m	64	45	105

TECHNICAL FEATURES

Black colour with grey identification wire
Compliant with RoHS
Halogen-free polyester (PET) monofilament
Diameter 0.22 mm
Density: 1.14 kg/dm³
Working temperature: - 50°C + 150°C
Melting temperature: 230± 5°C
Self-extinguishing: UL 94-V0
Flame retardant
Packaging: coil in cardboard box self-reeling from the center

POLYESTER BRAIDED SLEEVE V0 UL

Code	Reference		ø nom. (mm)	ø min (mm)	ø max (mm)
GPV1000	GPV 06N	100 m	5	3	9
GPV1005	GPV 08N	100 m	8	5	14
GPV1010	GPV 10N	100 m	10	7	17
GPV1015	GPV 12N	50 m	12	8	24
GPV1020	GPV 15N	50 m	15	10	27
GPV1025	GPV 20N	50 m	20	14	30
GPV1030	GPV 30N	50 m	30	20	50
GPV1035	GPV 40N	50 m	40	30	60
GPV1040	GPV 50N	50 m	50	40	80
GPV1045	GPV 64N	25 m	64	45	105



TECHNICAL FEATURES

Black colour
Compliant with RoHS
Halogen-free polyester (PET) monofilament + multifilament
Density: 1.38 kg/dm³
Working temperature: -50°C +150°C
Melting temperature: 250± 5°C
Self-extinguishing: UL 94-V0
Flame retardant
Self-closing
Packaging: coil in cardboard box

WRAPFLEX SELF-CLOSING POLYESTER SLEEVE V0

Code	Reference		ø nom. (mm)
GWF1000	GWF 08	25 m	8
GWF1005	GWF 13	25 m	13
GWF1010	GWF 19	25 m	19
GWF1015	GWF 25	25 m	25
GWF1020	GWF 32	15 m	32

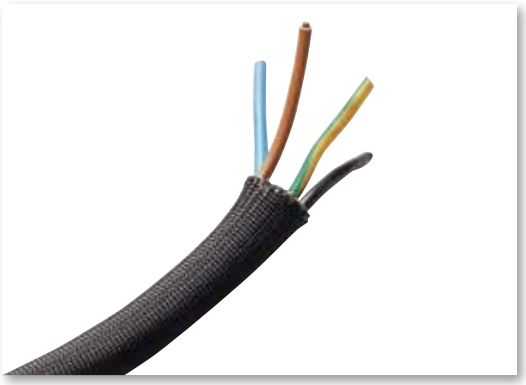
TECHNICAL FEATURES

Red colour
Silicone + internal fiberglass reinforcement
Rated voltage: 500 V
Dielectric rigidity: 2500 V
Working temperature: -60°C +200°C
Max. working temperature for 1 second: +280°C
Good expandibility and elasticity
Packaging: coil with transparent film

Dielectric rigidity up to 15.000 V on request

SILICONE

Code	Reference		ø nom. (mm)
GSL1000	GSL 04	100 m	4
GSL1005	GSL 06	100 m	6
GSL1010	GSL 08	100 m	8
GSL1015	GSL 10	100 m	10
GSL1020	GSL 12	100 m	12
GSL1025	GSL 16	50 m	16
GSL1030	GSL 20	50 m	20
GSL1035	GSL 24	50 m	24
GSL1040	GSL 30	50 m	30

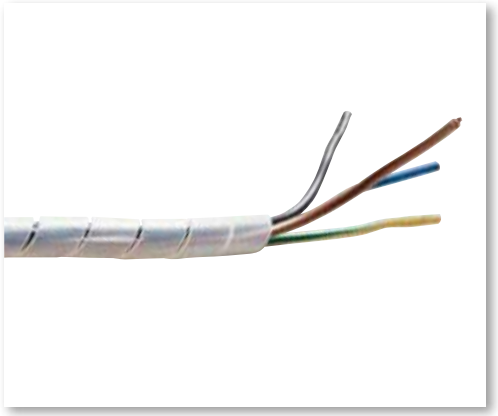


TECHNICAL FEATURES

Black colour
Fiberglass impregnated with siliconic varnish
Working temperature: 200°C
Max. working temperature: 300°C
Good flexibility
Resistant to most chemical agents
Packaging: coil

FIBERGLASS BRAIDED SLEEVE

Code	Reference		ø nom. (mm)
GFV1000	GFV 04	100 m	4
GFV1005	GFV 06	100 m	6
GFV1010	GFV 08	100 m	8
GFV1015	GFV 10	100 m	10
GFV1020	GFV 12	100 m	12
GFV1025	GFV 16	50 m	16
GFV1030	GFV 20	50 m	20



