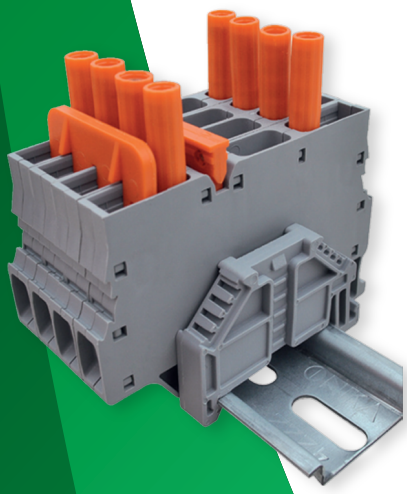
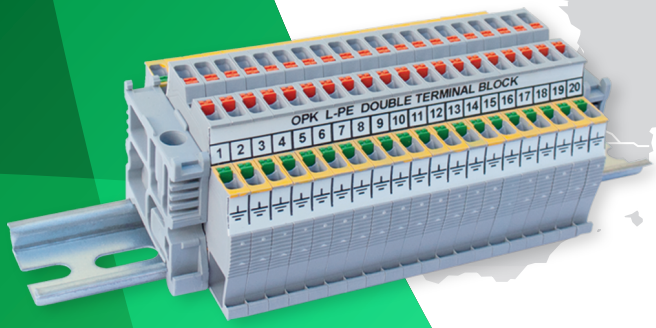
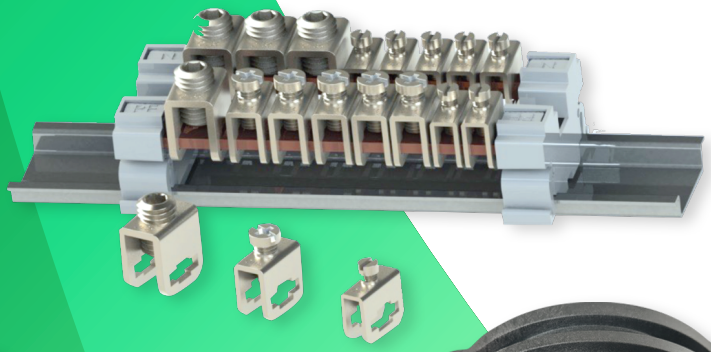
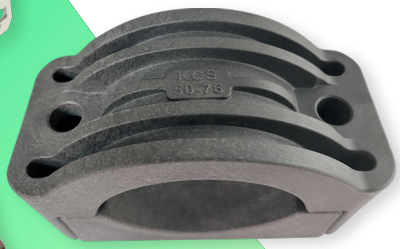
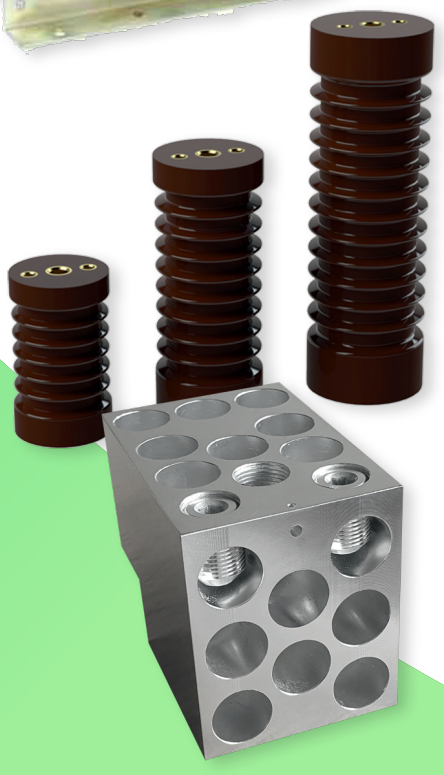
EA2ENERGY







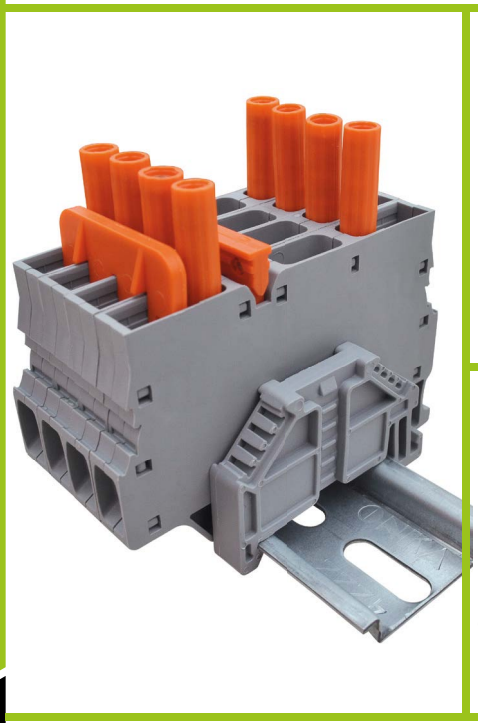


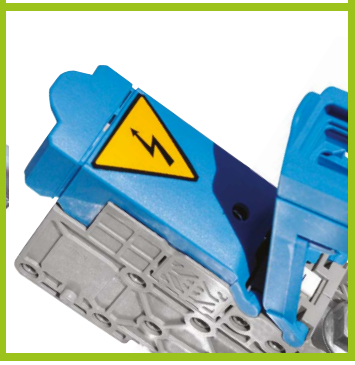
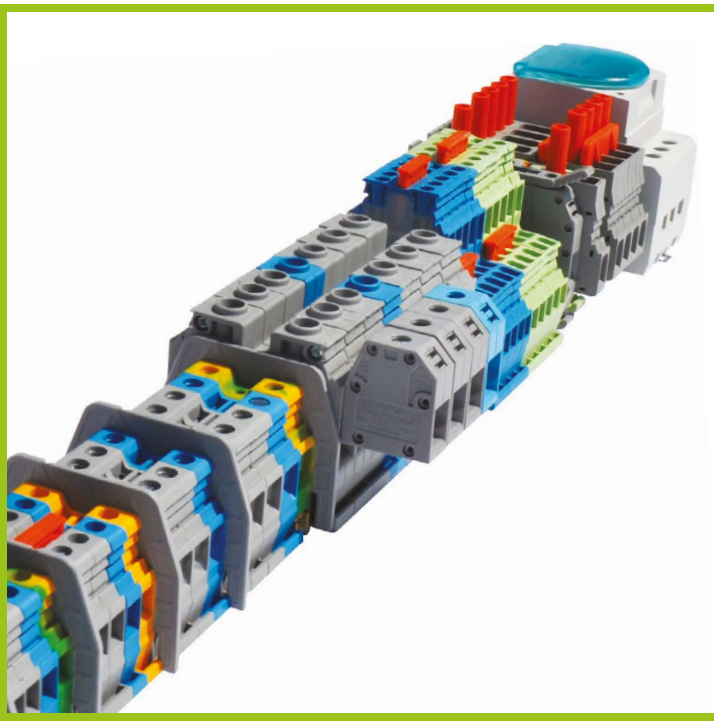


PRODUCT CATALOGUE 2022

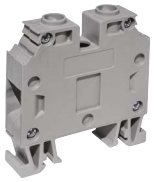
INDEX

MRK SERIES SCREWED RAIL TERMINAL BLOCKS



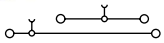



MRK SERIES SCREWED TYPE RAIL TERMINAL BLOCKS


CODE	DESCRIPTIONS	VOLTAGE	CURRENT	BOX
1002	MRK-1,5 mm²	750 V	17,5 A	100
1012	MRK-2,5 mm²	750 V	24 A	100
1022	MRK-4 mm²	750 V	32 A	100
1032	MRK-6 mm²	750 V	41 A	100
1042	MRK - 10 mm²	750 V	57 A	100
1132	MRK - 16 mm²	750 V	76 A	50
1142	MRK - 35 mm²	750 V	125 A	30

MRK SERIES SCREWED DOUBLE RAIL TERMINAL BLOCKS

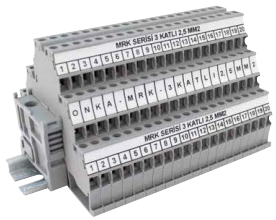
CODE	DESCRIPTIONS	VOLTAGE	CURRENT	BOX
1612	MRK-C 2,5 mm²	750 V	24 A	50
1652	MRK-C 4 mm²	750 V	32 A	50

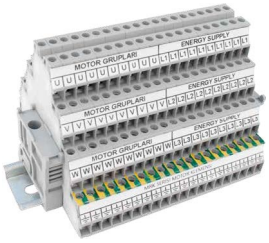
MRK SERIES COLOUR CODES

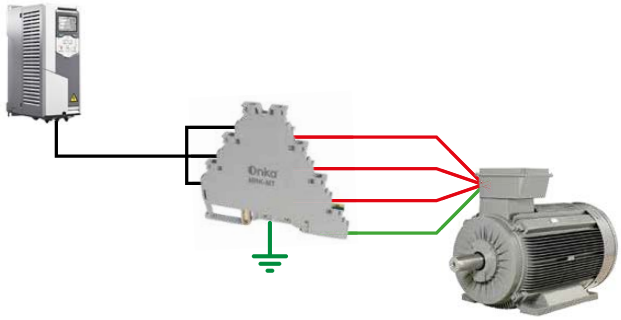
1001 the last digit of this code refers to product colour. To choose product colour you can use the colour codes next.

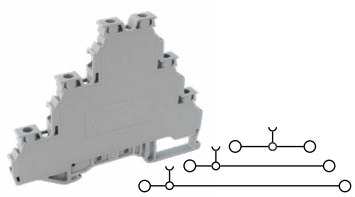
MINT GREEN	1	GREY	2	BLUE	5	YELLOW	8
	PRIMARY COLOR	CREAM	3	BROWN	6	GREEN	9
		BLACK	4	RED	7		

MRK SERIES TRIPLE SCREW CONNECTION RAIL TERMINAL BLOCKS

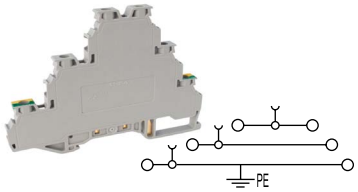




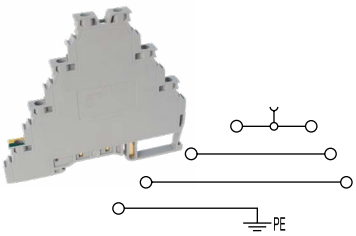




CODE	DESCRIPTIONS	VOLTAGE	CURRENT	BOX
1010425	MRK - 2,5 mm² Triple Level Screw Connection Rail Terminal Block - Grey	750 V	24 A	50



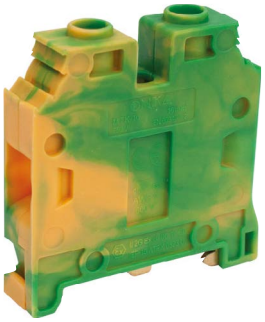
CODE	DESCRIPTIONS	VOLTAGE	CURRENT	BOX
1010414	MRK - 2,5 mm² Triple Level Screw Connection Earth Rail Terminal Block - Grey	750 V	24 A	50



CODE	DESCRIPTIONS	VOLTAGE	CURRENT	BOX
1010412	MRK - 2,5 mm² Screw Connection Motor Terminal Block (3 Levels+Earth) Grey	750 V	24 A	50

CODE	DESCRIPTIONS	COLOUR	BOX
1060206	MRK - 3 Layer upper bridge 2,5 x 2	ORANGE	100
1060207	MRK - 3 Layer upper bridge 2,5 x 3		100
1060208	MRK - 3 Layer upper bridge 2,5 x 4		75
1060209	MRK - 3 Layer upper bridge 2,5 x 10		30
1060210	MRK - 3 Layer upper bridge 2,5 x 20		20

MRK SERIES SCREWED EARTH RAIL TERMINAL BLOCKS



CODE	DESCRIPTIONS	VOLTAGE	CURRENT	BOX
1291	MTK - 2,5 mm²	750 V	24 A	100
1293	MTK - 4 mm²	750 V	32 A	100
1294	MTK - 10 mm²	750 V	57 A	100
1295	MTK - 16 mm²	750 V	76 A	50
1296	MTK - 35 mm²	750 V	125 A	30

MRK SERIES SCREWED FUSED RAIL TERMINAL BLOCKS

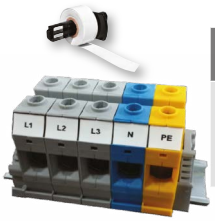
CODE	SECTION	DESCRIPTIONS	CURRENT	BOX
1322	MRK-S 6 mm²	Empty	6.3 A	100
1332	MRK-S 6 mm²	With Busbar	6.3 A	100
1352	MRK-S 6 mm²	24 V AC DC LED	6.3 A	100
1372	MRK-S 6 mm²	48 V AC DC LED	6.3 A	100
1392	MRK-S 6 mm²	110 V AC DC LED	6.3 A	100
1402	MRK-S 6 mm²	220 V AC DC LED	6.3 A	100

* Colours are avaiable upon request.

GLASS FUSE

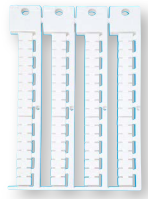
CODE	DESCRIPTIONS	BOX
WE-FS-52	5x20 mm Glass Fuse (0.2...10A Please inform amp.)	100

DOUBLE LABEL TYPE



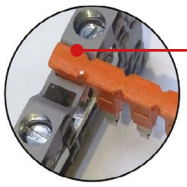
CODE	DESCRIPTIONS	BOX
7301	11 mm x 2 x 20 m Double Label Type	2m x 2

NUMBERING ACCESSORIES

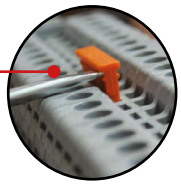


CODE	DESCRIPTIONS	BOX
9540	OD5-5 Printless	500
9541	OD5-5B Printed	500
9770	OD10-6 Printless	300
9771	OD10-6B Printed	300
5443	OD10-5P Combined Label Printless (For 1,5mm² terminal blocks)	80
5444	OD10-5P Combined Label Printed (For 1,5mm² terminal blocks)	880
4440	OD10-6P Combined Label Printless (For 2,5mm² terminal blocks)	720
4441	OD10-6P Combined Label Printed (For 2,5mm² terminal blocks)	720
4442	OD10-6P One by one plucked label marker printless (For 2,5mm² terminal blocks)	720
4443	OD10-6P One by one plucked label marker printed (For 2,5mm² terminal blocks)	720
4390	OD10-6P Combined label printless (For 4mm² terminal blocks)	640
4391	OD10-6P Combined label printed (For 4mm² terminal blocks)	640
2630	OD10-8P Combined label printless (For 6-10mm² bigger sizes terminal blocks)	560
2631	OD10-8P Combined label printed (For 6-10mm² bigger sizes terminal blocks)	560

MRK TYPE CROSS CONNECTIONS

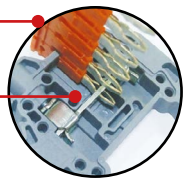


The metal parts can not be certainly dissolved in the case of the plastic isolation part's monolithic.



It can be easily removed with the screwdriver in the case of the notch over the bridge.

• It can be cutted in the middle of the comb bridge (example 10 and 20 pin bridges).



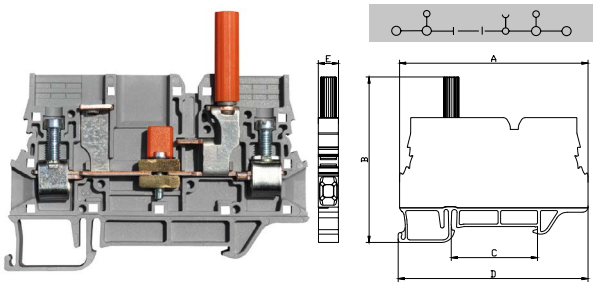
It is provided the bridge to the terminal within the plastic parts.

In the case of the pin's curved and diagonal structure it can be touched from 4 points to copper busbar.

All 2,5 mm² and 4 mm² cross connections can be both used for MRK and OPK Series.

COLOUR	CODE	TYPE	BOX
ORANGE	**1920**	1.5x2	100
	1921	1.5x3	100
	1922	1.5x4	100
	1923	1.5x10	30
	1924	1.5x20	20
	1925	2.5x2	100
	1926	2.5x3	100
	1927	2.5x4	75
	1928	2.5x10	30
	1929	2.5x20	20
	1930	4x2	100
	1931	4x3	50
	1932	4x4	50
	1933	4x10	30
	1934	4x20	20
	1935	6x2	100
	1936	6x3	50
	1937	6x4	50
	1938	6x10	15
	1939	6x20	10
	1940	10x2	100
	1941	10x3	50
	1942	10x4	50
	1943	10x10	15
	1944	10x20	10

MRK TEST DISCONNECT TERMINAL BLOCK (6mm²)



Dimensions (mm)	A	B	C	D	E
	75,5	66,3	34,5	76	8,1

MATERIAL	
Body	PA6.6
Bridge	Copper
Contact	CK45 Steel
Screw	Steel
Temp.	-40 ºC, +140 ºC
Cable Strip L.	12 mm
Torque	0,8 Nm

DATA	TSE / CE
Voltage	750 V
Current	41 A
Section	6 mm²
Norm	EN-60947-7-1

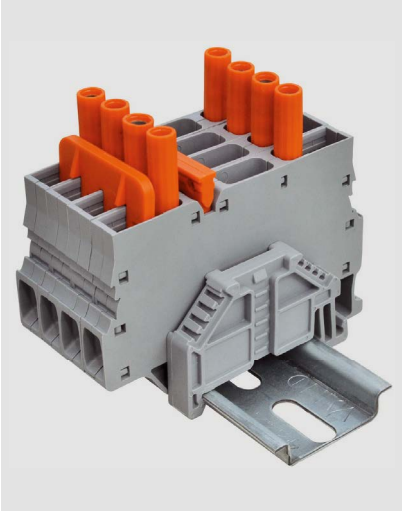
PRODUCT OPTIONS

	Order No.	Colour	Pcs
Without test socket 	1285	Grey	75
Single test socket 	1281	Grey	75
Double test socket 	1283	Grey	75

ACCESSORIES

	Order No.	Section	Pcs
Standard plug-in bridge 	1935	6 mm² / 2 Poles	100
	1936	6 mm² / 3 Poles	50
	1937	6 mm² / 4 Poles	50
	1938	6 mm² / 10 Poles	15
	1939	6 mm² / 20 Poles	10
90° Fork type plug-in bridge 	1970	6 mm² / 2 Poles	10
	1971	6 mm² / 3 Poles	10
	1972	6 mm² / 4 Poles	10
	1973	6 mm² / 6 Poles	10
	1974	6 mm² / 10 Poles	10
Test socket 	1280		10
Stopper	1202, 1222, 1212, 1232		
Marking	9770 / 2630 / 4442 / 9540 / 7301		

FEATURES



- Test disconnect terminal block is produced with 3 options; without test socket, single test socket and double test socket.
- It creates the possibility to test through touch-proof test sockets by using the test plugs.
- Without disconneting the cables, the enegy connection can be cut with the screw disconnect slide in the main body.
- It creates the possibility to test as groups with the 90° fork type plug-in bridge that can be used directly with test sockets.
- Standart MRK6 plug-in bridge can be used for this product optionally.
- It is aimed to mount the product properly with its special leg design.
- It is appropriatery designed to use with the existing OD 5, OD 10 dekafixes and the Roll Labelling.

MRK SCREWED TEST CONNECTOR (6mm²)

CODE	DESCRIPTIONS	BOX
1316	Double expulsive 750V, 41A Grey	100

SCREWLESS END BRACKET

CODE	DESCRIPTIONS	BOX
1202	Screwless End Bracket	100

GROUP MARKER

CODE	DESCRIPTIONS	BOX
1482	Group Marker	100

MINI END BRACKET

CODE	DESCRIPTIONS	BOX
1222	Mini End Bracket	100

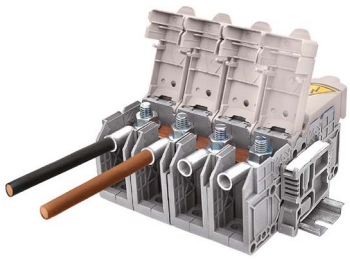
BIG END BRACKET

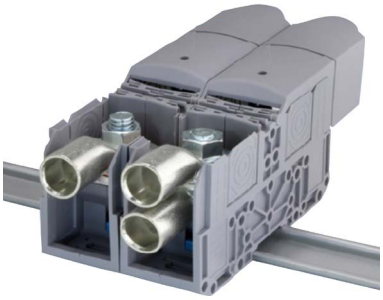
CODE	DESCRIPTIONS	BOX
1212	Big End Bracket	100

END BRACKET WITH GROUP STICKER

CODE	DESCRIPTIONS	BOX
1232	End Bracket with Group Sticker	100

MRK SERIES STUD TERMINAL BLOCK FOR CABLE LUGS (WITH COVER)

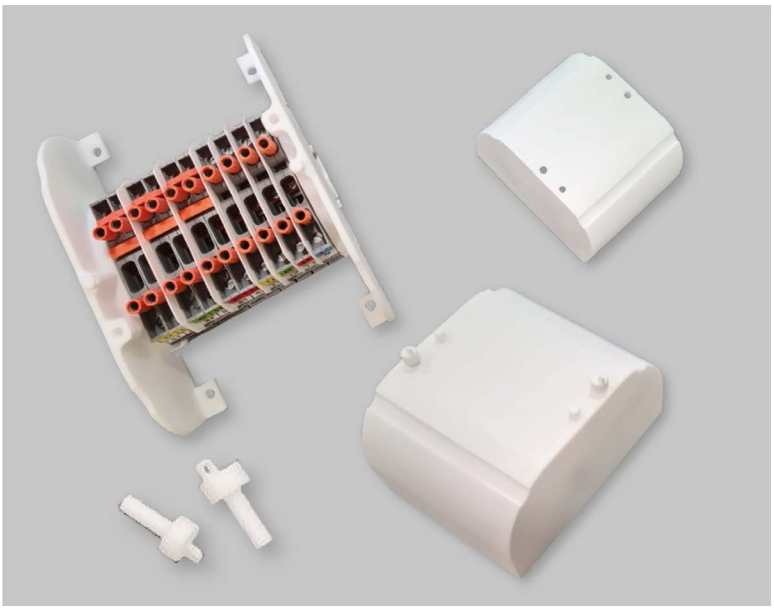




CODE	DESCRIPTIONS	VOLTAGE	CURRENT	BOX		
2302	25 mm²	1000 V	101 A	10	EA 25-2	EA 25-3
2322	35 mm²	1000 V	125 A	10	EA 35-2	EA 35-3
2342	50 mm²	1000 V	150 A	10	EA 50-2	EA 50-3
2362	70 mm²	1000 V	192 A	10	EA 70-2	EA 70-3
2382	95 mm²	1000 V	232 A	10	EA 95-2	EA 95-3
2402	120 mm²	1000 V	269 A	5	EA 120-2	EA 120-3
2422	150 mm²	1000 V	309 A	5	EA 150-2	EA 150-3
2442	185 mm²	1000 V	353 A	5	EA 185-2	EA 185-3
2462	240 mm²	1000 V	415 A	5	EA 240-2	EA 240-3

	CODE	DESCRIPTIONS	QTY / TABLET
	**2473**	Ready Warning Signs, Triangle Edg. L 25 mm	132
	**2474**	Neutral Signs, Triangle Edg. L 25 mm	132
	**2477**	Earth Signs, Triangle Edg. L 25 mm	132
	**2478**	Phase Signs, Triangle Edg. L 25 mm	132

HIGH SECURITY METER TESTING UNITS

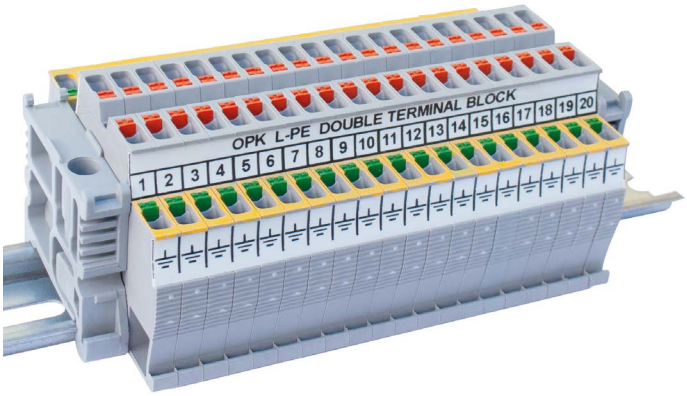


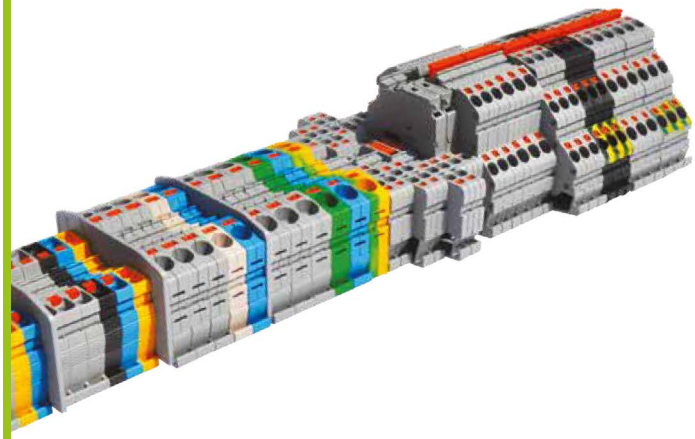
Coming Soon

* Custom module production is available upon request

CODE	DESCRIPTIONS
1845	Cover Profile (Transparent) mt.
1846	Cover Profile (Colored) mt.
1847	Side Support Component
1848	Resealing Apparatus
1849	10 Module with transparent cover
1850	10 Module with coloured cover

OPK SERIES PUSH-IN TYPE TERMINAL BLOCKS

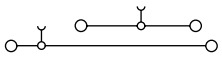


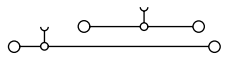


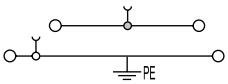
Note: The insulated terminals suggested to be used within OPK series terminal blocks.

OPK SERIES PUSH-IN TYPE TERMINAL BLOCKS

CODE	DESCRIPTIONS	VOLTAGE	CURRENT	BOX
1502	OPK - 2,5 mm²	750 V	24 A	100
1512	OPK - 4 mm²	750 V	32 A	100
1522	OPK - 6 mm²	750 V	41 A	100
1532	OPK - 10 mm²	750 V	57 A	100

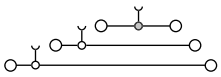






OPK SERIES PUSH-IN TYPE TERMINAL BLOCKS (DOUBLE)

CODE	DESCRIPTIONS	VOLTAGE	CURRENT	BOX
1020441	OPK C 2.5 mm²	750 V	24 A	50
1020495	OPK C 4 mm²	750 V	32 A	50
1020432	OPK C 2.5 mm² EARTH	750 V	24 A	50
1020436	OPK C 4 mm² EARTH	750 V	32 A	50



OPK SERIES PUSH-IN TYPE TERMINAL BLOCKS (TRIPLE)

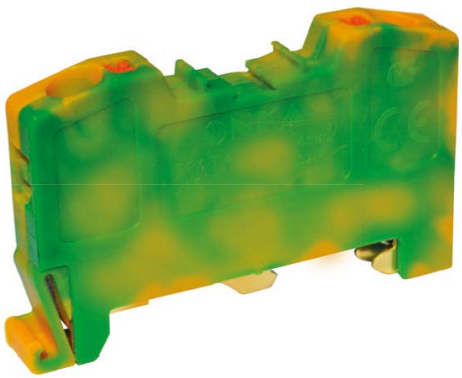
CODE	DESCRIPTIONS	VOLTAGE	CURRENT	BOX
1852	OPK - 3 2,5 mm²	500 V	24 A	50
1872	OPK - 3 2,5 mm² Earth	500 V	24 A	50
1882	OPK - 3 4 mm²	500 V	32 A	50
1902	OPK - 3 4 mm² Earth	500 V	32 A	50

OPK SERIES COLOUR CODES

1001 the last digit of this code refers to product colour. To choose product colour you can use the colour codes next.

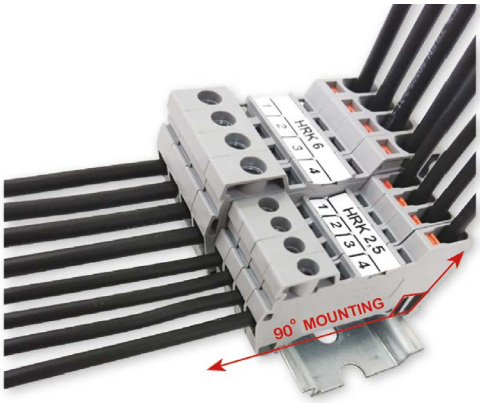
MINT GREEN	1	GREY	2	BLUE	5	YELLOW	8
	PRIMARY COLOR	CREAM	3	BROWN	6	GREEN	9
		BLACK	4	RED	7		

OPK PUSH-IN TYPE EARTH TERMINAL BLOCKS



CODE	DESCRIPTION	V	CURRENT	BOX
1199	OPK-T 4 mm²	750 V	32 A	100
1200	OPK-T 10 mm²	750 V	57 A	100

HRK HYBRID CONNECTION RAIL TERMINAL BLOCKS



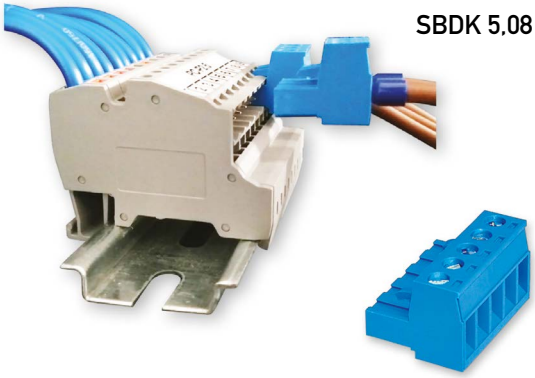
CODE	DESCRIPTIONS	VOLTAGE / CURRENT (V/A)	BOX
1040002	HRK 2,5mm² HYBRID TERMINAL BLOCK	750 V / 24 A	100
1040012	HRK 6mm² HYBRID TERMINAL BLOCK	750 V / 41 A	100

PUSH-IN TERMINAL BLOCK FOR PCB CONNECTION

PC-P 2,5	
Code:	1020302

SOCKET TERMINAL FEMALE 5,08 MM

SBDK 5,08



PIN NUMBER	Blue Order No.	Green Order No.	Box Pcs.
2	10.202	11.202	200
3	10.203	11.203	100
4	10.204	11.204	100
5	10.205	11.205	100
6	10.206	11.206	100
7	10.207	11.207	100
8	10.208	11.208	100
9	10.209	11.209	100
10	10.210	11.210	50
11	10.211	11.211	50
12	10.212	11.212	50

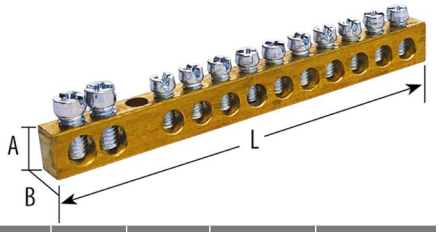
OPK TYPE CROSS CONNECTIONS STICKER

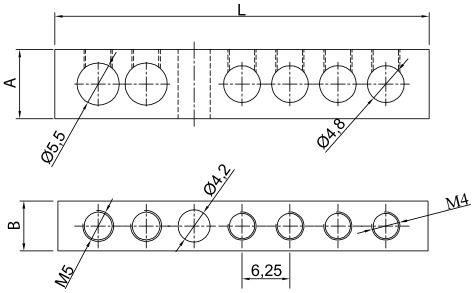
MATERIAL	
Isolation	PA 6.6
Body	Brass
Covering	Tin

Note: All 1,5 mm2, 2,5 mm2 and 4 mm2 cross connections can be both used for MRK and OPK Series.

COLOUR	CODE	TYPE	PCS
Orange	**1920**	1,5 x 2	100
Orange	**1921**	1,5 x 3	100
Orange	**1922**	1,5 x 4	100
Orange	**1923**	1,5 x 10	30
Orange	**1924**	1,5 x 20	20
Orange	**1925**	2,5 x 2	100
Orange	**1926**	2,5 x 3	100
Orange	**1927**	2,5 x 4	75
Orange	**1928**	2,5 x 10	30
Orange	**1929**	2,5 x 20	20
Orange	**1930**	4 x 2	100
Orange	**1931**	4 x 3	100
Orange	**1932**	4 x 4	50
Orange	**1933**	4 x 10	30
Orange	**1934**	4 x 20	20
Red	**1945**	6 x 2	100
Red	**1946**	6 x 3	50
Red	**1947**	6 x 4	50
Red	**1948**	6 x 10	15
Red	**1949**	6 x 20	10
Red	**1950**	10 x 2	100
Red	**1951**	10 x 3	50
Red	**1952**	10 x 4	50
Red	**1953**	10 x 10	15
Red	**1954**	10 x 20	10
Red	**1955**	16 x 2	10
Red	**1956**	16 x 3	10
Red	**1957**	16 x 4	10
Red	**1958**	16 x 10	10
Red	**1959**	35 x 2	10
Red	**1960**	35 x 3	10
Red	**1961**	35 x 4	10
Red	**1962**	35 x 10	10

SLOTTED GROUNDED PANEL TERMINAL CONNECTORS 80 A (6.5 x 9 mm²)





* Custom production available upon request.

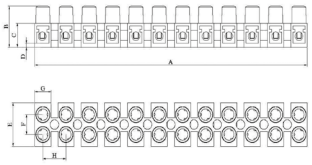
CODE	DESCRIPTIONS	A	B	L ± 2	Pcs.Box
1080101	2/3 = 5 Holes	9	6,5	42	50
1080102	2/5 = 7 Holes	9	6,5	54	50
1080103	2/8 = 10 Holes	9	6,5	73	50
1080104	2/10 = 12 Holes	9	6,5	86	50
1080105	2/13 = 15 Holes	9	6,5	105	50
1080106	2/20 = 22 Holes	9	6,5	148	50
1080107	2/40 = 42 Holes	9	6,5	285	50
1080108	2/60 = 62 Holes	9	6,5	410	50
1080109	2/80 = 82 Holes	9	6,5	535	50
1080110	1 meter 159 Holes	9	6,5	1000	50

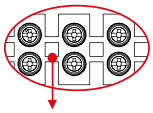
MAX. CABLE SECTION			
INCOMING		OUTGOING	
With Terminal	Without Terminal	With Terminal	Without Terminal
10	16	6	10

*Multi Core Cables should be used with a Cord End Terminal

POLYAMIDE TERMINAL STRIPS (V2)

MATERIAL	
Isolation Material	PA
Contact	CK45 Steel
Connection Type	Screw / Steel
Norm	EN-60998-2-1





Note: For No.1, No.2 and No.3 terminal strips The mounting hole in the center is produced as square.

CODE	DESCRIPTIONS	V	A	CONTINIOUS WORKING TEMPERATURE	BOX/ CARTON
5010	No. 0 0.75 - 1.5 mm² , 12 Poles	400	17.5	140	100 / 1 400
5011	No. 1 2.5 - 4 mm² , 12 Poles	400	32	140	50 / 900
5012	No. 2 4 - 6 mm² , 12 Poles	400	41	140	50 / 600
5013	No. 3 6 - 10 mm² , 10 Poles	400	57	140	50 / 450
5014	No. 4 10 - 16 mm² , 6 Poles	500	76	140	50 / 300
5015	No. 5 16 - 25 mm² , 6 Poles	500	101	140	50 / 250
5016	No. 3 With 3 Poles 6 - 10 mm²	400	57	140	50 / –

STEATITE TERMINALS

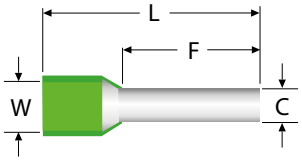
CODE	DESCRIPTIONS	PCS/BOX
5081	No. 0 / 2 Pole / 0.75 - 1.5 mm²	150
5082	No. 1 / 2 Pole / 2.5 - 4 mm²	150
5083	No. 1 / 3 Pole / 2.5 - 4 mm²	100
5084	No. 2 / 2 Pole / 4 - 6 mm²	100
5085	No. 2 / 3 Pole / 4 - 6 mm²	50
5086	No. 3 / 2 Pole / 6 - 10 mm²	50
5087	No. 3 / 3 Pole / 6 - 10 mm²	35
5088	No. 0 / 1 Pole / 0.75 - 1.5 mm²	400
5089	No. 1 / 1 Pole / 2.5 - 4 mm²	350
5090	No. 2 / 1 Pole / 4 - 6 mm²	200
5091	No. 3 / 1 Pole / 6 - 10 mm²	100
5093	No. 4 / 3 Pole (For Capacitor) / 10 - 16 mm²	20
5095	No. 5 / 2 Pole / 16 - 25 mm²	20
5094	No. 5 / 3 Pole (For Capacitor) / 16 - 25 mm²	20

MATERIAL	
Isolation Material	Steatite
Contact	CK45 Steel
Work Temperature	Max. 1100 °C
Connection Type	Screw / Steel
Norm	EN-60998-2-1

* **Uimp :** Impact strength voltage

INSULATED CORD END TERMINAL DIN NORM

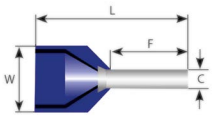
FRENCH NORM		CODE	CABLE CROSS SECTION (mm²)	F	L	C	W	PCS/ BOX
	ST	8005	0,34	8,0	12,0	0,80	1,9	1.000
	ST	8007	0,50	8,0	14,0	1,00	2,6	1.000
	ST	8010	0,75	8,0	14,0	1,20	2,8	1.000
	ST	8014	1,00	8,0	14,0	1,40	3,0	1.000
	ST	8017	1,50	8,0	14,0	1,70	3,5	500
	ST	8021	2,50	8,0	14,0	2,20	4,2	500
	ST	8025	4,00	10,0	17,0	2,80	4,8	200
	ST	8028	6,00	12,0	20,0	3,50	6,3	200
	ST	8030	10	12,0	22,0	4,50	7,6	100
	ST	8032	16	12,0	24,0	5,80	8,8	100
	ST	8034	25	16,0	30,0	7,30	11,2	50
	ST	8036	35	16,0	30,0	8,30	12,7	50
	ST	8039	50	20,0	36,0	10,30	15,0	25
	ST	8041	70	21,0	37,0	13,50	16,0	10
	ST	8042	95	25,0	44,0	14,70	18,0	10
	ST	8043	120	27,0	48,0	16,70	20,0	10
	ST	8044	150	32,0	58,0	19,50	23,0	10



INSULATED TWIN CORD AND TERMINAL DIN NORM 46228

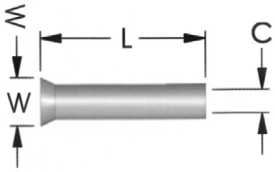
FRENCH NORM		CODE	CABLE CROSS SECTION (mm²)	F	L	C	W	PCS/ BOX
	ST	8161	2 x 0,50	8,0	15,0	1,5	2,5 / 4,7	500
	ST	8162	2 x 0,75	0,8	15,0	1,8	2,8 / 5,0	500
	ST	8164	2 x 1,0	8,0	15,0	2,05	3,4 / 5,4	500
	ST	8166	2 x 1,0	10,0	17,0	2,05	3,4 / 5,4	500
	ST	8168	2 x 2,5	10,0	18,5	2,8	4,2 / 7,8	250
	ST	8170	2 x 4,0	12,0	23,0	3,7	4,9 / 8,8	100
	ST	8171	2 x 6,0	14,0	26,0	4,8	6,9 / 10,0	100
	ST	8172	2 x 10,0	14,0	26,5	6,4	7,6 / 12,8	50
	ST	8173	2 x 16,0	14,0	31,5	8,3	9,6 / 18,6	50

Made of copper (nickel plated)
According to DIN 46228
Standart insulated with polyamide,
working temperature
–40 °C - 105 °C



NON - INSULATED CORD AND TERMINALS DIN 46228

CODE	CABLE CROSS SECTION (mm²)	L	C	W	PCS/ BOX
8100	0.50	6.0	1.0	2.1	1.000
8101	0.50	8.0	1.0	2.1	1.000
8102	0.50	10.0	1.0	2.1	1.000
8103	0.75	6.0	1.2	2.3	1.000
8104	0.75	8.0	1.2	2.3	1.000
8105	0.75	10.0	1.2	2.3	1.000
8107	1.0	8.0	1.4	2.5	1.000
8108	1.0	10.0	1.4	2.5	1.000
8109	1.0	12.0	1.4	2.5	1.000
8111	1.5	8.0	1.7	2.8	1.000
8112	1.5	10.0	1.7	2.8	1.000
8113	1.5	12.0	1.7	2.8	1.000
8115	2.5	8.0	2.2	3.4	1.000
8116	2.5	10.0	2.2	3.4	1.000
8117	2.5	12.0	2.2	3.4	1.000
8118	4.0	8.0	2.8	4.0	1000
8120	4.0	10.0	2.8	4.0	1000
8121	4.0	12.0	2.8	4.0	1000
8122	4.0	15.0	2.8	4.0	1000
8123	4.0	18.0	2.8	4.0	1000
8124	6.0	10.0	3.5	4.7	500
8125	6.0	12.0	3.5	4.7	500
8126	6.0	15.0	3.5	4.7	500

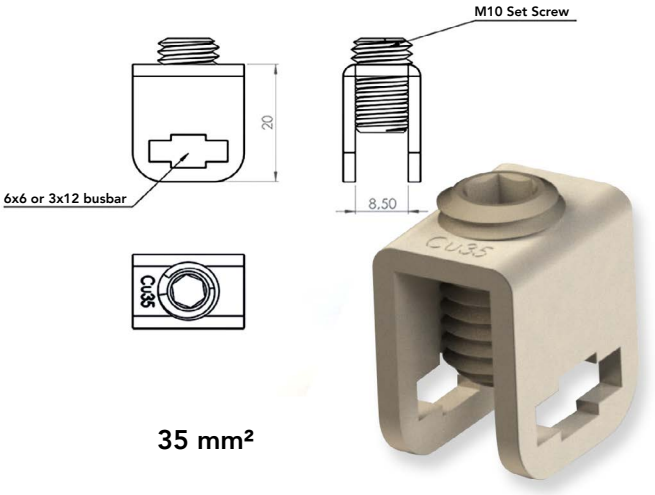


Made of copper (nickel plated)
according to
DIN 46228 standard

CODE	CABLE CROSS SECTION (mm²)	L	C	W	PCS/ BOX
8127	6.0	18.0	3.5	4.7	500
8128	10.0	12.0	4.5	5.8	200
8129	10.0	15.0	4.5	5.8	200
8130	10.0	18.0	4.5	5.8	200
8131	16.0	12.0	5.8	7.5	100
8132	16.0	15.0	5.8	7.5	100
8133	16.0	18.0	5.8	7.5	100
8134	25.0	15.0	7.3	9.5	100
8135	25.0	16.0	7.3	9.5	100
8136	25.0	18.0	7.3	9.5	100
8137	25.0	22.0	7.3	9.5	100
8138	35.0	16.0	8.3	11.0	75
8139	35.0	18.0	8.3	11.0	75
8140	35.0	20.0	8.3	11.0	75
8141	35.0	25.0	8.3	11.0	75
8142	50.0	18.0	10.3	13.0	25
8143	50.0	20.0	10.3	13.0	25
8144	50.0	25.0	10.3	13.0	25
8146	70.0	25.0	13.5	15.3	10
8148	95.0	25.0	14.7	16.6	10
8151	120.0	32.0	16.7	18.0	10
8153	150.0	32.0	19.5	21.5	10