TECHNICAL FEATURES

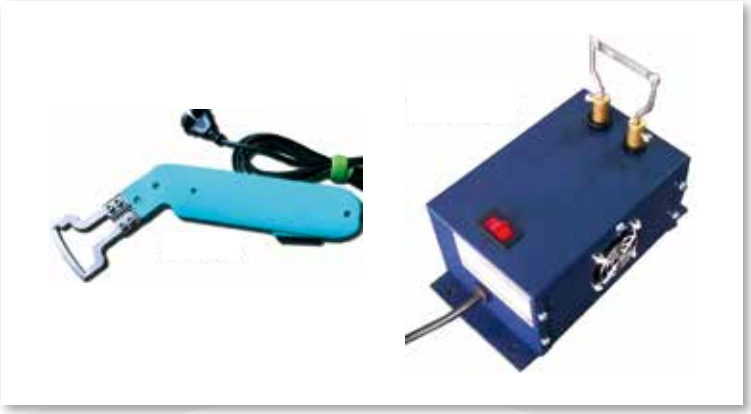
Colour: transparent or black (other colours upon request)
Polyethylene
Max. working temperature: 85°C
Packaging: coil in plastic bag

SPIRAL SLEEVE - Transparent colour

Code	Reference		ø nom. (mm)
GSP0995	GSP 04	25 m	4,2
GSP1000	GSP 06	25 m	6,4
GSP1002	GSP 09	25 m	9,5
GSP1005	GSP 12	25 m	12,7
GSP1007	GSP 15	25 m	15
GSP1010	GSP 20	20 m	19,1

SPIRAL SLEEVE - Black colour

Code	Reference		ø nom. (mm)
GSP1015	GSP 04N	25 m	4,2
GSP1020	GSP 06N	25 m	6,4
GSP1025	GSP 09N	25 m	9,5
GSP1030	GSP 12N	25 m	12,7
GSP1035	GSP 15N	25 m	15
GSP1040	GSP 20N	20 m	19,1



TECHNICAL FEATURES

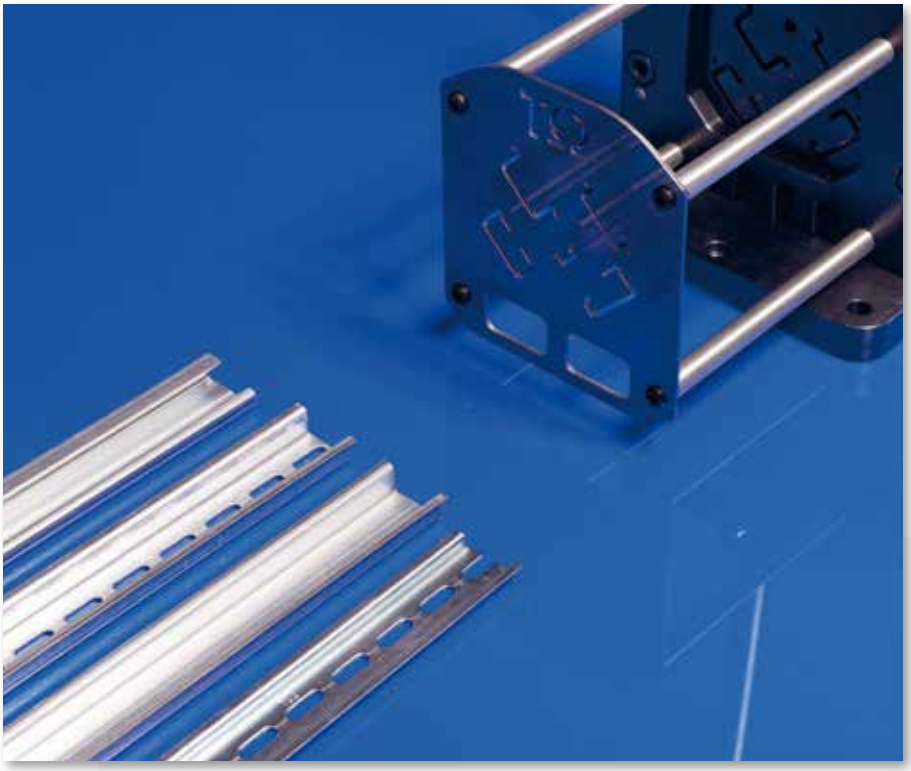
Two models to cut braided sleeves
Standard wire cutting and welding
in one single operation
Quick and clean operation