PE / N TERMINALS

BUSBAR TERMINAL



35 mm²

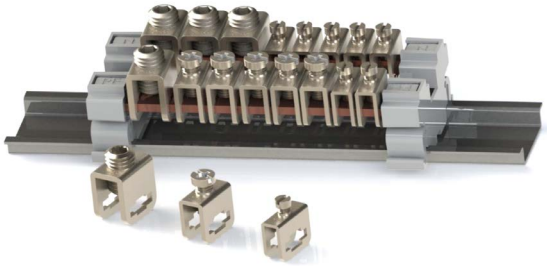
CODE	DESCRIPTIONS	Box
SMK 35	6x6 / 3x12 Copper clamps for 35mm2 cable / M10 Hexagon	150
SMK 16	6x6 / 3x12 Copper clamps for 16mm2 cable	-
SMK 6	6x6 / 3x12 Copper clamps for 6mm2 cable	-

Coming Soon

Coming Soon

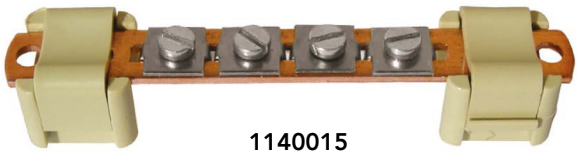
BUSBAR HOLDER

CODE	DESCRIPTIONS	Box
SBT	5x5 / 3x12 Copper holder (Srewable)	60

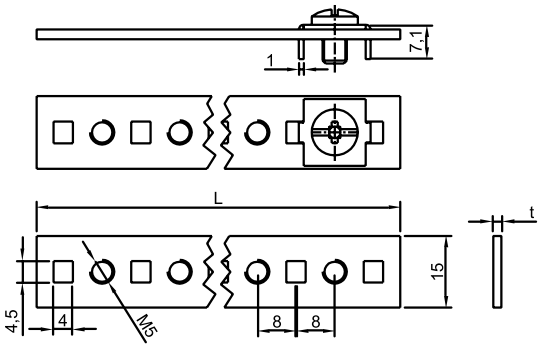


CODE	DESCRIPTIONS	Box
3x12x1000mm TP	3x12 Copper bar 1 meter (Tin Plated)	15m
3x10x1000mm TP	3x10 Copper bar 1 meter (Tin Plated)	20m

NEUTRAL GRAUNDED BUSBAR (SCREW-ON / FLAT COPPER)



1140015



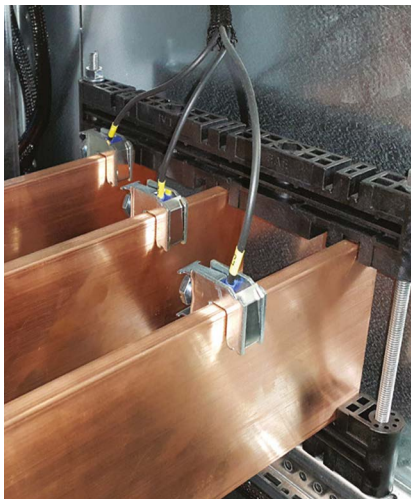
CODE	DESCRIPTIONS		Current (A)	t (mm)	L (mm)	Pcs. Box
	Screws	Dia				
1140001	31	1.5 x 15 mm	100	1,50	1000	25
1140002	62	1.5 x 15 mm	100	1,50	1000	25
1140003	31	2 x 15 mm	125	2	1000	25
1140004	62	2 x 15 mm	125	2	1000	25
1140005	31	3 x 15 mm	150	2	1000	25
1140006	62	3 x 15 mm	150	2	1000	25
1140015	Busbar Support Suitable for 3x10 / 3x12 / 3x15 busbars					100

Note: Grey colour busbar support is available upon request.

16 mm² CONNECTION TERMINALS FOR Cu - BUSBARS (SPRING)

2140 2141

CODE	DESCRIPTIONS	BOX PCS
2140	SK16 F 5 Connection Terminals For Cu Bar 1.5 - 16 mm²	100
2141	SK16 F 10 Connection Terminals For Cu Bar 1.5 - 16 mm²	100

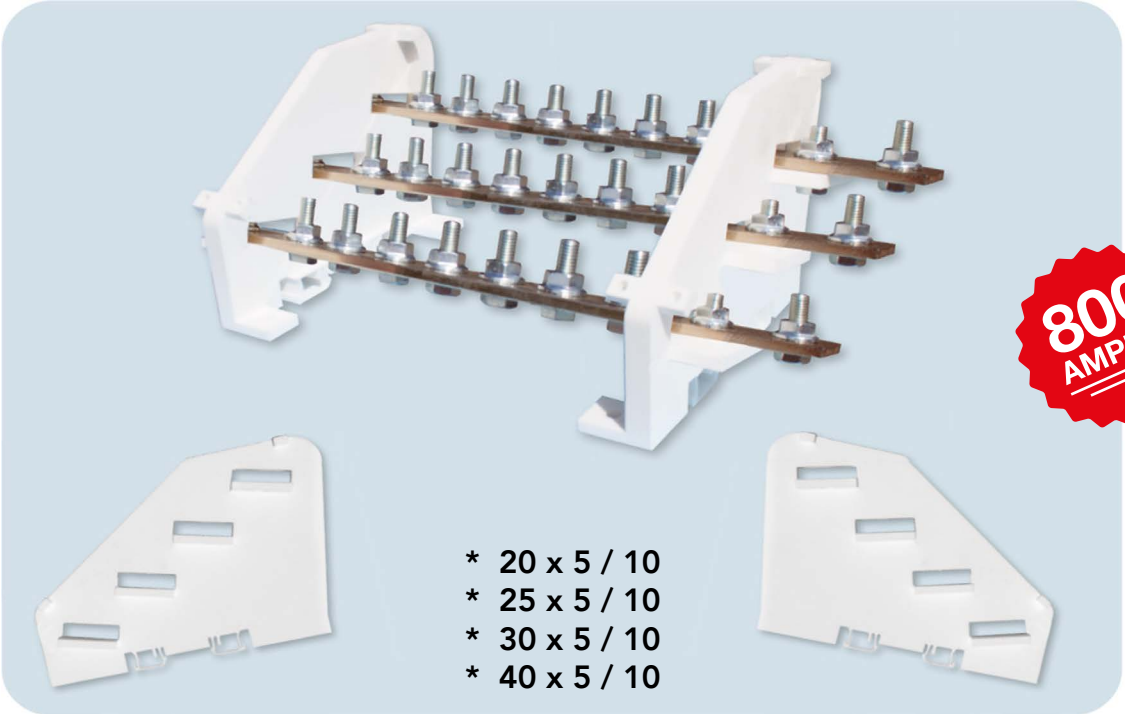


35 mm² CONNECTION TERMINALS FOR Cu - BUSBARS (SPRING)

2142 2143

CODE	DESCRIPTIONS	BOX PCS
2142	SK35 F 5 Connection Terminals For Cu Bar 1.5 - 35 mm²	50
2143	SK35 F 10 Connection Terminals For Cu Bar 1.5 - 35 mm²	50

FORMING INSULATOR (3/4 Pole - Max. 40x10 mm)



- UL94V0 incombustibility standard
- Ergonomic and compact structure.
- Developed design against short-circuit forces
- Easy assembly and operation solution in Form of 1-2-3-4
- Safe and aesthetic busbar

CODE	DESCRIPTIONS	BOX PCS
IRTPF-4003	3-Pole Forming Insulator (Max. 40x10)	1 SET
IRTPF-4004	4-Pole Forming Insulator (Max. 40x10)	1 SET

RAIL MOUNTING SOCKETS

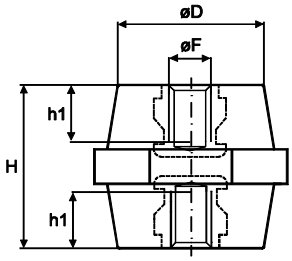
RAIL MOUNTING SOCKETS WITH COVER (16 A/250 V)

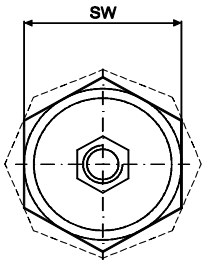
CODE	DESCRIPTIONS	SECTION	BOX / CARTON
7160	Inlet without LED	Max. 10 mm²	10 /120
7161	Inlet & Outlet without LED		
7162	Inlet with LED		
7163	Inlet & Outlet with LED		
7164	Inlet & UPS without LED		
7165	Inlet & Outlet & UPS without LED		
7166	Inlet & UPS with LED		
7167	Inlet & Outlet & UPS with LED		

LOW VOLTAGE STANDOFF INSULATORS

Technical Data

* Threads: steel zinc coated (upon request brass, stainless steel, 8.8 grade steel)
* Upon request: steel bolts



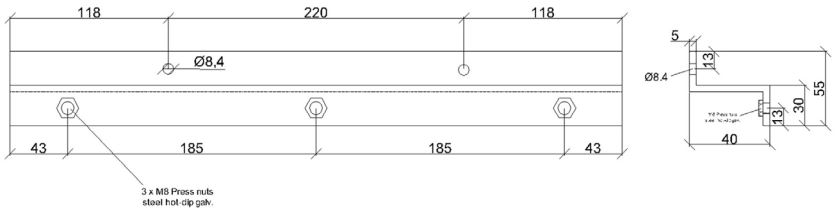


Part No.	Dimensions (mm)					Service Voltage ~kV	Test Voltage ~kV	Cantilever Strength kN	Tensile Strength kN	Max. Tightening Torque Nm	Torque Strength Nm	Weight kg/100 pcs.	Box Qty.
	H	øF	SW	øD	h1								
EA-201706	20	M6	Hex 17	15	5	0,6	3	1	2	3	10	1.25	100
EA-252205	25	M5	Hex 22	18	6	1	6	1	3	2.5	10	2.00	100
EA-252206		M6			6			1	3	4.5	15	2.00	
EA-303006	30	M6	Hex 30	26	6	1,5	10	3	6	12	20	5.40	80
EA-303008		M8			8			3	7	20	40	5.30	
EA-303010		M10			9			3	6	30	40	5.10	
EA-304008	30	M8	Hex 40	36	9	1,5	10	5	9	20	50	8.50	100
EA-353206	35	M6	Hex 32	28	8	1,5	12	4.5	8	12	20	7.00	100
EA-353208		M8			10			5	8	20	50	7.20	
EA-353210		M10			10			5	8	40	70	6.90	
EA-353508	35	M8	Hex 35	30	10	1,5	12	5	6.5	20	50	7.80	100
EA-353510		M10			10			5	7	40	75	8.00	
EA-354006	35	M6	Hex 40	35	8	1,5	12	4.5	8	12	20	8.60	100
EA-354008		M8			10			5	10	20	45	8.70	
EA-354010		M10			10			5	7	40	75	8.80	
EA-403006	40	M6	Hex 30	26	8	2	15	2	6	12	20	6.90	60
EA-403008		M8			10			3	9	16	45	7.00	
EA-403606	40	M6	Hex 36	32	8	2	15	4.5	6	12	20	10.60	100
EA-403608		M8			10			5	8	20	45	10.20	
EA-403610		M10			12			6	10	40	75	10.80	
EA-404006	40	M6	Hex 40	35	8	2	15	4.5	6	12	20	10.20	75
EA-404008		M8			10			5	11	20	50	10.70	
EA-404010		M10			12			6	10	40	75	11.50	
EA-404012		M12			11			7.5	11	40	90	11.80	
EA-404610	40	M10	Hex 46	40	12	2	15	8	11	40	80	14.00	50
EA-454608	45	M8	Hex 46	38	10	2	15	6	8	20	50	14.80	50
EA-454610		M10			12			8	10	40	90	15.30	
EA-454612		M12			15			8	11	40	100	16.00	
EA-503606	50	M6	Hex 36	29	8	2	15	4	9	12	20	10.50	80
EA-503608		M8			10		15	4.5	9	20	50	10.90	
EA-503610		M10			14		11	4.5	9	40	75	12.20	
EA-503612		M12			15			4.5	9	30	80	13.00	
EA-504010	50	M10	Hex 40	28	14	2	15	5	13	40	80	14.00	50
EA-505008	50	M8	Hex 50	42	10	2	15	6.5	11	20	50	18.50	50
EA-505010		M10			14			7	15	40	90	19.00	
EA-505012		M12			15			9	15	70	125	20.10	
EA-604010	60	M10	Hex 40	35	14	3	20	4.5	20	40	90	16.20	50
EA-605012	60	M12	Hex 50	42	18	3	15	8	20	70	140	26.00	32
EA-605508	60	M8	Hex 55	43	15	3	15	6	15	20	50	28.00	50
EA-605510		M10			14			7	18	40	90	28.20	
EA-605512		M12			20			10	22	70	140	27.20	
EA-634110	63	M10	Hex 41	31	15	3		6	15	40	90	16.00	50
EA-754610	75	M10	Hex 46	36	17	3	20	4	16	40	90	23.10	9
EA-754612		M12			20			7	12	70	125	25.00	
EA-1006510	100	M10	Hex 65	52	18	5	26	8	30	40	100	66.00	
EA-1006512		M12			18			9	30	70	140	64.80	
EA-1006516		M16			24			11	30	95	190	63.10	

SMC BUSBAR SUPPORTS

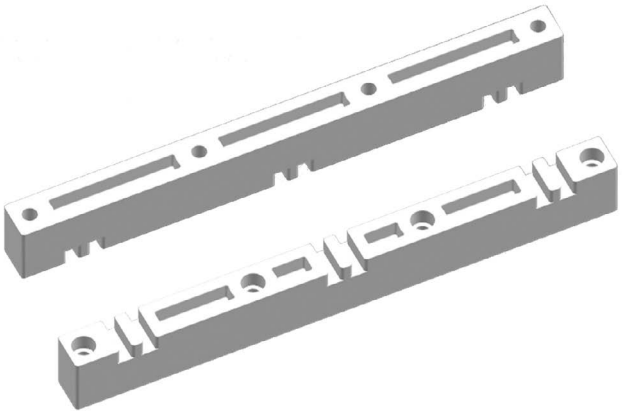
PROPERTIES

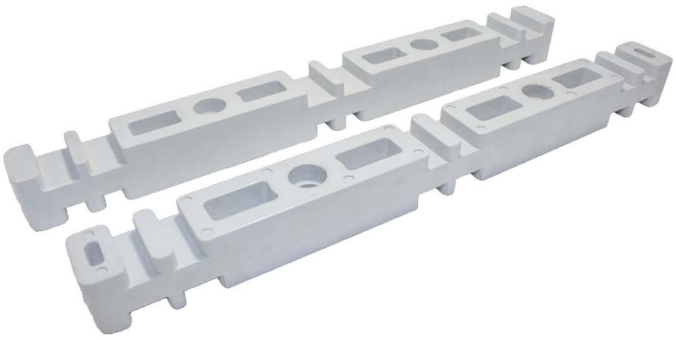
- Operational alternating current 1000 V
- Continuous current exceeding 4000 A
- Phase interval 185 mm
- Colour : RAL 7035
- Nuts : M8 Steel Zinc coated
- Made from GFRP - SMC

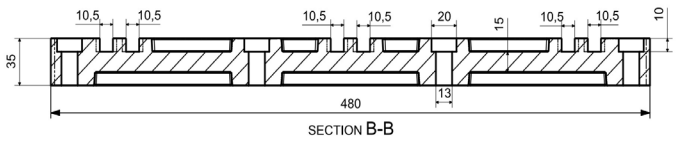


copper bars	bus bar system (mm) a	Icw (1s) (kA)
100x10	185	50
80x10	185	50
50x10	185	40
30x10	185	30

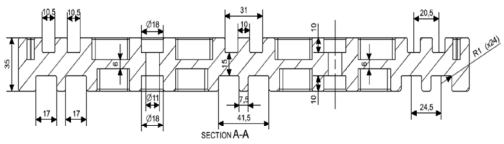
BUSBAR SUPPORTS

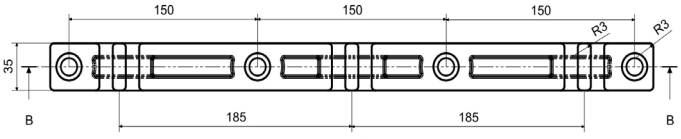




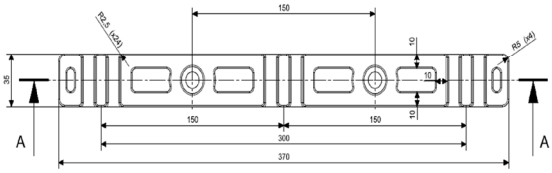


SECTION B-B





VIEW A



*Custom producint is available upon request.

CODE	Service Voltage ~(V)	Phase Distance	Number and Thickness of Busbars	Weight kg /pc.	Box Qty.
BT-185	1000	185 mm	2 x 10 mm	0.970	20 pcs.

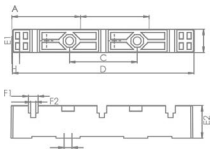
CODE	Service Voltage ~(V)	Phase Distance	Number and Thickness of Busbars	Weight kg /pc.	Box Qty.
BT-150	1000	150 mm	2x10 mm / 2x16,5 mm	0.572	20 pcs.

PLASTIC BUSBAR SUPPORTS

Low tension post insulators is made of non-flammable (V0) material. It is used for the same purpose as BMC insulators. It is more flexible than BMC insulators due to refraction rate is low. It's chemical characters are listed below:

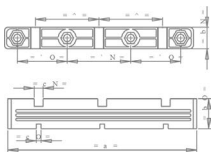
- *Fiber Glass reinforced poliamid (PA6) nonflamable, has 30% of fibers.*
- *Standart color: Black*
- *Nuts: Steel-zinc line. (Brass material can used if needed)*
- *Bolts: Cr3 8.8 steel bolt*

3x1F Support Insulator



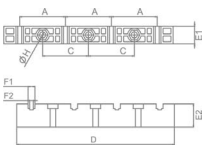
CODE	TYPE	Dimensions (mm)								Min Strenght kN	Box Qty
		A	C	D	E1	E2	F1	F2	H		
PLST1001	3x1F/ 5-10mm	74	73	196	25	34,5	10,5	5,5	Ø8,5	5	50

3x1F Support Insulator



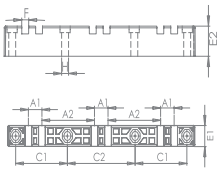
CODE	TYPE	Dimensions (mm)								Min Strenght kN	Box Qty
		A	C	D	E1	E2	F1	F2	H		
PLST1015	3x1F/ 5-10mm	74	74	58,14	220	25	35	10,5	Ø8,5	5	50

3x1F+N Support Insulator



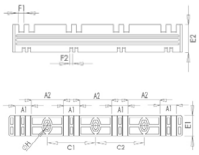
CODE	TYPE	Dimensions (mm)								Min Strenght kN	Box Qty
		A	C	D	E1	E2	F1	F2	H		
PLST1003	3x1F+N/ 5-10mm	65	65	240	25,5	35,0	10,5	5,5	Ø9	5	50

3x2F Support Insulator



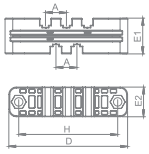
CODE	TYPE	Dimensions (mm)									Min Strenght kN	Box Qty
		A1	A2	C1	C2	D	E1	E2	F	H		
PLST1002	3x2F/ 10mm	20,5	81,3	80	105	290	25,0	34,5	10,5	Ø8,5	5	50

4x2F Support Insulator



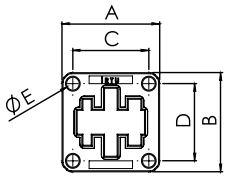
CODE	TYPE	Dimensions (mm)										Min Strenght kN	Box Qty
		A1	A2	C1	C2	D	E1	E2	F1	F2	H		
PLST1016	4x2F / 10mm 4x2F / 10mm	31	64	95	95	340	25,0	35	10,5	5,5	Ø8,5	5	50

1x2F/1x3F Support Insulator

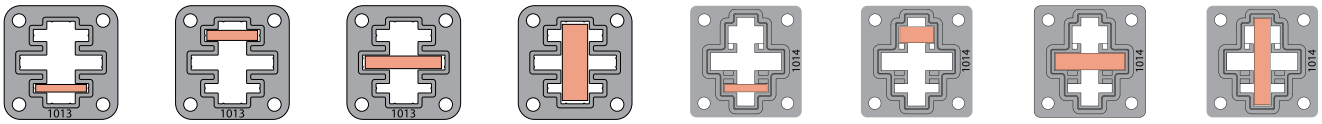


CODE	TYPE	Dimensions (mm)					Min Strenght kN	Box Qty
		A	D	H	E1	E2		
PLST1012	1x2F - 1x3F / 10mm	20,5	120	100	35	30	5	100

THROUGH WALL BUSHINGS



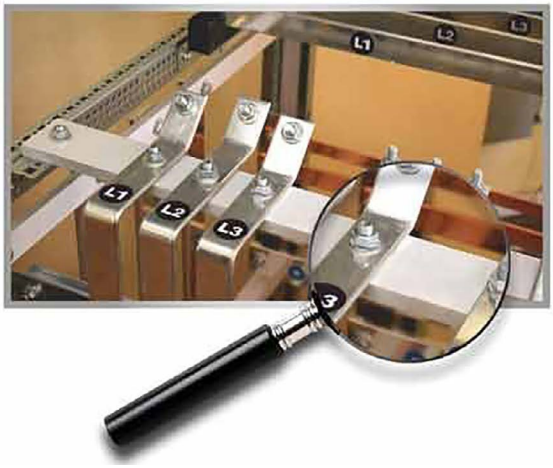
CODE	TYPE	Dimensions (mm)					Min Strenght kN	Box Qty
		A	B	C	D	E		
PLST1013	Bushing Insulators 20x5/20x10/40x10/50x10	45,0	45,0	35,0	35,0	5,80	5	100
PLST1014	Bushing Insulators 20x5/20x10/40x10/50x10	60,0	60,0	45,0	45,0	6,50	5	100



20 x 3 | 20 x 4 | 30 x 5 | 30 x 10 | 20 x 5 | 20 x 10 | 40 x 10 | 50 x 10

PROPERTIES	
Material	Glass Reinforced Polyamid 6.6
Conductor Temp	140 °C
Flamability	UL94-V0
Equipment Voltage U	690V
Insulation Voltage U	8 kV
Glow Wire	960 °C

FIBERGLASS

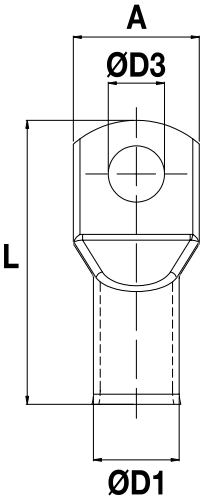


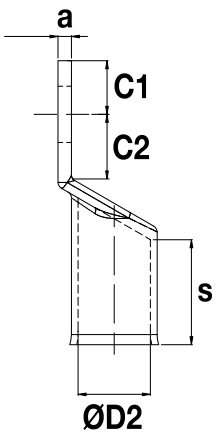
Glass mat and unsaturated polyester resin bulk, special laminated halogen-free UPGM 203 is used for many kinds of both electrical and mechanical applica tions. Due to its excellent mechanical and thermal qualities it is used in electrical switchboards , transformers and many more, where a Class F material is a must. The product complies with UL94 flame resistance test to V0, as well as having a tracking test. UPGM 203 can be manufactured with both SMC and Hand Lay-up method.