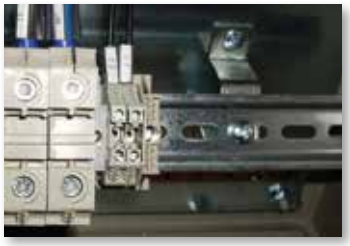
BRAIDED SLEEVE CUTTING TOOL

Code	Reference		Weight (kg)
UTG1000	UTG T	1	1,5
UTG1001	UTG M	1	0,94
UTG1500	UTG T-L	1	lame rec.
UTG1501	UTG M-L	1	lame rec.

UTG1000 hot blade sleeve cutting bench tool
Working temperature: 800°C
Power supply: 230 Volt/50 Hz
Supply cable: 1.5 meters
Spare blade UTG1500

UTG1001 hot blade sleeve cutting hand tool
Working temperature up to 800°C in few seconds
Power supply: 230 Volt/50 Hz
Supply cable: 2.5 meters
Spare blade UTG1501





Steel and/or aluminium DIN rails standardized as per European norms which allows fitting modular electrical devices and others inside electrical panel boards.

Two general DIN rail types:
SYMMETRICAL, also said "Ω", available in three sizes.
ASYMMETRICAL, also said "G".

Steel 30x15 "C" profile
Used to make infrastructures inside the electrical panel board and/or as support for equipment or wiring elements.

TECHNICAL FEATURES

Passivated galvanized steel
Sendzimir galvanized steel
Aluminium
High mechanical resistance
Compliant with standards
EN 60715 - DIN 46277

Available in solid and punched versions
Standard length: 2 meters
Some references available
in 3 meters length

Accessories

Wide range of clips and fasteners making it possible to conveniently fasten equipment with no provision for direct fitting on DIN rail and to fasten or space the same rail inside the panel board.

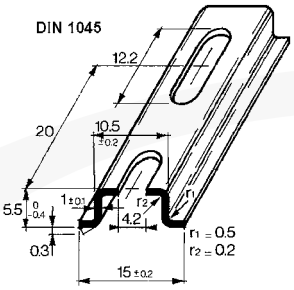
TECHNICAL FEATURES

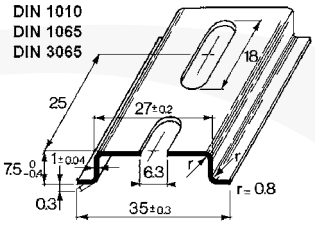
Passivated galvanized steel and plastic
High mechanical resistance

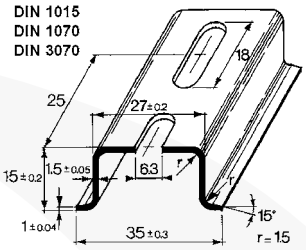
Tools

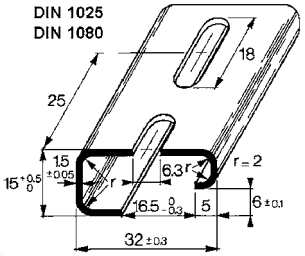
Cutting and punching tools for DIN rail, extremely easy to use. Neat cut without burrs and material waste; supporting rail for accurate cut at 90°, ruler supplied for repeated cuts up to 1 meter.
Maintenance-free.







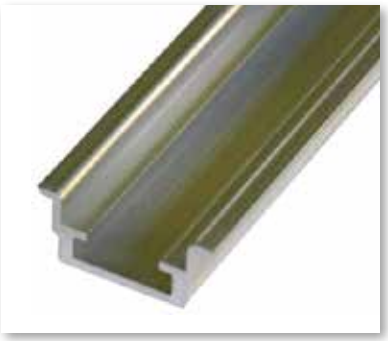


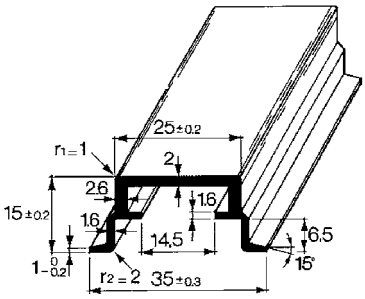
PASSIVATED GALVANIZED STEEL (RoHS)