* Custom production is available upon request

CODE	DESCRIPTIONS	SIZE (mm)		
		Thickness	W	H
İRCEP038001200	Fiber Glass Polyester Plate	3	800	1200
İRCEP058001200		5	800	1200
İRCEP108001200		10	800	1200
İRCEP158001000		15	800	1200
İRCEP208001200		20	800	1200
İRCEP258001200		25	800	1200
İRCEP308001200		30	800	1200
İRCET030301200	Fiber Glass Polyester Wedge	3	30	1200
İRCET030401200		3	40	1200
İRCET030501200		3	50	1200
İRCET030601200		3	60	1200
İRCET050301200	Fiber Glass Polyester Wedge	5	30	1200
İRCET050401200		5	40	1200
İRCET050501200		5	50	1200
İRCET050601200		5	60	1200
İRCET100301200	Fiber Glass Polyester Wedge	10	30	1200
İRCET100401200		10	40	1200
İRCET100501200		10	50	1200
İRCET100601200		10	60	1200
İRCET150301200	Fiber Glass Polyester Wedge	15	30	1200
İRCET150401200		15	40	1200
İRCET150501200		15	50	1200
İRCET150601200		15	60	1200
İRCET200301200	Fiber Glass Polyester Wedge	20	30	1200
İRCET200401200		20	40	1200
İRCET200501200		20	50	1200
İRCET200601200		20	60	1200
İRCET250301200	Fiber Glass Polyester Wedge	25	30	1200
İRCET250401200		25	40	1200
İRCET250501200		25	50	1200
İRCET250601200		25	60	1200
İRCET300301200	Fiber Glass Polyester Wedge	30	30	1200
İRCET300401200		30	40	1200
İRCET300501200		30	50	1200
İRCET300601200		30	60	1200

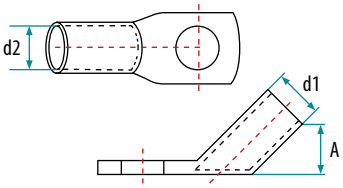
DIN NORM COPPER CABLE LUGS





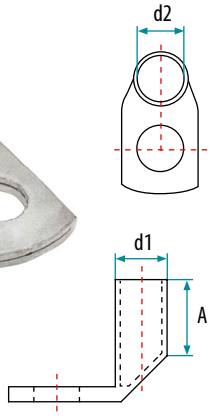
CABLE CROSS SECTION (mm²)	CODE	BOLT (Ø)	ØD1 (mm)	ØD2 (mm)	L (mm)	ØD3 (mm)	A (mm)	C1 (mm)	C2 (mm)	a (mm)	s (mm)	Pcs/Box
10	6052	M5	6,5	5	34	5,5	9,5	7	8,5	1,5	13	800
	6053	M6	6,5	5	34	6,5	9,5	7	8,5	1,5	13	
16	6054	M6	8,5	5,5	46	6,5	13	10	8	2	21	300
	6055	M8	8,5	5,5	46	8,5	13	10	10	2	21	
	6056	M10	8,5	5,5	46	10,5	13	10	12	2	21	
25	6057	M6	10	7	48	6,5	16	10	8	3	21	250
	6058	M8	10	7	48	8,5	16	10	10	3	21	
	6059	M10	10	7	48	10,5	16	10	12	3	21	
	6106	M12	10	7	48	13	16	10	13	3	21	
35	6061	M8	12,5	8,2	54	8,5	19	12	10	4,3	22	150
	6062	M10	12,5	8,2	54	10,5	19	12	12	4,3	22	
	6063	M12	12,5	8,2	54	13	19	12	13	4,3	22	
50	6064	M8	14,5	10	64	8,5	21,5	12	10	4,5	31	75
	6065	M10	14,5	10	64	10,5	21,5	12	12	4,5	31	
	6066	M12	14,5	10	64	13	21,5	12	13	4,5	31	
	6067	M16	14,5	10	64	17	21,5	12	16	4,5	31	
70	6068	M8	16,5	11,5	68	8,5	23,8	13	10	5	32	75
	6069	M10	16,5	11,5	68	10,5	23,8	13	12	5	32	
	6070	M12	16,5	11,5	68	13	23,8	13	13	5	32	
	6072	M16	16,5	11,5	68	17	23,8	13	16	5	32	
95	6074	M10	19	13,5	78,5	10,5	27	14	12	5,5	40	40
	6075	M12	19	13,5	78,5	13	27	14	14	5,5	40	
	6077	M16	19	13,5	78,5	17	27	14	16	5,5	40	
120	6078	M10	21	15,5	86	10,5	30	16,5	16	5,5	40	40
	6079	M12	21	15,5	86	13	30	16,5	16,5	5,5	40	
	6081	M16	21	15,5	86	17	30	16,5	20	5,5	40	
	6082	M20	21	15,5	86	20,5	30	16,5	22	5,5	40	
150	6083	M10	23,5	17	94	10,5	34	16	16	6,5	40	25
	6084	M12	23,5	17	94	13	34	16	17	6,5	40	
	6086	M16	23,5	17	94	17	34	16	20	6,5	40	
	6087	M20	23,5	17	94	20,5	34	16	22	6,5	40	
185	6088	M10	25,5	19	98	10,5	37	16	16	6,5	40	20
	6089	M12	25,5	19	98	13	37	16	17	6,5	40	
	6091	M16	25,5	19	98	17	37	16	20	6,5	40	
	6092	M20	25,5	19	98	20,5	37	16	22	6,5	40	
240	6094	M12	29	21,5	108	13	42	16	17	7,5	55	15
	6096	M16	29	21,5	108	17	42	16	20	7,5	55	
	6097	M20	29	21,5	108	20,5	42	16	22	7,5	55	
300	6098	M14	32	24,5	119	14,5	48	19	22	7,5	55	10
	6099	M16	32	24,5	119	17	48	19	22	7,5	55	
	6100	M20	32	24,5	119	20,5	48	19	22	7,5	55	
400	6101	M14	38,5	27,5	140	14,5	55	19	22	11	60	10
	6102	M16	38,5	27,5	140	17	55	19	22	11	60	
	6103	M20	38,5	27,5	140	20,5	55	19	22	11	60	
500	6104	M20	-	-	-	20,5	-	-	-	-	-	1
625	6105	M20	-	-	-	20,5	-	-	-	-	-	1

45° CABLE LUGS



CODE	METRIC (ø)	SECTION	INT. DIA (d1) mm	EXT. DIA (d2) mm	CABLE L. (A)	PCS/BOX
6304	M 5	6	4.00	5.50	9.50	800
6305	M 5/6	10	4.50	6.00	11.50	500
6306	M 6/8/10	16	5.50	7.50	12.50	300
6307	M 8/10	25	7.00	9.50	15.50	200
6308	M 8/10	35	8.50	11.00	17.00	125
6309	M 10/12	50	10.00	13.00	18.50	80
6310	M 10/12	70	11.50	14.50	22.00	60
6311	M 10/12/14	95	13.50	16.50	24.00	40
6312	M 10/12/14	120	14.50	18.00	27.00	30
6313	M 10/12/16	150	16.50	21.00	29.00	25
6314	M 10/12/16	185	18.50	23.00	32.00	20
6315	M 10/12/16	240	21.00	26.00	37.00	15
6316	M 12/16	300	23.50	28.50	39.00	8

90° CABLE LUGS



CODE	METRIC (ø)	SECTION	INT. DIA (d1) mm	EXT. DIA (d2) mm	CABLE L. (A)	PCS/BOX
6319	M 5	6	4.00	5.50	9.50	800
6320	M 5/6	10	4.50	6.00	11.50	500
6321	M 6/8/10	16	5.50	7.50	12.50	300
6322	M 8/10	25	7.00	9.50	15.50	200
6323	M 8/10	35	8.50	11.00	17.00	150
6324	M 10/12	50	10.00	13.00	18.50	80
6325	M 10/12	70	11.50	14.50	22.00	60
6326	M 10/12/14	95	13.50	16.50	24.00	50
6327	M 10/12/14	120	14.50	18.00	27.00	30
6328	M 10/12/16	150	16.50	21.00	29.00	25
6329	M 10/12/16	185	18.50	23.00	32.00	20
6330	M 10/12/16	240	21.00	26.00	37.00	15
6331	M 12/16	300	23.50	28.50	39.00	8

ACT SERIES UNIVERSAL CONNECTORS (Al/Cu)






CODE	ACT-050	ACT-095	ACT-150	ACT-240	ACT-300
Product Name	Universal connector 6-50 mm²	Universal connector 6-95 mm²	Universal connector 25-150 mm²	Universal connector 350-240 mm²	Universal connector 95-300 mm²
Nominal Current (IEC)	160 A (Cu) 145 A (Al)	160 A (Cu) 145 A (Al)	160 A (Cu) 145 A (Al)	160 A (Cu) 145 A (Al)	160 A (Cu) 145 A (Al)
Nominal Voltage (IEC)	690 V	690 V	690 V	690 V	690 V
Number of Pole	1 pcs	1 pcs	1 pcs	1 pcs	1 pcs
Max.Cross Section	50 mm²	50 mm²	50 mm²	50 mm²	50 mm²
Tightening torque	3,5 Nm (6-10 mm²) 12 Nm (16-50 mm²)	3,5 Nm (6-10 mm²) 12 Nm (16-50 mm²)	3,5 Nm (6-10 mm²) 12 Nm (16-50 mm²)	3,5 Nm (6-10 mm²) 12 Nm (16-50 mm²)	3,5 Nm (6-10 mm²) 12 Nm (16-50 mm²)
Weight	10 gr	10 gr	10 gr	10 gr	10 gr
Max. Operating Temp.	80 °C	80 °C	80 °C	80 °C	80 °C
Mounting	Aluminium Screw M10	Aluminium Screw M14	Aluminium Screw M16	Aluminium Screw M20	Aluminium Screw M20
Material	Aluminium	Aluminium	Aluminium	Aluminium	Aluminium
Surface	Tin Plated	Tin Plated	Tin Plated	Tin Plated	Tin Plated
Standarts	EN 61238	EN 61238	EN 61238	EN 61238	EN 61238

Al/Cu DEVICE CONNECTOR

* Our aluminium connectors are in accordance with the Standard IEC EN 61238-1 and IEC EN 60947-7-1

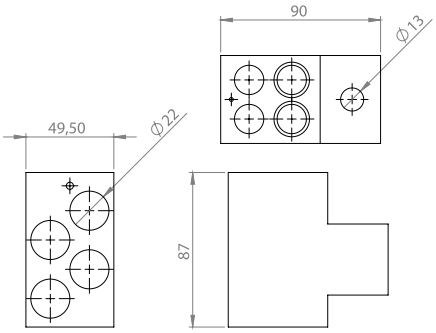
* Aluminium 6005, plated with tin. Compatibility with Chint NM8N-800 and NM8N-1600.

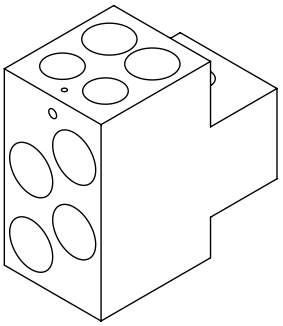


Custom production for different brands are available upon request

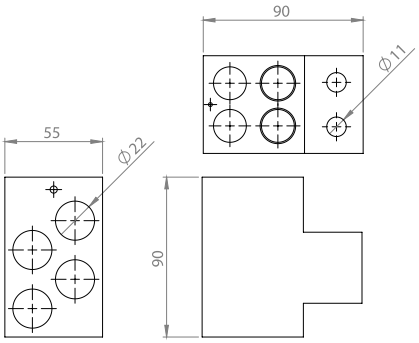
Code	Description
NM8N-800 4x240mm²	Cableclamp NM8N-800 4x240mm²
NM8N-1600 4x240mm²	Cableclamp NM8N-1600 4x240mm²
NM8N-1600 8x240mm²	Cableclamp NM8N-1600 8x240mm²

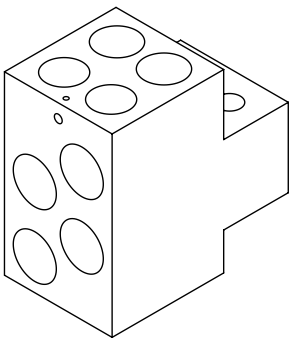
NM8N-800 4x240mm²



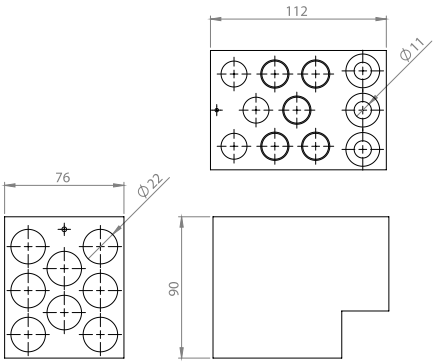


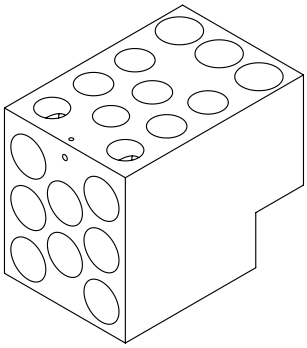
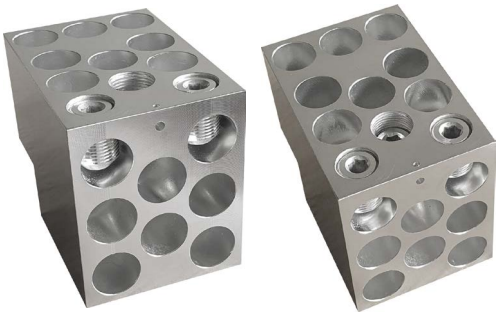

NM8N-1600 4x240mm²






NM8N-1600 8x240mm²



CURRENT TRANSFORMERS

Series	BK
Bus Bar	25mm x 3mm
Amper	5/5A - 200/5A
Class	0,55 / 0,5 / 1

Series	BK1C
Hole	Screw Terminals
Amper	1/5A - 50/5A
Class	0,5 / 1

Series	CK20
Hole	Ø 20mm
Amper	40/5A - 300/5A
Class	0,5 / 1 / 3

Series	TK30N
Hole	30 x 10mm (Ø 26mm)
Amper	40/5A - 600/5A
Class	0,5 / 1 / 3 / 5

Series	TK30S
Hole	30 x 10mm (Ø 26mm)
Amper	40/5A - 600/5A
Class	0,5 / 1 / 3 / 5

Series	TK30
Hole	30 x 10mm (Ø 26mm)
Amper	40/5A - 600/5A
Class	0,5 / 1 / 3 / 5

Series	TK30A
Hole	30 x 10mm (Ø 26mm)
Amper	25/5A - 600/5A
Class	0,1 / 0,25 / 0,2 / 0,5S / 0,5 / 1

Series	TK40
Hole	40 x 10mm (Ø 30mm)
Amper	200/5A - 800/5A
Class	0,25 / 2 / 0,5S / 0,5 / 1

Series	TK60
Hole	60 x 10mm (Ø 51mm)
Amper	600/5A - 1250/5A
Class	0,1 / 0,25 / 0,2 / 0,5S / 0,5 / 1

Series	TK80
Hole	80 x 10mm (Ø 65mm)
Amper	800/5A - 2000/5A
Class	0,1 / 0,25 / 0,2 / 0,5S / 0,5 / 1

Series	TK100
Hole	100mm x 30mm (Ø 85mm)
Amper	1000/5A - 4000/5A
Class	0,1 / 0,25 / 0,2 / 0,5S / 0,5 / 1

Series	TK120
Hole	120mm x 70mm
Amper	3000/5A - 6300/5A
Class	0,1 / 0,25 / 0,2 / 0,5S / 0,5 / 1

Series	DK125
Hole	39mm x 125mm
Amper	1000/5A - 4000/5A
Class	0,1 / 0,25 / 0,2 / 0,5S / 0,5 / 1

Series	RK
Hole	Customized
Amper	100/5A - 6300/5A
Class	0,1 / 0,25 / 0,2 / 0,5S / 0,5 / 1

SPLITE CORE CURRENT TRANSFORMER

Series	MSK16
Hole	16mm x 16mm
Amper	75/33mV - 200/5A

Series	MSK36
Hole	36mm x 36mm
Amper	100/5A - 600/5A

Series	SK58
Hole	50mm x 80mm
Amper	250/5A - 1000/5A
Class	0,5 / 1

Series	SK812
Hole	80mm x 120mm
Amper	500/5A - 2500/5A
Class	0,5 / 1

Series	MSK24
Hole	24mm x 24mm
Amper	100/5A - 300/5A

Series	MSK50
Hole	50mm x 50mm
Amper	100/5A - 600/5A

Series	SK88
Hole	80mm x 80mm
Amper	250/5A - 1000/5A
Class	0,5 / 1

Series	SK816
Hole	80mm x 160mm
Amper	1000/5A - 6300/5A
Class	0,5 / 1

CONTROL TRANSFORMERS

Control transformers are widely used in industrial applications such as electrical panels or PLC power supplies.
Input and output voltages may vary up to 1000V and they possibily include voltage taps or shield windings.Power ratings of these transformers go up to 10kVA. The electrical connection is done via terminal blocks and special mounting for DIN rails is available on request

MAIN FEATURES

- Highly permeable iron core
- High quality copper or aluminium windings
- Class 1 transformer
- Excellent voltage regulation
- High short time power
- Vacuum impregnated varnish to ensure silent and moisture-immune operation
- CE sign and compatibility with EN 60076, EN 61558 and suitable subclauses
- Manufactured under ISO 9001 quality management system

INDUSTRIAL APPLICATIONS

Elektra's control transformers are used in various countries and industries across the world.
To mention a few:

- Lighting,
- Electric Automation,
- Steel,
- Machinery,
- Robotics,
- Ship Construction,
- Elevator,
- Lifting Industry

ISOLATION TRANSFORMERS

Isolation Transformers are designed to be used on one or three phase systems where galvanic isolation and voltage step-up or step-down required.
Input and output voltages may vary up to 5000V and they possibily include voltage taps or shield windings. Power ratings of these transformers go up to 1600kVA.
The electrical connection is done via terminal blocks or bars. Any vectoral connection type is available on request.

MAIN FEATURES

- Highly permeable iron core
- High quality copper or aluminium windings
- Class 1 transformer
- Excellent Insulation
- Low losses, high efficiency
- Vacuum impregnated varnish to ensure silent and moisture-immune operation
- CE sign and compatibility with EN 60076, EN 61558 and suitable subclauses
- Manufactured under ISO 9001 quality management system

INDUSTRIAL APPLICATIONS

Elektra's isolation transformers are used in various countries and industries accross the world.
To mention a few:

- Lighting,
- Electric Automation,
- Steel,
- Machinery,
- Robotics,
- Ship Construction,
- Elevator,
- Lifting Industry

MEDICAL TRANSFORMERS

Medical transformers used for isolating systems in purpose of maintaining human safety and protecting sensitive medical equipments in hospitals and medical clinics. Therefore these transformers are designed and built to meet the specifications for these places. The IEC 61558-2-15 standard describes the additional specifications.
Medical transformers can be produced according to the customers voltage requests. Different voltage ratings for different regions are applicable.

MAIN FEATURES

- Much lower inrush current (< 12*In)
- Much better voltage regulation (< 3%)
- Much lower no-load current (< 3%)
- Near-zero leakage current
- A specific center tap to provide means to watch isolation level
- Mounted PTC to monitor the temperature levels of the transformers
- Varnished under vacuum to obtain silent duty with high moisture resistance
- Manufactured under ISO 9001 quality management system

HARMONIC FILTER REACTORS

Detuned Harmonic Filter Reactors, are used in series with capacitor banks in power factor correction units. By using these types of detuned reactors it is possible to avoid following negative effects on system.