Code	Reference	Length (m)		Weight (Kg/pz)
Symmetrical solid DIN rail				
DIN1040	DIN NF15H5	2	20	0,33
DIN1000	DIN NF35H7	2	20	0,70
DIN1005	DIN NF35H15	2	10	1,34
Symmetrical punched DIN rail				
DIN1045	DIN F15H5	2	20	0,33
DIN1010	DIN F35H7	2	20	0,60
DIN1015	DIN F35H15	2	10	1,23
Asymmetrical solid DIN rail				
DIN1020	DIN GNF	2	10	1,46
Asymmetrical punched DIN rail				
DIN1025	DIN GF	2	10	1,38

SENDZIMIR GALVANIZED STEEL (RoHS)

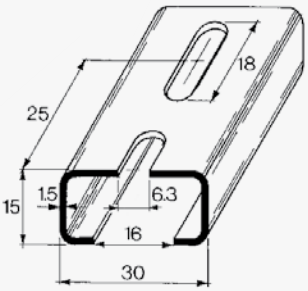
Code	Reference	Length (m)		Weight (Kg/pz)
Symmetrical solid DIN rail				
DIN1055	DIN NF35H7Z	2	20	0,7
DIN1060	DIN NF35H15Z	2	10	1,34
DIN3055	DIN NF35H7Z-3	3	10	1,05
DIN3060	DIN NF35H15Z-3	3	10	2,01
Symmetrical punched DIN rail				
DIN1065	DIN F35H7Z	2	20	0,6
DIN1070	DIN F35H15Z	2	10	1,23
DIN3065	DIN F35H7Z-3	3	10	0,9
DIN3070	DIN F35H15Z-3	3	10	1,84
Asymmetrical solid DIN rail				
DIN1075	DIN ANFZ	2	10	1,46
DIN3075	DIN ANFZ-3	3	10	2,19
Asymmetrical punched DIN rail				
DIN1080	DIN AFZ	2	10	1,38





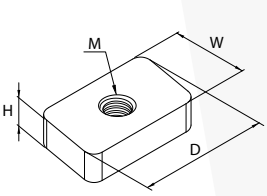
ALUMINIUM

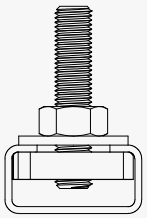
Code	Reference	Length (m)		Poids (Kg/pz)
Symmetrical solid DIN rail				
DIN1085	DIN NFAL	2	20	0,343



C-PROFILE - PASSIVATED GALVANIZED STEEL (RoHS)

Code	Reference	Length (m)		Poids (Kg/pz)
DIN1050	CFT30H15	2	10	1,3





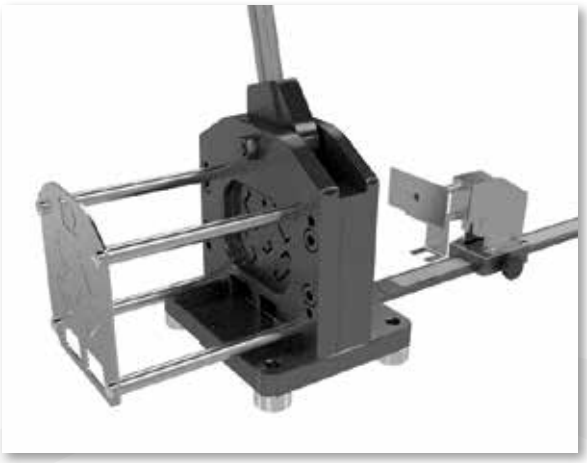
TECHNICAL FEATURES

Stell S235JR EN 10025
Electrogalvanized 7-8 µm

ADVANTAGES
It can be inserted into any point of the C-profil's slot by 90° rotation
The side in contact with the C-profil has a non-slip knurled finish.

RHOMBUS NUTS FOR C-PROFILE

Code	Reference		D	W	H	M	(Nm)
DIN1200	DIN C30M6	10	27	16	4	M6	5
DIN1250	DIN C30M8	10	27	16	6	M8	20



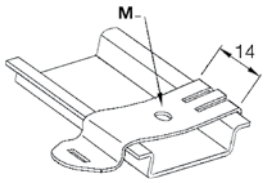
DIN RAIL CUTTING TOOL

Code	Reference		Weight (Kg)
UTD3005	UTD-T-P 03	1	16,5

Cutting:
Symmetrical DIN rails type "Ω" 15x5,5 - 35x7,5 - 35x15
Asymmetrical DIN rail type "G" 32x15
Profile type "C" 30x15

Punching with elongated hole:
Symmetrical DIN rails type "Ω" 35x7,5 - 35x15.
Elongated hole 12x6,4 mm along or perpendicular to the axis of the rail.

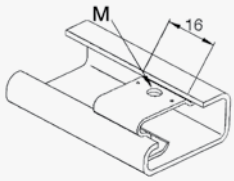
Supplied with rule up to 1000 mm.



Passivated galvanized steel (RoHS)

CLIP FOR SYMMETRICAL DIN RAIL

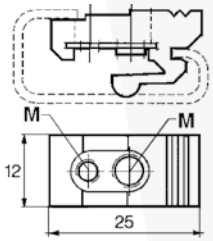
Code	Reference		M
DIN1110	DIN KLIP 4	100	M4
DIN1115	DIN KLIP 5	100	M5



Passivated galvanized steel (RoHS)

CLIP FOR ASYMMETRICAL DIN RAIL

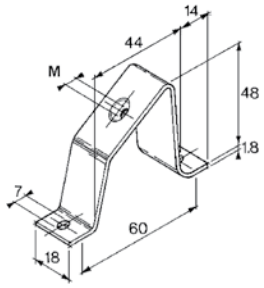
Code	Reference		M
DIN1090	DIN GKLIP 4	100	M4
DIN1095	DIN GKLIP 5	100	M5



Polyamide 66 with insert
in galvanized steel (RoHS)

CLIP FOR ASYMMETRICAL DIN RAIL

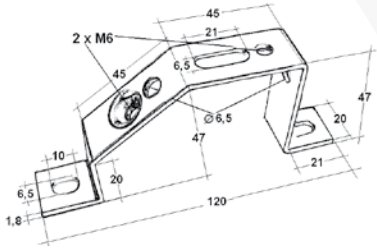
Code	Reference		M
DIN1100	DIN GKLIP 3-5	100	M3 - M5
DIN1105	DIN GKLIP 4-6	100	M4 - M6



Passivated galvanized steel (RoHS)

45° SUPPORTS

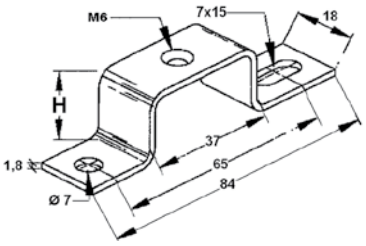
Code	Reference		M
DIN1030	DIN ST5	10	M5
DIN1035	DIN ST6	10	M6



Passivated galvanized steel (RoHS)

FLAT AND 45° SUPPORT

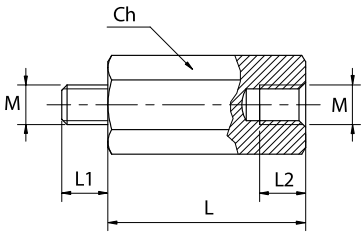
Code	Reference	
DIN1036	DIN ST 45PM6	10



Passivated galvanized steel (RoHS)

FLAT SUPPORTS

Code	Reference		H (mm)
DIN1120	DIN STC 20-6	10	20
DIN1125	DIN STC 25-6	10	25
DIN1130	DIN STC 30-6	10	30
DIN1135	DIN STC 40-6	10	40
DIN1140	DIN STC 50-6	10	50
DIN1145	DIN STC 70-6	10	70
DIN1150	DIN STC 90-6	10	90



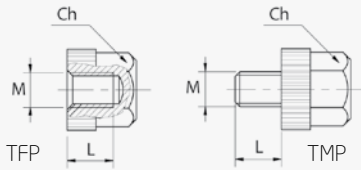
TECHNICAL FEATURES

Material: polystirene
Self-extinguishing: UL 94-V2
Max. working temperature: 90°C
Insulation voltage: 1000V
Inserts M-F: passivated galvanised steel

PLASTIC SPACERS

Code	Reference		M	Ch (mm)	L (mm)	L1 (mm)	L2 (mm)
DZP1005	DZP 15M5	50	M5	13	15	7	7
DZP1010	DZP 20M5	50	M5	13	20	7	7
DZP1015	DZP 30M5	50	M5	13	30	7	7
DZP1020	DZP 45M5	50	M5	13	45	7	7
DZP1025	DZP 55M5	50	M5	13	55	7	7
DZP1030	DZP 70M5	50	M5	13	70	7	7
DZP1035	DZP 85M5	50	M5	13	85	7	7