- Overcurrent during switching on the capacitor banks
- Overload of capacitor banks because of the harmonic resonance.
- Short lifetime on capacitors
- Overheating of the utility transmission cables.
- Overheating of the distribution transformer.
- Unintended triggering of the protective devices.
- Distortion of utility voltage waveform and problems on voltage sensitive devices
- Interferences on data transmission systems
- Unexplainable faults in electronic boards

Chosing the correct detuned filter reactor and capacitor value on detuned power factor correction systems is very important. To obtain optimum performance form a detuned power factor correction system following criteria must be controlled and met during the pairing of the reactors and capacitors.

CHOOSING CORRECT HARMONIC FILTER REACTOR

- The resonance frequency must be chosen according to harmonic analysis of the system
- The voltage across the terminals of the capacitor will increase because of the inductive reaction of the rector. The rated voltage of the capacitors must be chosen according to the resonance frequency.
- In detuned power factor correction systems, presence of higher voltage rated capacitors and reactors causes a difference between rated capacitor power and obtained reactive power. The obtained power must be calculated in order to avoid low compensation.
- The reactors will genereate extensive heat due to heavy harmonic load. The cabinets must be designed to disperse this heat.
- All Elektra harmonic filter reactors have CE sign, produced according to 61558-2-20 standards, and tested in accredited laboratory

Harmonics	U3 = 0,5%UR
	U5 = 6,0%UR
	U7 = 5,0%UR
	U11 = 3,5%UR
	U13 = 3,0%UR
Effecive Current	Irms = √ (I12 + I32 ... I132)

DISCHARGE UNITS

In a volatile reactive power environment, discharge reactors reduced discharge time and increase the life-time of the capacitors in a power factor correction system.

MAIN FEATURES

- Reduces discharge time of capacitors for fast changing reactive power demands
- Low Loss
- Compact Design
- Up to 100 kVAR discharging
- Up to 690V operation voltage
- Din Rail mountable shockproof casin
- CE sign and manufactured under ISO 9001 quality management system

Discharge Time	230V	up to 25 kVAr < 10 s
		up to 50 kVAr < 20 s
		up to 100 kVAr < 40 s
	400-525V	up to 25 kVAr < 5 s
		up to 50 kVAr < 10 s
		up to 100 kVAr < 20 s
	525-690V	up to 25 kVAr < 3 s
		up to 50 kVAr < 6 s
		up to 100 kVAr < 12 s
	690-800V	up to 25 kVAr < 2,5 s
		up to 50 kVAr < 5 s
		up to 100 kVAr < 10 s

SHUNT REACTORS

Shunt reactors are mainly used in places with long power transmission and distribution lines. Especially for supplying telecomunication stations in urban areas like radio, GSM and TV transmitters with electricity, long overland cables must be used. These cables have a capacitive characteristic at longer distances. This capacitive characteristic causes the system to become overcompensated. This results in penalties in electricity bills because of high capacitive demand.

Furthermore this capacitive characteristic causes the line voltage to increase and may damage sensetive equipment connected to it.This problem can also be observerd in industrial zones, wide campuses, solar farms etc.

The solution for this problem is loading the system inductively with shunt reactors. These reactors can be used single or three phased. They will utilize necessary inductive load for the system to stop overcompensation.

MAIN FEATURES

- One of three phase, highly permeable iron core,
- High quality copper or aluminium windings,
- Thermal fuse protection against overheating in all phases,
- Low losses, high efficiency,
- Vacuum impregnated varnish to ensure silent and moisture-immune operation,
- CE sign and compatibility with EN 61558-2-20 and suitable subclauses,
- Manufactured under ISO 9001 quality management system

COMMON APPLICATIONS

- Telecommunications stations in urban areas like radio, GSM and TV transmitters.
- Places with large areas like industrial zones, wide campuses, solar farms.
- Inductive load systems.

THYRISTOR MODULES

ALPHA series thyristor modules are designed to switch capacitive loads up to 80 kVAr in power factor correction (PFC) applications. The modules can switch capacitive loads within 10ms of receiving a triggering signal. The microprocessor-based architecture and its algorithm switches at the voltage zero crossing, thereby avoiding capacitor abrasion.

MAIN FEATURES of ALPHA SERIES THYRISTOR MODULES:

- Up to 480V, star-or delta-connected symmetrical or asymmetrical loads
- Easy triggering from PFC relays or PLCs
- Longer life expectancy
- Fast switching performance – typically below 10ms
- Guaranteed transient free capacitor switching
- Monitors voltage, status and temperature
- Records detected faults, provides a dry contact output and displays faults on front panel
- Can operate with or without a detuned filter reactor.
- Provides external thermostat connection which can be used to protect detuned filter reactors
- Maintenance free
- Quiet operation

BUSBAR PROCESSING EQUIPMENTS

- 7" touch screen,
- To be able to enter the degree of bending,
- Choosing the bending tool,
- To make the offset for angle,
- Precision bending adjustments 2 times
- Saving memory of 300 program,
- 10 different bending degree in a program,
- Programs can be saved by name,
- Hydraulic moving body,
- Up-down the screen to see the main body of values,
- Copper carrying stand is available for a long copper,
- Adjustable of lenght linear ruler,
- Foot switch and cabinet for put of tools,
- Waste discharge channel,
- Ring bolt hole for lift,
- Cutting and punching without burr.

Technical Specifications				PS160
Mechanic Information	Cutting	Maximum Capacity	mm	15x160
	Punching	Minimum-Maximum Diamater	mm	Ø6~21
	Bending	Minimum Bending Degree	mm	85°
	Dimensions/Weight	Width x Length x Height	cm	80x105x110
		Space	m³	0.92
		Total Weight	kg	380
Electrical Information	Power Consumption	Engine	kW	1.5 Three-phase
	Control System	Delta PLC Delta HMI		DVP14SS211T DOP-B07S411
	Electrical System	Operating Voltage	V	380
		Controlling Voltage	V	24 DC
		Transformer	KVA	0,1
		Normal Operation Amperes	A	3
Hydraulic Information	Operation Pressure		Bar	180
	Valve Controls		V	24 DC
	Oil Capacity	Minimum	Lt	9
		Maximum	Lt	18

Standard Tools
Punching Tool Round Ø6,6-Ø9-Ø11-Ø14-Ø16,5 (5 Pcs. Punch-Die
Cutting Tool
Wide Bending Tool R15
Wide Bending Tool Die R15
Wide Bending Tool R10
Wide Bending Tool Die R10
Narrow Bending Tool R5
Narrow Bending Tool Die R5
Length stop
Foot switch

PUNCHING TOOL TABLE	
Metric	Free parts with machine Ø mm
6	6.6
8	9
10	11
12	14
14	16.5

- 7" touch screen,
- To be able to enter the degree of bending,
- Choosing the bending tool,
- To make the offset for angle
- Precision bending adjustments 2 times
- Saving memory of 300 program,
- 10 different bending degree in a program,
- Programs can be saved by name,
- Hydraulic moving body,
- Up-down the screen to see the main body of values,
- Copper carrying stand is available for a long copper,
- Adjustable of lenght linear ruler,
- Foot switch and cabinet for put of tools,
- Waste discharge channel,
- Ring bolt hole for lift,
- Cutting and punching without burr.

Technical Specifications				PS125
Mechanic Information	Cutting	Maximum Capacity	mm	12x125
	Punching	Minimum-Maximum Diamater	mm	Ø4~21
	Bending	Minimum Bending Degree	mm	85°
	Dimensions/Weight	Width x Length x Height	cm	75x105x110
		Space	m³	0.86
		Total Weight	kg	350
Electrical Information	Power Consumption	Engine	kW	1.1 Three-phase
	Control System	Delta PLC Delta HMI		DVP14SS211T DOP-B07S411
	Electrical System	Operating Voltage	V	380
		Controlling Voltage	V	24 DC
		Transformer	KVA	0,1
		Normal Operation Amperes	A	3
Hydraulic Information	Operation Pressure		Bar	180
	Valve Controls		V	24 DC
	Oil Capacity	Minimum	Lt	9
		Maximum	Lt	18

Standard Tools
Punching Tool Round Ø6,6-Ø9-Ø11-Ø14-Ø16,5 (5 Pcs. Punch-Die
Cutting Tool
Wide Bending Tool R10
Wide Bending Tool Die R10
Narrow Bending Tool Die R10
Narrow Bending Tool R5
Narrow Bending Tool Die R5
Length stop
Foot switch

PUNCHING TOOL TABLE	
Metric	Free parts with machine Ø mm
6	6.6
8	9
10	11
12	14
14	16.5

- Hydraulic moving body,
- Copper carrying stand is available for a long copper,
- Adjustable of lenght linear ruler,
- Foot switch,
- Cabinet for put of tools,
- Waste discharge channel,
- Ring bolt hole for lift,
- Easly tools change,
- Cutting and punching without burr.

Technical Specifications				MS125
Mechanic Information	Cutting	Maximum Capacity	mm	12x125
	Punching	Minimum-Maximum Diamater	mm	Ø4~21
	Bending	Minimum Bending Degree	mm	85°
	Dimensions/Weight	Width x Length x Height	cm	75x105x110
		Space	m³	0.86
		Total Weight	kg	350
Electrical Information	Power Consumption	Engine	kW	1.1 Three-phase
	Electrical System	Operating Voltage	V	380
		Controlling Voltage	V	24 DC
		Transformer	KVA	0,1
		Normal Operation Amperes	A	3
Hydraulic Information	Operation Pressure		Bar	180
	Valve Controls		V	24 DC
	Oil Capacity	Minimum	Lt	9
		Maximum	Lt	18

Standard Tools
Punching Tool Round Ø6,6-Ø9-Ø11-Ø14-Ø16,5 (5 Pcs. Punch-Die
Cutting Tool
Wide Bending Tool R10
Wide Bending Tool Die R10
Narrow Bending Tool Die R10
Narrow Bending Tool R5
Narrow Bending Tool Die R5
Length stop
Foot switch

PUNCHING TOOL TABLE	
Metric	Free parts with machine Ø mm
6	6.6
8	9
10	11
12	14
14	16.5

- The opportunity to work at worksite,
- Hand and foot switch,
- Easly tools change,
- Cutting and punching without burr.

Technical Specifications				PM125
Mechanic Information	Cutting	Maximum Capacity	mm	12x125
	Punching	Minimum-Maximum Diamater	mm	Ø4~21
	Bending	Minimum Bending Degree	mm	85°
	Dimensions/Weight	Width x Length x Height	cm	14x34x71
		Space	m³	0.03
		Total Weight	kg	57

Standard Tools
Punching Tool
Round Ø6,6-Ø9-Ø11-Ø14-Ø16,5 (5 Pcs. Punch-Die
Cutting Tool
Wide Bending Tool R10
Hand control
Foot switch

PUNCHING TOOL TABLE	
Metric	Free parts with machine Ø mm
6	6.6
8	9
10	11
12	14
14	16.5

HU 350 Portable hydraulic unit can be used with DGR brand portable busbar machines.

Technical Specifications				HU 350
Mechanic Information	Dimensions/Weight	Width x Length x Height	cm	35x60x40
		Space	m³	0.08
		Total Weight	kg	56
Electrical Information	Power Consumption	Engine	kW	1.5 Single-phase
	Electrical System	Operating Voltage	V	220
		Controlling Voltage	V	24 DC
		Transformer	KVA	10
		Normal Operation Amperes	A	250
Hydraulic Information	Operation Pressure		Bar	250
	Valve Controls		V	24 DC
	Oil Capacity	Minimum	Lt	9
		Maximum	Lt	18

CABLE DUCT CUTTER

- Flat and 45° angle cutting,
- Cutting without burr,
- Cutting without wastage,
- Ruler for easier set

C 02

Product Code	C 02
Cutting Type	Flat and 45° Degree
Maximum Width	125 mm
Lenght Stop	50 cm
Weight	~9 Kg
Dimensions	15 x 83 x 90 cm

- Flat cutting,
- Cutting without burr,
- Cutting without wastage,
- Ruler for easier setting.

C 01

Product Code	C 01
Cutting Type	Flat
Maximum Width	125 mm
Lenght Stop	50 cm
Weight	~7 Kg
Dimensions	10 x 80 x 85 cm

CABLE DUCTS

CODE	DIMENSIONS	PCS/BOX
CWD 2525G	25x25 Wiring Ducts	120 m.
CWD 2540G	25x40 Wiring Ducts	100 m.
CWD 2560G	25x60 Wiring Ducts	60 m.
CWD 2580G	25x80 Wiring Ducts	48 m.
CWD 2510G	25x100 Wiring Ducts	36 m.
CWD 4025G	40x25 Wiring Ducts	80 m.
CWD 4040G	40x40 Wiring Ducts	52 m.
CWD 4060G	40x60 Wiring Ducts	36 m.
CWD 4080G	40x80 Wiring Ducts	48 m.
CWD 4010G	40x100 Wiring Ducts	40 m.
CWD 6040G	60x40 Wiring Ducts	36 m.
CWD 6060G	60x60 Wiring Ducts	48 m.
CWD 6080G	60x80 Wiring Ducts	36 m.
CWD 6010G	60x100 Wiring Ducts	24 m.
CWD 8040G	80x40 Wiring Ducts	48 m.
CWD 8060G	80x60 Wiring Ducts	32 m.
CWD 8080G	80x80 Wiring Ducts	24 m.
CWD 8010G	80x100 Wiring Ducts	16 m.
CWD 1060G	100x60 Wiring Ducts	24 m.
CWD 1080G	100x80 Wiring Ducts	20 m.
CWD 1010G	100x100 Wiring Ducts	16 m.
CWD 1260G	120x60 Wiring Ducts	16 m.
CWD 1280G	120x80 Wiring Ducts	16 m.
CWD 1210G	120x100 Wiring Ducts	16 m.

DIN RAIL CUTTER and PUNCHING TOOLS

RK4M-02

- 4 different types of slot cutting,
- Punching,
- Cutting without wastage and burr,
- Unblunt blade,
- Ruler for easier setting,
- Profile cutting according to customer's specifications.

Product Code	RK4M-02
Cutting Thickness	1,5 mm
Cutting Capacity	Rail 7,5x35 Copper 3x30 mm Rail 15x35 Tie rod Ø8 mm
Punching	Ø5 mm
Lenght Stop	50 cm
Weight	~10 Kg
Dimensions	13 x 85 x 90 cm

RK3M-02

- Cutting without wastage and burr,
- Unblunt blade,
- Ruler for easier setting,
- Profile cutting according to customer's specifications.

Product Code	RK3M-02
Cutting Thickness	1,5 mm
Cutting Capacity	Rail 5,5x15 Rail 7,5x35 Rail 15x35
Lenght Stop	50 cm
Weight	~8 Kg
Dimensions	10 x 85 x 90 cm

35x15 mm SLOTTED MOUNTING DIN RAILS (GALVANIZED)

CODE	DIMENSIONS	PCS/BOX
4243	2 m	25

35x7,5 mm SLOTTED MOUNTING DIN RAILS (GALVANIZED)

CODE	DIMENSIONS	PCS/BOX
4223	2 m	50

PG TYPE IP 68 POLYAMIDE CABLE GLAND

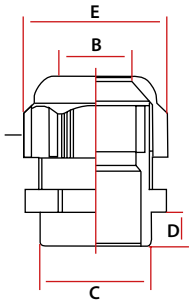


*Including lock nuts

RAL 7001 CODE	RAL 7035 CODE	RAL 9005 CODE	SIZE	MOUNTING DIA C	CABLE DIE MIN-MAX B	THREAD LENGTH D	AA	CORNERS	BOX/ CARTON
9000	**9101**	**9102**	PG-7	12.5	3-6	7	15	17	450 / 6750
9001	**9111**	**9112**	PG-9	15.5	4-8	7	18	20	300 / 4500
9002	**9121**	**9122**	PG-11	18.5	5-10	7	20	23	200 / 3000
9003	**9131**	**9132**	PG-13.5	20.5	6-12	7	22	25	175 / 2625
9004	**9141**	**9142**	PG-16	22.5	10-14	8	24	27	125 / 1875
9005	**9151**	**9152**	PG-21	28.5	13-18	8	30	34	75 / 1125
9006	**9161**	**9162**	PG-29	37.5	18-25	8	40	45	40 / 600
9007	**9171**	**9172**	PG-36	47.5	24-32	10	55	61	20 / 300
9008	**9181**	**9182**	PG-42	55.0	32-38	12	58	65	15 / 225
9009	**9191**	**9192**	PG-48	60.0	37-44	12	65	72	12 / 180

METRIC TYPE IP 68 POLYAMIDE CABLE GLAND



*Including lock nuts

RAL 7001 CODE	RAL 7035 CODE	RAL 9005 CODE	SIZE	MOUNTING DIA C	CABLE DIE MIN-MAX B	THREAD LENGTH D	AA	CORNERS	BOX/ CARTON
9050	**9201**	**9202**	M 12 x 1.5	12	3-6.5	10	15	17	450 / 6750
9051	**9211**	**9212**	M 16 x 1.5	16	5-10	10	22	25	200 / 3000
9052	**9221**	**9222**	M 20 x 1.5	20	6-12	10	24	27	150 /2250
9053	**9231**	**9232**	M 25 x 1.5	25	13-18	10.5	33	38	75 / 1125
9054	**9241**	**9242**	M 32 x 1.5	32	18-25	16	42	48	40 / 600
9055	**9251**	**9252**	M 40 x 1.5	40	24-32	18	43	58	20 / 300




PG TYPE POLYAMIDE BLINDSTOP

Colour

Ral: 7035

Ral: 7001

Ral: 9005

RAL 7001 CODE	RAL 7035 CODE	RAL 9005 CODE	SIZE	MOUNTING DIA C	PCS/BOX
9090	9301	9302	PG-7	12..5	250
9091	9311	9312	PG-9	15.5	250
9092	9321	9322	PG-11	18.5	250
9093	9331	9332	PG-13.5	20.5	250
9094	9341	9342	PG-16	22.5	250
9095	9351	9352	PG-21	28.5	250
9096	9361	9362	PG-29	37.5	150
9097	9371	9372	PG-36	47.5	100

RUBBER BLINDSTOP

CODE	SIZE	MOUNTING DIA C	PCS/BOX
9490	PG-13.5	17	100
9491	PG-16	22.8	100
9492	PG-21	28.6	100
9493	PG-29	37.3	100
9494	PG-36	47	100
9495	PG-42	55	50

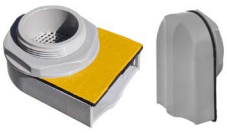
PG & METRIC TYPE SPIRAL CABLE GLANDS

COLOUR	PG CODE	PG SIZE	METRIC CODE	METRIC SIZE	PCS/BOX
Ral: 7001	9275	PG 7	9475	M 12 x 1.5	200
	9281	PG 11	9478	M 16 x 1.5	100
	9284	PG 13.5	9481	M 20 x 1.5	80
	9290	PG 21	9484	M 25 x 1.5	30
Ral: 7035	9276	PG 7	9476	M 12 x 1.5	200
	9282	PG 11	9479	M 16 x 1.5	100
	9285	PG 13.5	9482	M 20 x 1.5	80
	9291	PG 21	9485	M 25 x 1.5	30
Ral: 9005	9277	PG 7	9477	M 12 x 1.5	200
	9283	PG 11	9480	M 16 x 1.5	100
	9286	PG 13.5	9483	M 20 x 1.5	80
	9292	PG 21	9486	M 25 x 1.5	30

PANEL AIRFLOW BLINDSTOP

CODE	DESCRIPTION	PACKAGE
9510	M 25 x 1.5 Panel Airflow Blindstop	100
9511		
9512		

PANEL AIRFLOW EQUIPMENT (IP54)



CODE	DESCRIPTION	PACKAGE
9500	M 40 x 1.5 Panel Airflow Equipment	50
9501		
9502		

DRAINAGE EQUIPMENT

CODE	DESCRIPTION	PACKAGE
9520	Ø 16 Drainage Equipment	100
9521		
9522		

SIEMENS BELLOWS

CODE	DESCRIPTION	BOX
İRPKT-1050	Bellows / 180 x 64 Siemens	70

MEDIUM VOLTAGE CABLE BELLOWS

CODE	DESCRIPTION	BOX
İRPKT-1030	Ø100 Plastic Cable Holder	100
İRPKT-1040	Ø66 Plastic Cable Holder	100

METAL CABLE GLANDS IP68 (BRASS WITH NICKEL PLATED - INCLUDING LOCK NUTS)

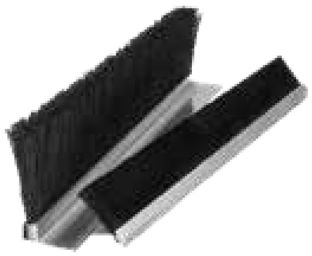
SIZE	CODE	CABLE DIE MIN-MAX / mm	MOUNTING DIA (mm)	THREAD LENGTH (mm)	BOX
PG-7	**EA.06.412**	3-6,5	12,5	6,0	50
PG-7	**EA.06.413**	4-8	12,5	6,0	50
PG-9	**EA.06.416**	4-8	15,5	7,0	50
PG-9	**EA.06.417**	5-10	15,5	7,0	50
PG-11	**EA.06.418**	5-10	19,0	7,0	50
PG-11	**EA.06.419**	6-12	19,0	7,0	50
PG-13,5	**EA.06.420**	6-12	20,5	7,0	50
PG-13,5	**EA.06.421**	10-14	20,5	7,0	50
PG-16	**EA.06.425**	10-14	22,5	8,0	50
PG-16	**EA.06.426**	13-18	22,5	8,0	50
PG-21	**EA.06.432**	13-18	28,5	8,0	25
PG-21	**EA.06.433**	18-24	28,5	8,0	25
PG-29	**EA.06.440**	18-25	37,5	10,0	20
PG-29	**EA.06.441**	22-32	37,5	10,0	20
PG-36	**EA.06.450**	22-32	47,0	10,0	10
PG-36	**EA.06.451**	30-38	47,0	10,0	10
PG-42	**EA.06.456**	30-38	55,0	12,0	10
PG-42	**EA.06.457**	34-44	55,0	12,0	10
PG-48	**EA.06.462**	30-38	60,0	14,0	10
PG-48	**EA.06.463**	34-44	60,0	14,0	10