Code	Reference		M	Ch (mm)	L (mm)	L1 (mm)	L2 (mm)
DZP1040	DZP 120M5	50	M5	13	120	7	7
DZP1045	DZP 15M6	50	M6	13	15	7	7
DZP1050	DZP 20M6	50	M6	13	20	7	7
DZP1055	DZP 30M6	50	M6	13	30	7	7
DZP1060	DZP 45M6	50	M6	13	45	7	7
DZP1065	DZP 70M6	50	M6	13	70	7	7
DZP1070	DZP 120M6	50	M6	13	120	7	7

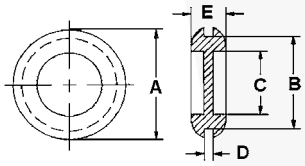


TECHNICAL FEATURES

Material: polystirene
Self-extinguishing: UL 94-V2
Max. working temperature: 90°C
Insulation voltage: 1000V
Male insert: passivated galvanised steel

PLASTIC CAPS

Code	Reference		M	Ch (mm)	L (mm)
TFP1000	TFP M5	50	M5	11	8
TFP1005	TFP M6	50	M6	11	8
TMP1010	TMP M5	50	M5	11	8
TMP1015	TMP M6	50	M6	11	8

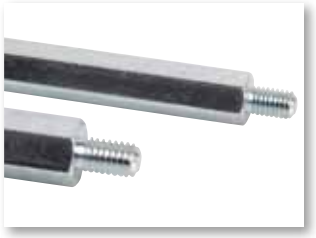


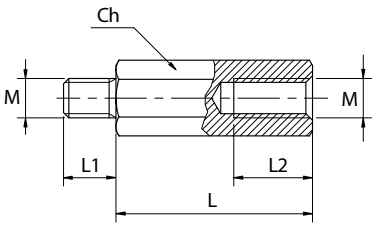
TECHNICAL FEATURES

Material: PVC SR 1700, black colour
Working Temperature: - 35 to +90 °C

GROMMET INSERTS

Code	Reference		A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
IPC1000	IPC DF13	100	17	13	8,5	2	7
IPC1005	IPC DF15,5	100	20	15,5	10,5	2	7,5
IPC1010	IPC DF19	100	24	19	14	2	8
IPC1015	IPC DF20,5	100	26	20,5	15	2	8,5
IPC1020	IPC DF23	100	29	23	18	2,5	8,5
IPC1025	IPC DF28,5	100	35	28,5	22	2,5	9
IPC1030	IPC DF37,5	100	44	37,5	32	2,5	9,5
IPC1035	IPC DF47,5	100	53	47,5	40	2,5	9,5





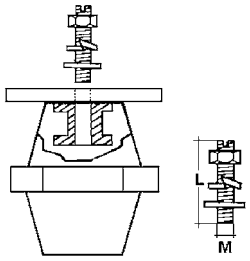
TECHNICAL FEATURES

Galvanized steel
Hexagonal profile
M-F (Male-Female) thread
M3 - M4 - M5 - M6 - M8
As per standard DIN 176
Tensile strength: 500 N/mm²

STEEL SPACERS

Code	Reference		Ch (mm)	L (mm)	M	L1 (mm)	L2 (mm)
DZM0995	DZM 20M3	100	6	20	M3	6	10
DZM1000	DZM 10M4	100	7	10	M4	8	6
DZM1005	DZM 15M4	100	7	15	M4	8	10
DZM1010	DZM 20M4	100	7	20	M4	8	10
DZM1015	DZM 25M4	100	7	25	M4	8	10
DZM1020	DZM 30M4	100	7	30	M4	8	10
DZM1025	DZM 35M4	100	7	35	M4	8	10
DZM1030	DZM 40M4	100	7	40	M4	8	10
DZM1035	DZM 50M4	100	7	50	M4	8	10
DZM1040	DZM 60M4	50	7	60	M4	8	10
DZM1042	DZM 70M4	50	7	70	M4	8	10
DZM1044	DZM 90M4	50	7	90	M4	8	10
DZM1045	DZM 15M5	100	8	10	M5	8	6
DZM1050	DZM 20M5	100	8	20	M5	8	10
DZM1055	DZM 25M5	100	8	25	M5	8	10
DZM1060	DZM 30M5	100	8	30	M5	8	10
DZM1065	DZM 35M5	100	8	35	M5	8	10
DZM1070	DZM 40M5	100	8	40	M5	8	10
DZM1075	DZM 50M5	50	8	50	M5	8	10
DZM1080	DZM 60M5	50	8	60	M5	8	10
DZM1085	DZM 70M5	50	8	70	M5	8	10

Code	Reference		Ch (mm)	L (mm)	M	L1 (mm)	L2 (mm)
DZM1090	DZM 80M5	50	8	80	M5	8	10
DZM1092	DZM 90M5	50	8	90	M5	8	10
DZM1093	DZM 10M5	100	8	10	M5	8	10
DZM1095	DZM 10M6	100	10	10	M6	10	6
DZM1100	DZM 15M6	100	10	15	M6	10	10
DZM1105	DZM 20M6	100	10	20	M6	10	12
DZM1106	DZM 25M6	100	10	25	M6	10	12
DZM1110	DZM 30M6	100	10	30	M6	10	12
DZM1115	DZM 40M6	50	10	40	M6	10	12
DZM1120	DZM 50M6	50	10	50	M6	10	12
DZM1125	DZM 60M6	50	10	60	M6	10	12
DZM1130	DZM 70M6	50	10	70	M6	10	12
DZM1135	DZM 80M6	50	10	80	M6	10	12
DZM1140	DZM 90M6	25	10	90	M6	10	12
DZM1145	DZM 100M6	25	10	100	M6	10	12
DZM1150	DZM 20M8	50	13	20	M8	14	14
DZM1155	DZM 25M8	50	13	25	M8	14	14
DZM1160	DZM 30M8	50	13	30	M8	14	14
DZM1165	DZM 40M8	25	13	40	M8	14	14
DZM1170	DZM 50M8	25	13	50	M8	14	14
DZM1175	DZM 70M8	25	13	70	M8	14	14

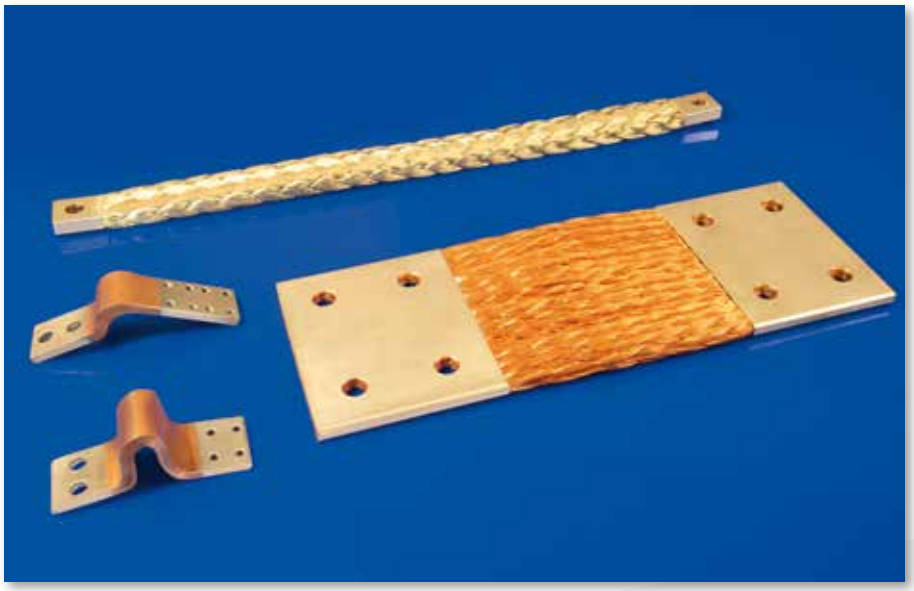


TECHNICAL FEATURES

Made of galvanized steel class 8.8
Complete with nut, flat washer and spring lock washer

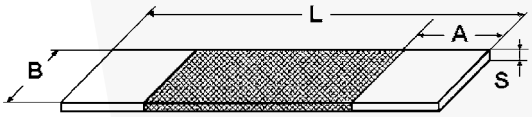
THREADED STUDS FOR INSULATORS

Code	Reference		M	L
ISO3000	ISO PM5x20	25	M5	20
ISO3005	ISO PM6x30	25	M6	30
ISO3010	ISO PM8x30	25	M8	30
ISO3015	ISO PM8x35	25	M8	35
ISO3020	ISO PM10x40	25	M10	40
ISO3025	ISO PM12x50	25	M12	50



Braided power shunts

Make to order production



For use as parallel shunts
- use the here under indicated derating coefficient
- space shunts at minimum distance equal to shunt thickness for optimal heat dissipation

No. parallel shunts	Derating coefficient
2	1,8
3	2,5
4	3,2
5	3,9

Example: cross-section 1000 mm² with ΔT= 50°C
1 shunt = In 2122 A
3 parallel shunts In= 2122 x 2.5 = 5305 A