M12x1,5	**EA.06.012**	3-6,5	12,0	6,0	50
M12x1,5	**EA.06.013**	4-8	12,0	6,0	50
M16x1,5	**EA.06.016**	4-8	16,0	7,0	50
M16x1,5	**EA.06.017**	5-10	16,0	7,0	50
M20x1,5	**EA.06.020**	6-12	20,0	8,0	50
M20x1,5	**EA.06.021**	10-14	20,0	8,0	50
M25x1,5	**EA.06.025**	10-14	25,0	8,0	50
M25x1,5 L	**EA.06.026**	10-16	25,0	8,0	50
M25x1,5XL	**EA.06.027**	13-18	25,0	8,0	50
M32x1,5	**EA.06.032**	13-18	32,0	9,0	25
M32x1,5	**EA.06.033**	18-25	32,0	9,0	25
M40x1,5	**EA.06.040**	18-25	40,0	10,0	25
M40x1,5	**EA.06.041**	22-32	40,0	10,0	25
M50x1,5	**EA.06.050**	22-32	50,0	10,0	10
M50x1,5	**EA.06.051**	30-38	50,0	10,0	10
M56x1,5	**EA.06.056**	30-38	56,0	12,0	10
M63x1,5	**EA.06.062**	30-38	63,0	14,0	10
M63x1,5	**EA.06.063**	34-44	63,0	14,0	10

STAINLESS STEEL IP68 CABLE GLANDS (INCLUDING LOCK NUTS)

SIZE	CODE	CABLE DIE MIN-MAX / mm	MOUNTING DIA (mm)	THREAD LENGTH (mm)	BOX
PG-7	**EA.07.412**	3-6,5	12,5	6,0	50
PG-9	**EA.07.416**	4-8	15,5	7,0	50
PG-11	**EA.07.418**	5-10	19,0	7,0	50
PG-13,5	**EA.07.420**	6-12	20,5	7,0	50
PG-16	**EA.07.425**	10-14	22,5	8,0	50
PG-21	**EA.07.432**	13-18	28,5	8,0	25
PG-29	**EA.07.440**	18-25	37,5	10,0	20
PG-36	**EA.07.450**	22-32	47,0	10,0	10
PG-42	**EA.07.456**	30-38	55,0	12,0	10
PG-48	**EA.07.463**	34-44	60,0	14,0	10
M12x1,5	**EA.07.012**	3-6,5	12,0	6,0	50
M16x1,5	**EA.07.016**	4-8	16,0	7,0	50
M20x1,5	**EA.07.020**	6-12	20,0	8,0	50
M25x1,5	**EA.07.025**	10-14	25,0	8,0	50
M25x1,5 L	**EA.07.026**	10-16	25,0	8,0	50
M25x1,5XL	**EA.07.027**	13-18	25,0	8,0	50
M32x1,5	**EA.07.032**	13-18	32,0	9,0	25
M40x1,5	**EA.07.040**	18-25	40,0	10,0	25
M50x1,5	**EA.07.050**	22-32	50,0	10,0	10
M56x1,5	**EA.07.056**	30-38	56,0	12,0	10

DOOR BOTTOM BRUSHES



*Custom bristle lenght is available upon request.

Code	Product Name	Bristle Length	Length (mt)	Box Qty
İRTU-FRA20030	ALUMINIUM BRUSH FOR DUST PROTECTION	30	2	30
İRTU-FRA20040	ALUMINIUM BRUSH FOR DUST PROTECTION	40	2	30
İRTU-FRA20050	ALUMINIUM BRUSH FOR DUST PROTECTION	50	2	30
İRTU-FRA20060	ALUMINIUM BRUSH FOR DUST PROTECTION	60	2	30
İRTU-FRA20070	ALUMINIUM BRUSH FOR DUST PROTECTION	70	2	30
İRTU-FRA20080	ALUMINIUM BRUSH FOR DUST PROTECTION	80	2	30
İRTU-FRA20100	ALUMINIUM BRUSH FOR DUST PROTECTION	100	2	30
İRTU-FRA20150	ALUMINIUM BRUSH FOR DUST PROTECTION	150	2	30

Code	Product Name	Bristle Length	Length (mt)	Box Qty
İRTU-FRP20030	PLASTIC BRUSH FOR DUST PROTECTION	30	2	30
İRTU-FRP20040	PLASTIC BRUSH FOR DUST PROTECTION	40	2	30
İRTU-FRP20050	PLASTIC BRUSH FOR DUST PROTECTION	50	2	30
İRTU-FRP20060	PLASTIC BRUSH FOR DUST PROTECTION	60	2	30
İRTU-FRP20070	PLASTIC BRUSH FOR DUST PROTECTION	70	2	30
İRTU-FRP20080	PLASTIC BRUSH FOR DUST PROTECTION	80	2	30
İRTU-FRP20100	PLASTIC BRUSH FOR DUST PROTECTION	100	2	30
İRTU-FRP22050	FLEXIBLE PLASTIC BRUSH FOR DUST PROTECTION	50	25	1

PANEL PROJECT POCKET

- 7001
- 7035
- 9001

RAL 7032 CODE	RAL 7035 CODE	RAL 9001 CODE	SIZE	BOX
İRPCB-403	İRPCB-404	İRPCB-405	A4	50
İRPCB-503	İRPCB-504	İRPCB-505	A5	50

COVER STAY

- Cover Stay with automatic lock to keep the door open
- LH and RH application is possible

APPLICATIONS
Electric panels, machinery covers

MATERIAL	
STEEL	
FINISH	**Zinc plated**

LIMIT SWITCHES

L5 Series, Plastic Body, Snap Action, IP 65


L5K13MIP311


L5K13MIP411


L5K13MUM331


L5K13MUM332R


L5K13MEP123


L5K13MEP124


L5K13MIP211


L5K13MEL121

Code	Actuator	Actuator Type	Actuator End Unit Material
L5K13MIP211*	Angular Action Roller One Way (22mm)	Plastic	Plastic
L5K13MIP311*	Angular Action Roller One Way	Plastic	Plastic
L5K13MIM311R	Angular Action Roller One Way, Adjustable	Plastic	Metal
L5K13MIP411*	Angular Action Roller One Way	Plastic	Plastic
L5K13MIP411R*	Angular Action Roller One Way, with Reset	Plastic	Plastic
L5K13MIM211*	Angular Action Roller One Way (22mm)	Plastic	Metal
L5K13MIM311*	Angular Action Roller One Way	Plastic	Metal
L5K13MIM411*	Angular Action Roller One Way	Plastic	Metal
L5K13MIM411R	Angular Action Roller One Way, Adjustable	Plastic	Metal
L5K13MEP121*	Angular Action Roller Two Way	Plastic	Plastic
L5K13MEP122*	Angular Action Roller Two Way, Adjustable	Plastic	Plastic
L5K13MEP123*	Angular Action Roller Two Way, Adjustable	Plastic	Plastic
L5K13MEP124*	Angular Action Roller Two Way, Adjustable	Plastic	Plastic
L5K13MEM121*	Angular Action Roller Two Way	Plastic	Metal
L5K13MEM122*	Angular Action Roller Two Way, Adjustable	Plastic	Metal
L5K13MEM123*	Angular Action Roller Two Way, Adjustable	Plastic	Metal
L5K13MEL121*	Angular Action Roller Two Way	Plastic	Rubber
L5K13MEL122*	Angular Action Roller Two Way, Adjustable	Plastic	Rubber
L5K13MEL123*	Angular Action Roller Two Way, Adjustable	Plastic	Rubber
L5K13MEL123A*	Angular Action Roller Two Way, Adjustable	Plastic	Rubber
L5K13MEM124*	Angular Action Roller Two Way, Adjustable	Plastic	Metal
L5K13PUM211*	Plunger	Plastic	Metal
L5K13PUM211R*	Plunger, with Reset	Plastic	Metal
L5K13PUP211	Plunger	Plastic	Plastic
L5K13MUM331*	Linear Roller	Plastic	Metal
L5K13MUM331R*	Linear Roller, with Reset	Plastic	Metal
L5K13SOM101	Spiral Lever	Plastic	Metal
L5K13SOM102	Spiral Arm	Plastic	Metal
L5K13SOM103	Spiral Arm	Plastic	Metal
L5K13SOP101	Spiral Arm	Plastic	Plastic-Metal
L5K13SOP102	Spiral Arm	Plastic	Plastic-Metal
L5K13SOP103	Spiral Arm	Plastic	Plastic-Metal
L5K13ROP101*	Rigid Rod	Plastic	Plastic
L5K13CPDE	Emergency Stop	Plastic	Plastic
L5K13REM121	Fiber Arm	Plastic	Metal

L52 Series, Metal Body, Snap Action, IP 65


L52K13MIM311


L52K13MIM411


L52K13MUM331


L52K13PUM211


L52K13MIP211


L52K13MEP123


L52K13MEP124


L52K13REF121


L52K13REM121

Code	Actuator	Actuator Type	Actuator End Unit Material
L52K13MIP211	Angular Action Roller One Way	Metal	Plastic
L52K13MIP311*	Angular Action Roller One Way	Metal	Plastic
L52K13MIP411*	Angular Action Roller One Way	Metal	Plastic
L52K13MIM211	Angular Action Roller One Way	Metal	Metal
L52K13MIM311*	Angular Action Roller One Way	Metal	Metal
L52K13MIM411*	Angular Action Roller One Way	Metal	Metal
L52K13MEP121*	Angular Action Roller Two Way	Metal	Plastic
L52K13MEP122*	Angular Action Roller Two Way, Adjustable.	Metal	Plastic
L52K13MEP123*	Angular Action Roller Two Way, Adjustable.	Metal	Plastic
L52K13MEP124*	Angular Action Roller Two Way, Adjustable.	Metal	Plastic
L52K13MEP125*	Angular Action Roller Two Way	Metal	Plastic-Metal
L52K13MEM121*	Angular Action Roller Two Way	Metal	Metal
L52K13MEM122*	Angular Action Roller Two Way, Adjustable.	Metal	Metal
L52K13MEM123*	Angular Action Roller Two Way, Adjustable.	Metal	Metal
L52K13MEL121*	Angular Action Roller Two Way, Adjustable.	Metal	Rubber
L52K13MEL122*	Angular Action Roller Two Way	Metal	Rubber
L52K13MEL123*	Angular Action Roller Two Way, Adjustable.	Metal	Rubber
L52K13MEL123A*	Angular Action Roller Two Way, Adjustable.	Metal	Rubber
L52K13MEM124*	Angular Action Roller Two Way, Adjustable.	Metal	Metal
L52K13PUM211*	Pim	Metal	Metal
L52K13MUM331*	Linear Roller	Metal	Metal
L52K13MUP331	Linear Roller	Metal	Plastic
L52K13SOM101	Spiral Lever	Metal	Metal
L52K13SOM102	Spiral Arm	Metal	Metal
L52K13SOM103	Spiral Arm	Metal	Metal
L52K13SOP101	Spiral Arm	Metal	Plastic-Metal
L52K13SOP102	Spiral Arm	Metal	Plastic-Metal
L52K13SOP103	Spiral Arm	Metal	Plastic-Metal
L52K13ROP101*	Rigid Rod	Metal	Plastic
L52K13REF121	Rigid Rod	Metal	Fiber
L52K13REM121*	Rigid Rod	Metal	Metal
L52K13LEM411	Hinge	Metal	Metal
L52K13LEM412	Hinge	Metal	Metal
L52K13LEM511	Hinge	Metal	Metal
L52K13LEM621	Hinge	Metal	Metal
L52K13LEM622	Hinge	Metal	Metal

Button Switch, IP50

Code	Contact Type	Actuator	Actuator Material	Box/Pcs
BS1010	1 NO, Snap Action	Plunger	Plastic	20
BS1010E	1 NO, Snap Action	Plunger	Plastic with Silicon Cover	16
BS1011	1 NC,Snap Action	Plunger	Plastic	20
BS1011E	1 NC, Snap Action	Plunger	Plastic with Silicon Cover	16
BS1012	1NO+1NC, Snap Action	Plunger	Plastic	20
BS1012E	1NO+1NC, Snap Action	Plunger	Plastic with Silicon Cover	16
BS1020	1 NO, Slow Action	Plunger	Plastic	20
BS1021	1 NC, Slow Action	Plunger	Plastic	20
BS1022	1NO+1NC, Snap Action	Plunger	Plastic	20

BS1022

BS1012

BS1010-E

BS1012-E

PANEL LED LIGHTING WITH MAGNET

Including 30cm cable and mounting screws

220 / 12 Voltage Panel Led Lighting

Code	Product Name	Voltage	L(mm)	H(mm)
İRTU-LED 22025/M	25 cm Panel Led Lighting	220 Volt	250	23
İRTU-LED 22030/M	30 cm Panel Led Lighting	220 Volt	300	23
İRTU-LED 22035/M	35 cm Panel Led Lighting	220 Volt	350	23
İRTU-LED 22045/M	45 cm Panel Led Lighting	220 Volt	450	23
İRTU-LED 22055/M	55 cm Panel Led Lighting	220 Volt	550	23
İRTU-LED 22060/M	60 cm Panel Led Lighting	220 Volt	600	23

Voltage : 110/220 V AC Watt : 5 W IP : 20 Frequency : 50/60 Hz. Colour : White

12 Voltage Panel Led Lighting

Code	Product Name	Voltage	L(mm)	H(mm)
İRTU-LED 12025/M	25 cm Panel Led Lighting	12 Volt	250	23
İRTU-LED 12030/M	30 cm Panel Led Lighting	12 Volt	300	23
İRTU-LED 12035/M	35 cm Panel Led Lighting	12 Volt	350	23
İRTU-LED 12045/M	45 cm Panel Led Lighting	12 Volt	450	23
İRTU-LED 12055/M	55 cm Panel Led Lighting	12 Volt	550	23
İRTU-LED 12065/M	60 cm Panel Led Lighting	12 Volt	650	23

Voltage : 12 V AC Watt : 4 W IP : 20 Colour : White

24 Voltage Panel Led Lighting

Code	Product Name	Voltage	L(mm)	H(mm)
İRTU-LED 24025/M	25 cm Panel Led Lighting	24 Volt	250	23
İRTU-LED 24030/M	30 cm Panel Led Lighting	24 Volt	300	23
İRTU-LED 24035/M	35 cm Panel Led Lighting	24 Volt	350	23
İRTU-LED 24045/M	45 cm Panel Led Lighting	24 Volt	450	23
İRTU-LED 24055/M	55 cm Panel Led Lighting	24 Volt	550	23
İRTU-LED 24065/M	60 cm Panel Led Lighting	24 Volt	650	23

Voltage : Watt : 4 W IP : 20 Colour : White

EMERGENCY STOP COTROL BOX

PK1SE

PK Series				
Code	Button Qty	Features	Box Colour	Box/Pcs
PK1SE	Single	With Emergency Stop Button	Yellow-Black	1

P1EC400E40K

P1C400E72

P Series				
Code	Button Qty	Features	Box Colour	Box/Pcs
P1EC400E40	Single	Emergency Stop	Yellow-Black	1
P1EC400E40K	Single	Emergency Stop, With Plate	Yellow-Black	1
P1C400E72	Single	72mm. Emergency Stop	Grey-Black	1
PA304E40LED1	Single	Emergency Stop, With LED Label	Grey-Black	1

M1C200E40

M Series (Metal)				
Code	Button Qty	Features	Box Colour	Box/Pcs
M1C200E40	Single	Emergency Stop	Yellow-Grey	1
M1C200EE	Single	Emergency Stop, With Label	Yellow-Grey	1

Cable Socks

Code	Color	Dimensions	Spool (mt)
İRTU-PKC05	Black / Grey	5 x 9 mm	300
İRTU-PKC06	Black / Grey	6 x 11 mm	300
İRTU-PKC08	Black / Grey	7 x 11 mm	100
İRTU-PKC10	Black / Grey	10 x 17 mm	250
İRTU-PKC12	Black / Grey	12 x 21 mm	150
İRTU-PKC15	Black / Grey	15 x 24 mm	150
İRTU-PKC20	Black / Grey	20 x 28 mm	150
İRTU-PKC25	Black / Grey	25 x 36 mm	150
İRTU-PKC30	Black / Grey	30 x 43 mm	100
İRTU-PKC40	Black / Grey	40 x 60 mm	75
İRTU-PKC50	Black / Grey	50 x 75 mm	75

Halogen free, Non Flame Propagating

Helezon Cable Collect Spirals

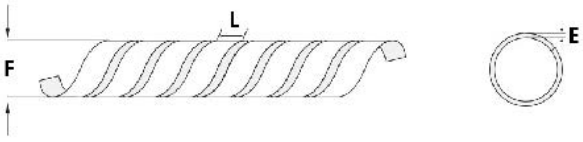
Black colour is available upon request.

50 cm

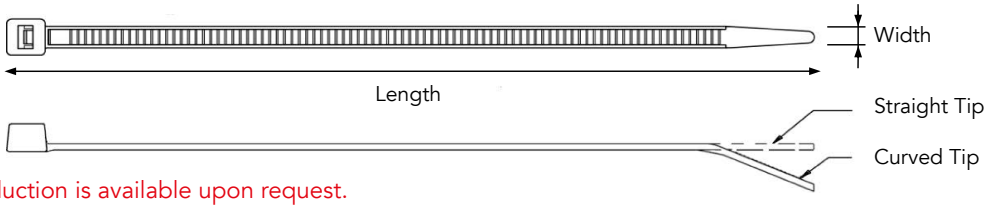
Code	Product Name	Cable Diamente (mm²)	Diamensions			Spool (mt)
			F	E	L	
İRTU-HR01	No: 1 (Size: 50 cm)	2,5 x 15 mm	6	0.60	7.4	100
İRTU-HR02	No: 2 (Size: 50 cm)	6 x 30 mm	8	0.75	12.0	100
İRTU-HR03	No: 3 (Size: 50 cm)	7,5 x 30 mm	10	0.80	12.3	100
İRTU-HR04	No: 4 (Size: 50 cm)	9 x 32 mm	12	0.85	15.0	100
İRTU-HR05	No: 5 (Size: 50 cm)	12 x 35 mm	15	1.00	15.5	100

Roll 10 Mt

Code	Product Name	Cable Diamente (mm²)	Diamensions			Spool (mt)
			F	E	L	
İRTU-HR01	No: 1 (Size: 10 cm)	2,5 x 15 mm	6	0.60	7.4	10
İRTU-HR02	No: 2 (Size: 10 cm)	6 x 30 mm	8	0.75	12.0	10
İRTU-HR03	No: 3 (Size: 10 cm)	7,5 x 30 mm	10	0.80	12.3	10
İRTU-HR04	No: 4 (Size: 10 cm)	9 x 32 mm	12	0.85	15.0	10
İRTU-HR05	No: 5 (Size: 10 cm)	12 x 35 mm	15	1.00	15.5	10



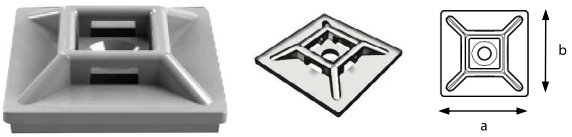
CABLE TIE



Different colour production is available upon request.

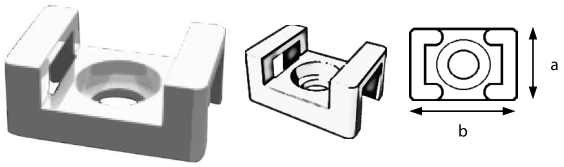
Part No.	Width (mm)	Length (mm)	Max. Bundle Dia (mm)	Min. Tensile Strength (kg)	Box Size (cm)	Pack. Qty. (Bag)	Box Weight (kg)	Packaging Qty. (Ctn)
EB.02.202	2,5	100	22	12	60 x 40 x 40	1.000	23	80.000
EB.12.212	2,5	140	35	12	60 x 40 x 40	100	24	50.000
EB.13.213	2,5	200	54	12	60 x 40 x 40	100	24	35.000
EB.23.223	3,6	100	21	18	60 x 40 x 40	250	25	50.000
EB.03.203	3,6	150	36	18	60 x 40 x 40	100	24	30.000
EB.04.204	3,6	205	54	18	60 x 40 x 40	100	30	25.000
EB.09.209	3,6	250	68	18	60 x 40 x 40	100	29	22.500
EB.10.210	3,6	300	81	18	60 x 40 x 40	100	29	17.500
EB.11.211	3,6	370	102	18	60 x 40 x 40	100	32	16.000
EB.14.214	4,8	200	50	25	60 x 40 x 40	100	28	17.000
EB.06.206	4,8	250	63	25	60 x 40 x 40	100	30	15.000
EB.05.205	4,8	300	80	25	60 x 40 x 40	100	28	15.000
EB.25.225	4,8	350	98	25	60 x 40 x 40	100	32	12.000
EB.16.216	4,8	400	109	25	60 x 40 x 40	100	31	10.000
EB.26.225	4,8	450	125	25	60 x 40 x 40	100	38	9.000
EB.07.207	8	250	62	55	60 x 40 x 40	100	30	8.000
EB.18.218	8	300	75	55	60 x 40 x 40	100	29	6.000
EB.19.219	8	380	105	55	60 x 40 x 40	100	31	6.000
EB.21.221	8	450	124	55	60 x 40 x 40	100	36	4.500
EB.15.215	8	550	160	55	60 x 40 x 40	100	37	4.000
EB.24.224	8	750	220	55	85 x 35 x 24	100	26	2.000
EB.17.217	9	762	225	80	85 x 35 x 24	100	23	1.500
EB.22.222	9	940	290	80	105x35x24	100	29	1.500

CABLE TIE MOUNTS (SELF ADHESIVE & SCREWED)



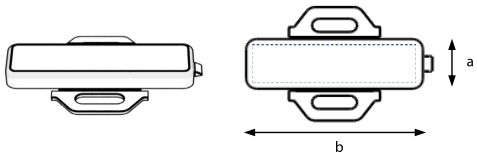
Part No.	a (mm)	b (mm)	Mount. Hole Dia (mm)	Max. Tie Width (mm)	Packaging Qty. (Bag)	Packaging Qty. (Ctn.)
PK.01.1001	20	20	Ø 3,2	3,6	100	25.000
PK.03.1003	28	28	Ø 4,3	4,8	100	12.500

SCREWED TIE MOUNTS



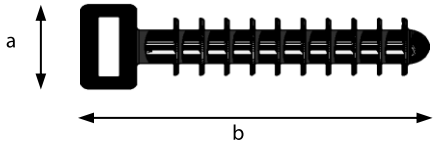
Part No.	a (mm)	b (mm)	Mount. Hole Dia (mm)	Max. Tie Width (mm)	Packaging Qty. (Bag)	Packaging Qty. (Ctn.)
EK.06.1006	10	17	Ø 3,7	4,8	250	40.000
EK.02.1002	17	23	Ø 6,5	8	250	15.000

CABLE TIE MARKER



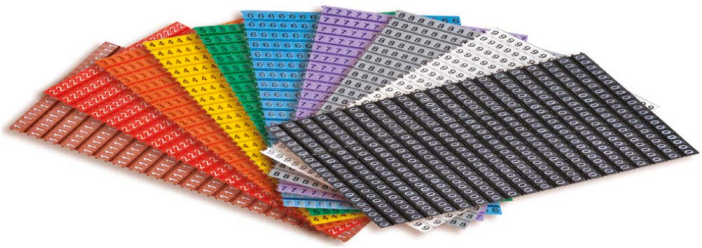
Part No.	a (mm)	b (mm)	Mount. Area		Max. Tie Width (mm)	Packaging Qty. (Bag)	Packaging Qty. (Ctn.)
			Width (mm)	Length (mm)			
ET.07.907	10	35	7	32	8	100	12.500
ET.06.906	20	45	17	42	8	100	6.000

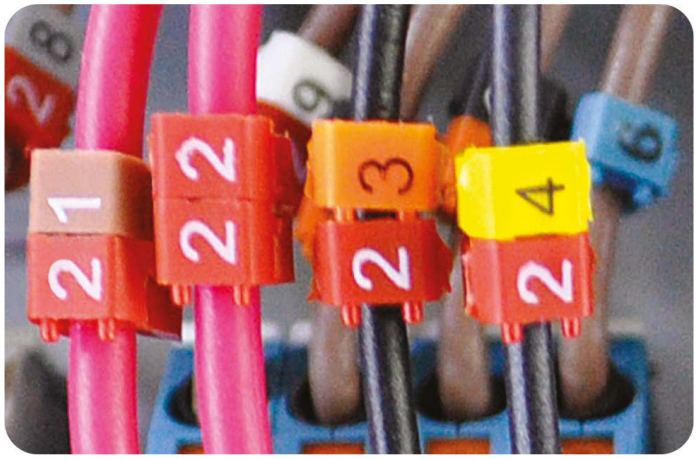
CONCRETE CROCKET

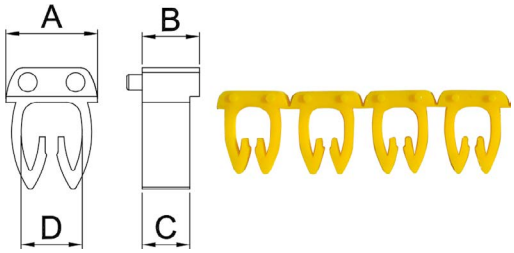


Part No.	a (mm)	b (mm)	Mount. Hole Dia (mm)	Max. Tie Width (mm)	Packaging Qty. (Bag)	Packaging Qty. (Ctn.)
EK.17.1017	13,2	42,8	Ø 8	8	250	12.500

KCG TYPE CABLE MARKER







Suitable with other brands.

DIMENSIONS (mm)	NO	A	B	C	D
	1	4,4	3	2,5	2,7
	2	5	3	2,5	3,2
	3	7,4	3	2,5	4,9

TECHNICAL DATA	
MATERIAL	PA6.6
TEMPERATURE	-40 C, +140 C
PRESS COLOR	Black & White
CABLE SECTION	No1 : 0,75 - 1,5 mm² No2 : 1,50 - 2,50 mm² No3 : 4,00 - 6,00 mm²

NO:1		0,75 - 1,50 mm²
CODE	DESCIRIPTIONS	BOX
1150006	0 PRINTED	400/20.000
1150007	1 PRINTED	400/20.000
1150013	2 PRINTED	400/20.000
1150014	3 PRINTED	400/20.000
1150015	4 PRINTED	400/20.000
1150016	5 PRINTED	400/20.000
1150017	6 PRINTED	400/20.000
1150018	7 PRINTED	400/20.000
1150019	8 PRINTED	400/20.000
1150020	9 PRINTED	400/20.000
1150027	A PRINTED	400/20.000
1150028	B PRINTED	400/20.000
1150029	C PRINTED	400/20.000
1150041	N PRINTED	400/20.000
1150038	L PRINTED	400/20.000
1150047	⏚ PRINTED	400/20.000

NO:2		1,50 - 2,50 mm²
CODE	DESCIRIPTIONS	BOX
1150004	0 PRINTED	400/20.000
1150005	1 PRINTED	400/20.000
1150057	2 PRINTED	400/20.000
1150058	3 PRINTED	400/20.000
1150059	4 PRINTED	400/20.000
1150060	5 PRINTED	400/20.000
1150061	6 PRINTED	400/20.000
1150062	7 PRINTED	400/20.000
1150063	8 PRINTED	400/20.000
1150064	9 PRINTED	400/20.000
1150072	A PRINTED	400/20.000
1150073	B PRINTED	400/20.000
1150074	C PRINTED	400/20.000
1150089	N PRINTED	400/20.000
1150086	L PRINTED	400/20.000
1150095	⏚ PRINTED	400/20.000

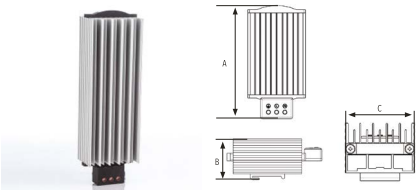
NO:3		4,00 - 6,00 mm²
CODE	DESCIRIPTIONS	BOX
1150002	0 PRINTED	400/20.000
1150003	1 PRINTED	400/20.000
1150105	2 PRINTED	400/20.000
1150106	3 PRINTED	400/20.000
1150107	4 PRINTED	400/20.000
1150108	5 PRINTED	400/20.000
1150109	6 PRINTED	400/20.000
1150110	7 PRINTED	400/20.000
1150111	8 PRINTED	400/20.000
1150112	9 PRINTED	400/20.000
1150119	A PRINTED	400/20.000
1150120	B PRINTED	400/20.000
1150121	C PRINTED	400/20.000
1150133	N PRINTED	400/20.000
1150130	L PRINTED	400/20.000
1150139	⏚ PRINTED	400/20.000

MINI PTC HEATERS

	A	B	C
MPHT15	60	50	27
MPHT25	70	50	27

FEATURES	UNIT	MPHT 15	MPHT 25
HEATING CAPACITY	W	15	25
POWER SUPPLY	V	100-250V AC DC	
MAX. CURRENT	A	2A	
HEATING ELEMENT TYPE	-	PTC RESISTOR, SELF REGULATING	
OVERCURRENT PROTECTION	-	ELECTRONIC THERMAL OVERLOAD	
ELECTRICAL CONNECTIONS	-	LEAD WIRE 30cm L-N-E	
PROTECTION CLASS IEC	-	CLASS II	
PROTECTION DEGREE EN60529	-	IP20	
OPERATING TEMPERATURE	°C	-45 / +70	
STORAGE TEMPERATURE	°C	-45 / +70	
RADIATOR	-	ALUMINIUM PROFILE, ANODIZED	
MOUNTING	-	CLIP FOR MOUNTING on DIN RAIL 35mm	
INSTALLATION POSITION	-	BEST EFFICIENCY IN VERTICAL POSITION	
DIMENSIONS HxWxD	mm	60x50x27	70x50x27
WEIGHT	kg	0.11	0.12
CONFORMITY	-	CE	

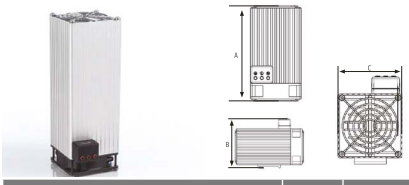
PTC HEATERS



	A	B	C
PHT030	128	59	70
PHT050	138	59	70
PHT075	178	59	70
PHT000	188	59	70
PHT150	228	59	70

FEATURES	UNIT	PHT 030	PHT 050	PHT 075	PHT 100	PHT 150
HEATING CAPACITY	W	30	50	75	100	150
POWER SUPPLY	V	100-250V AC DC				
MAX. CURRENT	A	2A	2A	4A	4A	6A
HEATING ELEMENT TYPE	-	PTC RESISTOR, SELF REGULATING				
OVERCURRENT PROTECTION	-	ELECTRONIC THERMAL OVERLOAD				
ELECTRICAL CONNECTIONS	-	LEAD WIRE 30cm L-N-E				
PROTECTION CLASS IEC	-	CLASS II				
PROTECTION DEGREE EN60529	-	IP20				
OPERATING TEMPERATURE	°C	-45 / +70				
STORAGE TEMPERATURE	°C	-45 / +70				
RADIATOR	-	ALUMINIUM PROFILE, ANODIZED				
MOUNTING	-	CLIP FOR MOUNTING on DIN RAIL 35mm				
INSTALLATION POSITION	-	BEST EFFICIENCY IN VERTICAL POSITION				
DIMENSIONS HxWxD	mm	128X70X59	138X70X59	178X70X59	188X70X59	228X70X59
WEIGHT	kg	0.41	0.44	0.54	0.59	0.72
CONFORMITY	-	CE				

PTC HEATERS WITH FAN



	A	B	C
PFHT100	170	89	60
PFHT150	210	89	60

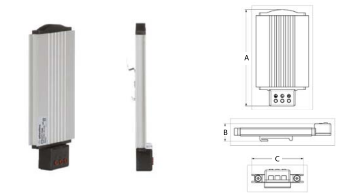
FEATURES	UNIT	PFHT 100	PFHT 150
HEATING CAPACITY	W	100	150
POWER SUPPLY	V	230V AC 50/60 Hz	
MAX. CURRENT	A	4A	4A
HEATING ELEMENT TYPE	-	PTC RESISTOR, SELF REGULATING	
AXIAL FAN	-	60x60x30 mm 16m³/h	
OVERCURRENT PROTECTION	-	ELECTRONIC THERMAL OVERLOAD	
ELECTRICAL CONNECTIONS	-	3-POLE THERMINAL N-L-E	
PROTECTION CLASS IEC	-	CLASS II	
PROTECTION DEGREE EN60529	-	IP20	
OPERATING TEMPERATURE	°C	-45 / +70	
STORAGE TEMPERATURE	°C	-45 / +70	
RADIATOR	-	ALUMINIUM PROFILE, ANODIZED	
MOUNTING	-	CLIP FOR MOUNTING on DIN RAIL 35mm	
INSTALLATION POSITION	-	BEST EFFICIENCY IN VERTICAL POSITION	
DIMENSIONS HxWxD	mm	170x89x60	210x89x60
WEIGHT	kg	0.70	0.94
CONFORMITY	-	CE	

RESISTANCE HEATERS WITH FAN

	A	B	C
PFHT 250	152	110	80
PFHT 500	182	110	80
PFHT 750	232	110	80

FEATURES	UNIT	PFHT 250	PFHT 500	PFHT 750
HEATING CAPACITY	W	250	500	750
POWER SUPPLY	V	230V AC 50/60 Hz		
MAX. CURRENT	A	1.2A	1.4A	3.6A
HEATING ELEMENT TYPE	-	RESISTANCE HEATER		
AXIAL FAN	-	80x80x25 mm 35m³/h		
OVERCURRENT PROTECTION	-	ELECTRONIC THERMAL OVERLOAD		
ELECTRICAL CONNECTIONS	-	3-POLE THERMINAL N-L-E		
PROTECTION CLASS IEC	-	CLASS II, EARTHED		
PROTECTION DEGREE EN60529	-	IP20		
OPERATING TEMPERATURE	°C	-25 / +70		
STORAGE TEMPERATURE	°C	-25 / +70		
RADIATOR	-	ALUMINIUM PROFILE, ANODIZED		
MOUNTING	-	CLIP FOR MOUNTING on DIN RAIL 35mm		
INSTALLATION POSITION	-	BEST EFFICIENCY IN VERTICAL POSITION		
DIMENSIONS HxWxD	mm	152X80X110	182X80X110	232X80X110
WEIGHT	kg	0.98	1.20	1.45
CONFORMITY	-	CE		

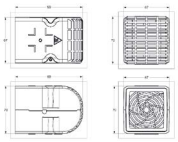
PTC SLIM HEATERS



CODE	A(mm)	B(mm)	C(mm)
PSHT 030	148	27	80
PSHT 050	148	27	80
PSHT 075	166	27	80
PSHT 100	166	27	80
PSHT 150	229	27	80

FEATURES	UNIT	PSHT 030	PSHT 050	PSHT 075	PSHT 100	PSHT 150
HEATING CAPACITY	W	30	50	75	100	150
POWER SUPPLY	V	100-250V AC DC				
MAX. CURRENT	A	2A	2A	4A	4A	6A
HEATING ELEMENT TYPE	-	PTC RESISTOR, SELF REGULATING				
OVERCURRENT PROTECTION	-	ELECTRONIC THERMAL OVERLOAD				
ELECTRICAL CONNECTIONS	-	3 POLE TERMINAL L-N-E				
PROTECTION CLASS IEC	-	CLASS II				
PROTECTION DEGREE EN60529	-	IP20				
OPERATING TEMPERATURE	°C	-45 / +70				
STORAGE TEMPERATURE	°C	-45 / +70				
RADIATOR	-	ALUMINIUM PROFILE, ANODIZED				
MOUNTING	-	CLIP FOR MOUNTING on DIN RAIL 35mm				
INSTALLATION POSITION	-	BEST EFFICIENCY IN VERTICAL POSITION				
DIMENSIONS HxWxD	mm	148x80x27	148x80x27	166x80x27	166x80x27	229x80x27
WEIGHT	kg	190	190	225	235	325
CONFORMITY	-	CE				

PTC FAN HEATERS



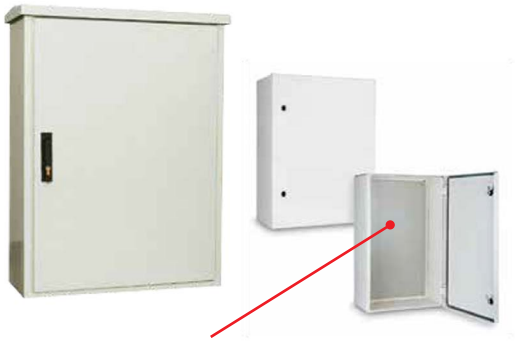
CODE	A(mm)	B(mm)	C(mm)
PFHT 400	99	70	67

FEATURES	UNIT	PFHT 400
HEATING CAPACITY	W	200/300/400 According to connection
POWER SUPPLY	V	115-230V AC 50/60 Hz
MAX. CURRENT	A	-
HEATING ELEMENT TYPE	-	PTC RESISTOR, SELF REGULATING
ELECTRICAL CONNECTIONS	-	LEAD WIRE 30cm L-N*E
PROTECTION CLASS IEC	-	CLASS II
PROTECTION DEGREE EN60529	-	IP20
OPERATING TEMPERATURE	°C	-45 / +70
STORAGE TEMPERATURE	°C	-45 / +70
RADIATOR	-	PPS+Fiberglass work up to 280°C
MOUNTING	-	CLIP FOR MOUNTING on DIN RAIL 35mm
INSTALLATION POSITION	-	BEST EFFICIENCY IN VERTICAL POSITION
DIMENSIONS HxWxD	mm	99x70x67
WEIGHT	kg	0.25
CONFORMITY		CE

POLYESTER BOARDS

Technical Characteristic

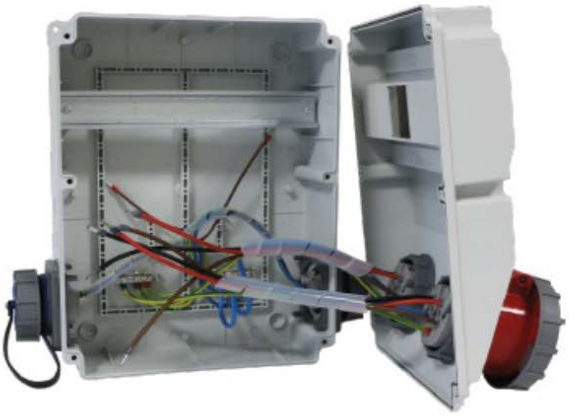
- Color, RAL 7035 Grey
- Impact Resistant
- Degree of Protection IP 54
- With press-fit cover
- Manufactured in polyester reinforced with fiberglass
- Including 1,00 mm. Mounting plate
- Hinged door which open more than 90°
- Resistant against corrosive ambient
- It is possible to install on the wall, ground or over bases supporting



Boards are included with galvanized mounting plate

Code	Dimension (WxHxD)	PACK
CP 501	300 x 200 x 150	1
CP 503	250 x 300 x 155	1
CP 504	300 x 400 x 180	1
CP 505	400 x 500 x 190	1
CP 506	400 x 600 x 200	1
CP 507	500 x 800 x 255	1
CP 508	500 x 800 x 285	1
CP 510	700 x 1100 x 350	1
CP 511	700 x 1000 x 300	1

COMBINATION BOXES



IP 66

IP 44

5/32A 380V 1 Pcs, 5/16A 380V 1 Pcs Front, 1/16A 220V 4 Pcs. Side

BD2M-2118-1334

5/32A 380V 2 Pcs. Front - 1/16A 220V 4 Pcs. Side

BD2M-2218-2040

5/16A 380V 1 Pcs. Front - 1/16A 220V 2 Pcs. Side

BD2M-2118-2020

1/16A 220V 6 Pcs. Front

BD2M-2602-0000

Customize combinations are available upon request

COMBINATION BOXES		Box pcs
BD2M-2118-1334	5/32A 380V 1 Pcs, 5/16A 380V 1 Pcs Front, 1/16A 220V 4 Pcs. Side	6
BD2M-2218-2040	5/32A 380V 2 Pcs. Front - 1/16A 220V 4 Pcs. Side	6
BD2M-2118-2020	5/16A 380V 1 Pcs. Front - 1/16A 220V 2 Pcs. Side	12
BD2M-2602-0000	1/16A 220V 6 Pcs. Front	6

MONOPHASE RUBBER SERIES 1x16A. (2P+E) 200/250V.

BK1-1402-2011 BK1-1402-2022 BK1-1402-2311 BK1-1402-3511 BK1-1402-3612 BK1-1402-3613 BK1-1402-3614

Product Code	Description	IP	BOX	KARTON
BK1-1402-2011	Straight Plug	IP44	30	540
BK1-1402-2022	Angled Plug	IP44	20	360
BK1-1402-2311	Connector Socket	IP44	25	300
BK1-1402-3511	Surface Mounted Socket	IP44	12	216
BK1-1402-3612	2way Socket	IP44	8	144
BK1-1402-3613	3way Socket	IP44	7	126
BK1-1402-3614	4way Socket	IP44	8	96
BK1-1402-2022	Angled Plug	IP44	20	360

FRENCH TYPE MONOPHASE RUBBER SERIES 1x16A. (2P+E) 200/250V.

BK1-1402-2031 BK1-1402-2361 BK1-1402-3622 BK1-1402-3623 BK1-1402-3624

Product Code	Description	IP	BOX	KARTON
BK1-1402-2031	Straight Plug French Type	IP44	30	540
BK1-1402-2361	Connector Socket French Type	IP44	25	300
BK1-1402-3622	2way Socket French Type	IP54	8	144
BK1-1402-3623	3way Socket French Type	IP54	7	126
BK1-1402-3624	4way Socket French Type	IP54	8	96

UPS MONOPHASE RUBBER 1x16A. (2P+E) 200/250V.

BK1-1402-2031 BK1-1402-2041 BK1-1402-2042

Product Code	Description	IP	BOX	KARTON
BK1-1402-2031	UPS Straight Plug	IP44	20	540
BK1-1402-2042	UPS Angled Plug	IP44	20	360
BK1-1402-2041	UPS Handle Angled Plug	IP44	20	360

PLASTIC MONOPHASE SERIES 1x16A. (2P+E) 200/250V.