TECHNICAL FEATURES

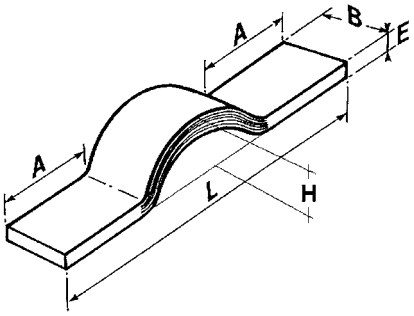
Tinned copper Cu-ETP UNI 5649-71 (red copper upon request)
Standard wire 0.20 mm (0.05 to 0.15 mm upon request)
Max. working temperature: 105°C
Terminals made in tinned copper tube, pressed at high density.
Punching upon request.

Ampacity table based on the ΔT temperature rise

Sect. (mm²)	In (A)	
	ΔT 30°C	ΔT 50°C
100	339	448
120	373	496
150	427	566
200	534	707
250	631	837
300	695	920
400	827	1097
500	889	1180
600	1067	1415
800	1335	1768
1000	1601	2122
1200	1923	2547

Laminated power shunts

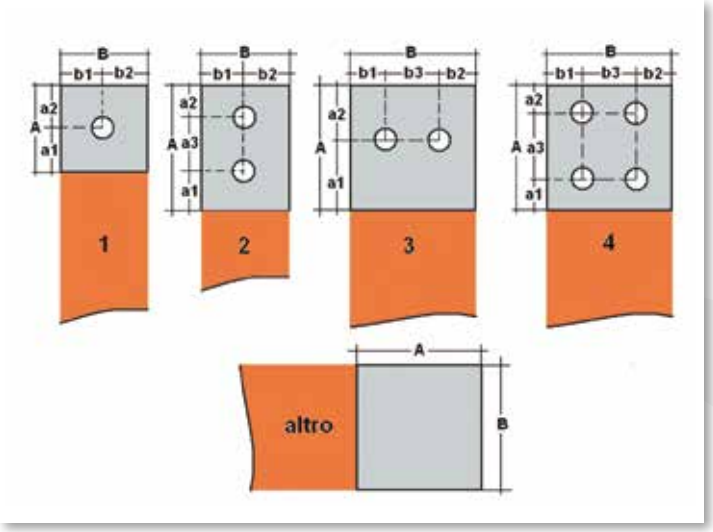
Make to order production



TECHNICAL FEATURES

Thickness from 0.1 mm
Red copper, tinned or silver-plated terminals
Press-welded or riveted terminals
Punching upon request
Width from 20 to 200 mm
Terminal thickness from 3 to 20 mm
Cross-sections from 60 to 4000 mm²

CONSTRUCTION CHARACTERISTICS AND DIMENSIONS



TERMINAL TYPE: _____

A = _____ mm
a1 = _____ mm
a2 = _____ mm
a3 = _____ mm

B= _____ mm
b1 = _____ mm
b2 = _____ mm
b3 = _____ mm

Ø holes = _____ mm No._____ holes

Terminal thickness _____ mm

SHUNT MATERIAL

Conductor type:

COPPER ☐ Red ☐ Tinned

ALUMINIUM ☐

Insulation ☐ Yes ☐ No

Insulation type:

_____

_____

COPPER BRAID

Standard wire 0, _____ mm

☐ Flat ☐ Round
☐ Pressed copper tube terminals
☐ Red copper terminals
☐ Tinned copper terminals
☐ Aluminium terminals

LAMINATED

No. Laminates _____
Laminate thickness 0, _____ mm
☐ Press-welded terminals
☐ Riveted terminals
☐ Red copper terminals
☐ Tinned copper terminals
☐ Aluminium terminals

Nominal ampacity _____ A ☐ AC ☐ DC

Cross-section _____ mm^2

Total length _____ mm.

Please, enclose drawing or sketch of the detail to produce

Requested by:

Company:	Referent Mr.
Address:	City:
Tel.:	Fax:
e-mail:	@

Please, FAX to number +39.02.45.70.56.73 or E-mail to info@teknomega.it
web site: www.teknomega.com

LIST OF ALPHANUMERIC CODES

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BAP2000	BAP 20x10x2000	30
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BAP2020	BAP 60x10x2000	30
BAP2025	BAP 80x10x2000	30
BAP2030	BAP 100x10x2000	30
BAP2035	BAP 120x10x2000	30
BAP4000	BAP 20x10x4000	30
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