OEM label production and different colour option available upon request

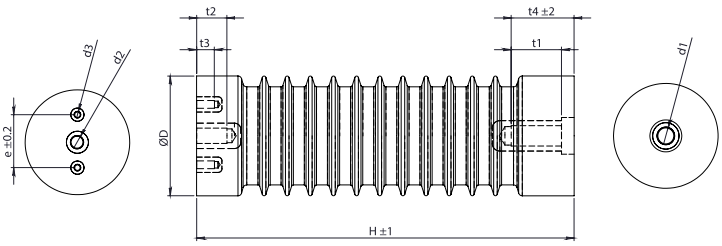
BY8-1402-2700 BY8-1402-3700 BY8-1402-2440 BS1-1402-7011

Product Code	Description	IP	BOX	KARTON
BY8-1402-2440	Screwless Panel Socket (Schuko)	IP44	30	540
BY8-1402-2700	Panel Socket (Horizontal Input)	IP44	30	540

Product Code	Description	IP	BOX	KARTON
BY8-1402-2705	Panel Socket (French-Horizontal Input)	IP44	30	540
BS1-1402-7011	Straight Plug	IP68	10	120

INDOOR POST INSULATOR 3-36 kV

Custom production available upon request



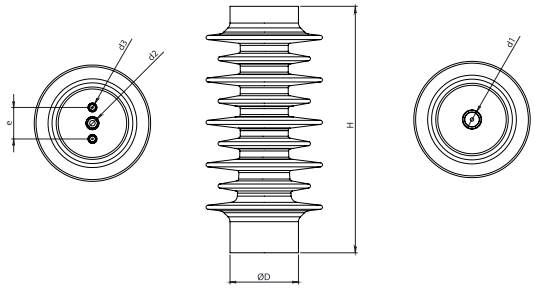
Acc. To IEC 60273 - (1990). IEC 60660 - (1999)

TYPE	Um (kV)	Min. Bending (N)	Dimensions (mm)										
			H	ØD	e	d1	d2	d3	t1	t2	t3	t4	Creepage
1N-500	3	5000	60	55	-	M10	M10	-	14	14	-	14	80
1N-1000	5	10000	80	83	-	M12	M12	-	18	18	-	18	125
10S-500(JO6-60)	7,2	6000	95	58	36	M16	M12	M6	24	18	10	27	130
10S-1000(JO10-60)		10000	95	71	46	M16	M16	M10	24	24	14	27	130
10N-500(JO6-75)	12	6000	130	63	36	M16	M12	M6	29	18	10	37	190
10N-1000(JO10-75)		10000	130	76	46	M20	M16	M10	34	29	14	42	185
10N-1600 (JO16-75)		16000	130	90	66	M20	M16	M10	34	29	14	44	200
15N-500 (JO6-95)	17,5	6000	175	70	36	M16	M12	M6	29	18	10	42	250
15N-1000 (JO10-95)		10000	175	83	46	M20	M16	M10	34	29	14	47	250
15N-1600 (JO16-95)		16000	170	113	66	M24	M16	M10	34	29	14	72	270
20N-500 (JO6-125)	24	6000	210	75	36	M16	M12	M6	29	18	10	37	335
20N-1000 (JO10-125)		10000	210	85	46	M20	M16	M10	34	29	14	47	320
30N-500(JO10-170)	36	6000	300	80	36	M16	M12	M6	29	18	10	42	495
A30N-1000(JO10-170)		10000	300	95	46	M24	M16	M10	54	29	14	67	435
B30N-1000(JO10-170)		10000	330	95	36	M24	M16	M10	54	29	14	67	480
40N-1600(JO16-170)		16000	360	105	46	M24	M16	M10	54	29	14	64	940v

Um (kV)	Rated power frequency withstand voltage acc.to IEC 60273 (kV)	Lightning impulse withstand voltage IEC 60273 (kV)
3,6	10	40
7,2	28	60
12	38	75
17,5	50	95
24	50	125
36	70	170
52	95	250
72,5	140	325

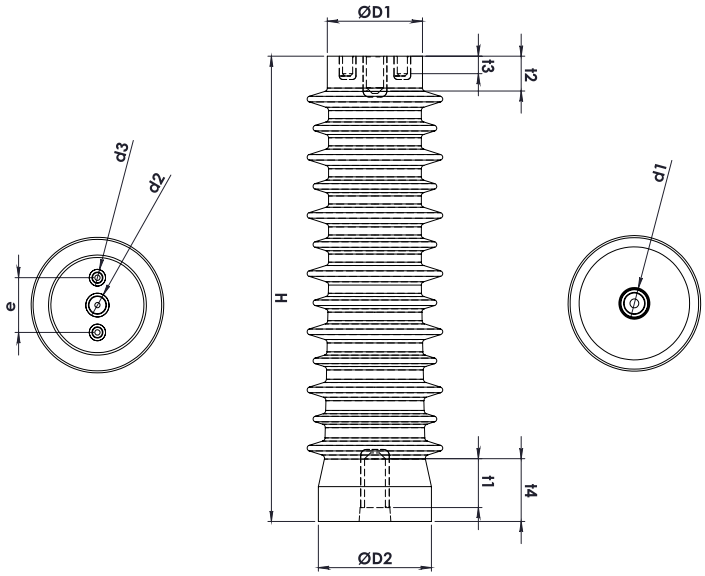
Um: Maximum Voltage For Equipment

OUTDOOR POST INSULATOR



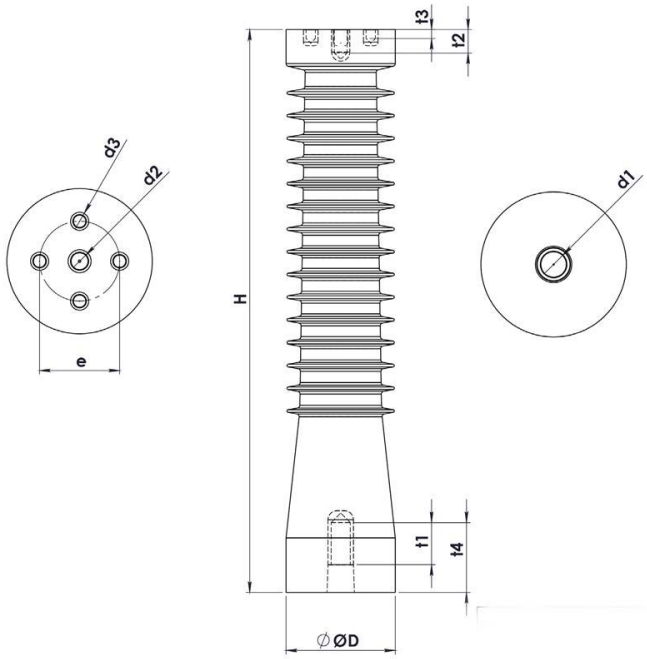
TYPE	Um (kV)	Min. Bending (N)	Group	Dimensions (mm)						
				H	ØD	e	d1	d2	d3	Creepage
HMA-10	12	5000	A	210	65	36	M16x35	M10x20	M6x15	505
HMB-10		10000	B	210	85	46	M20x40	M16x35	M10x20	505
HMA-20	24	5000	A	280	65	36	M16x35	M10x20	M6x15	690
HMB-20		10000	B	280	85	46	M20x40	M16x35	M10x20	690
HMA-30	36	5000	A	360	80	36	M16x35	M10x20	M6x15	940
HMB-30		10000	B	360	105	46	M20x40	M16x35	M10x20	940

INDOOR POST INSULATOR 52 kV



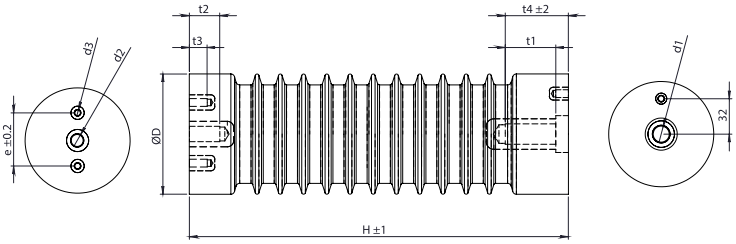
TYPE	Um (kV)	Min. Bending (N)	Dimensions (mm)											
			H	ØD1	ØD2	e	d1	d2	d3	t1	t2	t3	t4	Creepage
JO8-190	52	8000	400	80	95	46	M20	M16	M10	44	29	14	59	660
JO8-250	52	8000	500	120	120	66	M24	M16	M12	54	29	18	87	820

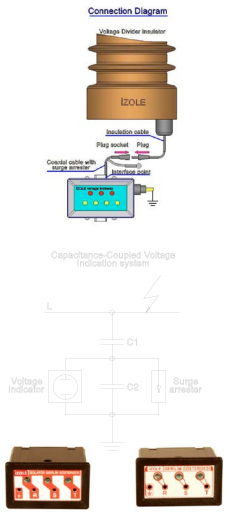
INDOOR POST INSULATOR 72,5 kV



TYPE	Um (kV)	Min. Bending (N)	Dimensions (mm)										
			H	ØD	e	d1	d2	d3	t1	t2	t3	t4	Creepage
JO8-325-A	72,5	8000	620	120	66	M24	M16	M12	54	29	18	87	1020
JO8-325-B	72,5	8000	700	150	66	M24	M16	M12	54	29	18	107	1650

CAPACITIVE DIVIDER INSULATOR

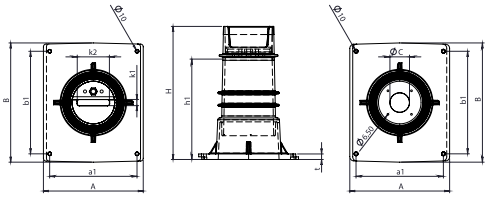




TYPE	Capacitance (LCR Meter) (Pf)	Um (kV)	Min. Bending (N)	Dimensions (mm)										
				H	ØD	e	d1	d2	d3	t1	t2	t3	t4	Creepage
DKA-10N	18 ± 10%	12	5000	130	63	36	M16	M12	M6	20	18	10	22	190
DKB-10N			1000	130	76	46	M20	M16	M10	20	18	14	22	190
DKA-20S	13 ± 10%	17,5	5000	175	63	36	M16	M12	M6	29	18	10	39	250
DKB-20S			10000	175	76	46	M20	M16	M10	29	24	14	41	250
DKA-20N	9 ± 10%	24	5000	210	75	36	M16	M12	M6	34	18	10	44	335
DKB-20N			10000	210	85	46	M20	M16	M10	39	24	14	49	320
DKA-30N-A	12,5 ± 10%		2000	300	62	36	M16	M12	M6	39	18	10	39	535
DKA-30N-B	7,5 ± 10%	36	5000	300	80	36	M16	M12	M6	39	25	9	47	435
DKB-30N-A			10000	300	95	46	M24	M16	M10	45	25	12	57	435
DKB-30N-B			10000	330	95	46	M24	M16	M10	45	25	12	57	480
DKB-30N-C			10000	360	105	46	M24	M16	M10	54	29	14	64	940

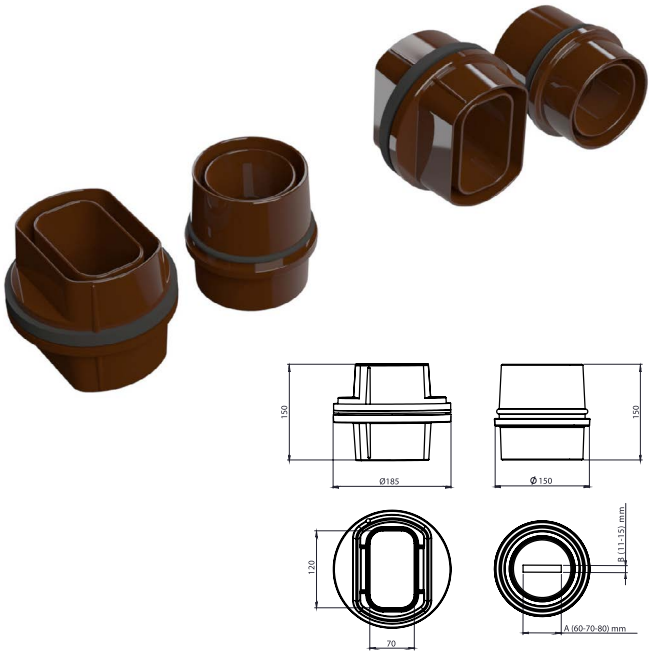
WALL BUSHING

TYPE	Um (kV)	Min. Bending (N)	Rated Current (A)	Dimensions (mm)								
				A	B	al	bl	H	h1	k1	k2	t
12WB1250-150	12	4000	630-1250	150	240	115	210	265	200	21	108	20
12WB1250-160				160		125						
12WB1250-210				210		180						
12WB3150-250			3150	250	250	220	220	325	240	30		
24WB1250-200	24	4000	630-1250	200	240	160	190	325	235	21	102	20
36WB1250-285	36	4000	630-1250	285	370	240	310	485	370	22	115	20
36WB1250-360				360	430	315	370					



TYPE	Um (kV)	Min. Bending (N)	Rated Current (A)	Dimensions (mm)							
				A	B	al	bl	H	h1	ØC	t
12WB2500-150	12	4000	2500	150	240	115	210	265	200	Ø36-48 Ø80-Ø110	20
12WB2500-160				160		125					
12WB2500-210				210		180					
12WB3150-250			3150	250	250	220	220	325	240	Ø110	20
24WB2500-200	24	4000	2500	200	225	160	190	325	235	Ø48-Ø70-Ø80	20
36WB2500-285	36	4000	2500	285	370	240	310	480	370	Ø48-Ø70-Ø110	20
36WB2500-360				360	430	315	370				

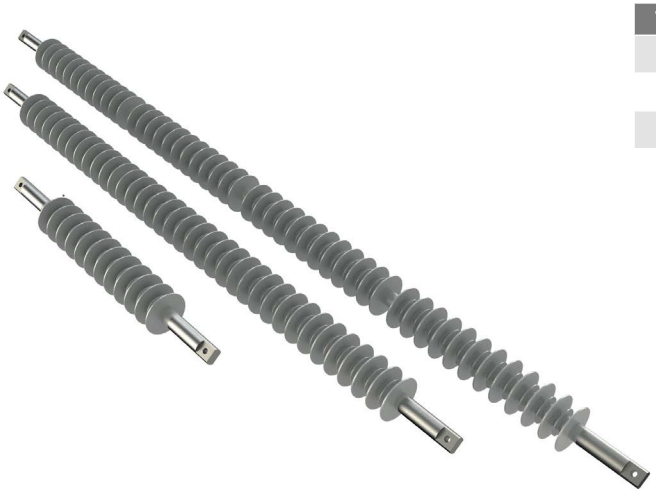
IKG BUSHING



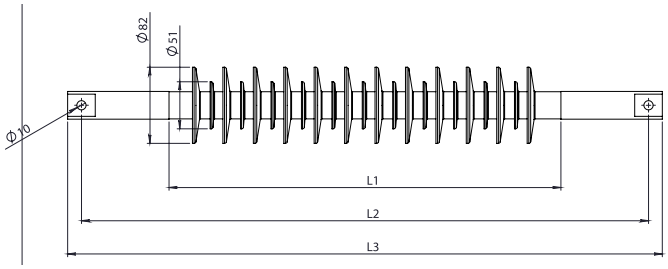
VACUUM BREAKER

STANDARD & CUSTOM PRODUCTS

SILICON INSULATOR



TYPE (kV)	L1 (mm)	L2 (mm)	L3 (mm)	Creepage (mm)
36	425	615	645	1250
145	1220	1410	1440	3585
170	1625	1815	1845	4780



POST AND OVERHEAD LINE PORCELAIN INSULATORS

Station Line Insulators

Low Voltage Insulators

T & D Insulators

Pin and Line Post Type Insulators

INSULATION PIERCING CONNECTORS

NUA-1 Insulation Piercing Connector

NUA-3 Insulation Piercing Connector

NUA-4 Insulation Piercing Connector

Item Code	Main Wire Section	Branch Wire Section	Bolt	Package (Pcs)	Gross Weight
NUA-1	10-95	1.5-10	1	500	24
NUA-2	16-95	4-35	1	200	26
NUA-3	50-150	6-35	1	200	27
NUA-4	16-95	16-95	1	150	25,5
NUA-5	35-150	35-150	1	150	27

FLEXIBLE BRAIDED BARS (Tin plated)

INSULATING MATS

EA 100	
PRODUCT NAME	1000V INSULATING MAT 3 MM THICKNESS, BLACK COLOUR PRODUCT
PRODUCT CODE	EA 100
QUALITY STANDARD	ISO 9001:2015
PRODUCT STANDARD	EN 61111 - EN 60243-1
VOLTAGE	1000V CL: 0
WIDTH	UP TO 120 CM
LENGTH	UP TO 20 MT SPECIAL SIZE CAN BE PRODUCED UPON REQUEST

EA 300	
PRODUCT NAME	36000V INSULATING MAT 5 MM THICKNESS, GREY COLOUR
PRODUCT CODE	EA 300
QUALITY STANDARD	ISO 9001:2015
PRODUCT STANDARD	EN 61111 - EN 60243-1
VOLTAGE	36000V CL: 4
WIDTH	UP TO 120 CM
LENGTH	UP TO 20 MT SPECIAL SIZE CAN BE PRODUCED UPON REQUEST

EA 200	
PRODUCT NAME	15000V INSULATING MAT 3MM THICKNESS, GREY COLOUR
PRODUCT CODE	EA 200
QUALITY STANDARD	ISO 9001:2015
PRODUCT STANDARD	EN 61111 - EN 60243-1
VOLTAGE	15000V CL: 2
WIDTH	UP TO 120 CM
LENGTH	PRODUCED UPON REQUEST

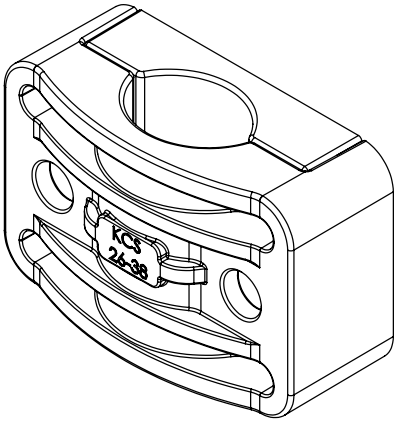
EA 36	
PRODUCT NAME	INSULATING PLATFORM FOR INDOOR -36 kV INSULATING PLATFORM WITH ANTI-SLIP SURFACE
PRODUCT CODE	EA 36
MATERIAL	GLASSFIBER REINFORCED POLYESTER

Removable legs of plastic with rubber tips
Legs are slanted to prevent the platform from tilting.
The insulating platform is used to insulate the user from the ground (earth).
Standard colour is grey. *Upon request red or brown

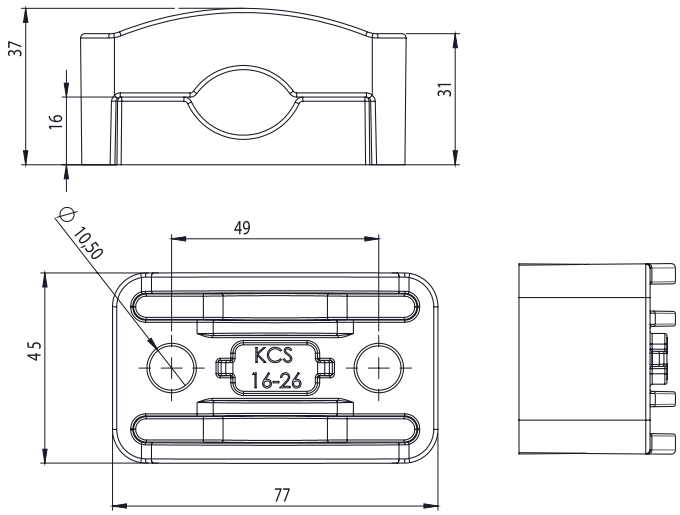
MEDIUM VOLTAGE CABLE HOLDER

* Our tested cable cleats in accordance with the Standard IEC 61914:2015 are suitable against high short circuit levels.

* Glass fibre reinforced polyamide, fire resistant, high UV and chemical resistance, halogen-free and fully recyclable.



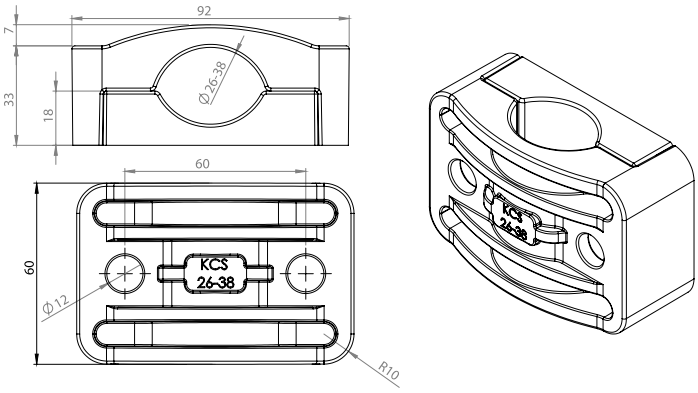
KCS 16-26



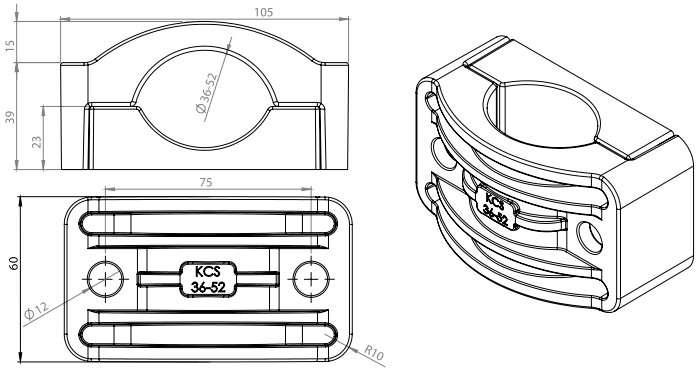
Custom production is available upon request

No	Code	Description	Box Qnty.
1	KCS 16-26	16 - 26 MV Cable Holder	210
2	KCS 26-38	26 - 38 MV Cable Holder	140
3	KCS 36-52	36 - 52 MV Cable Holder	100
4	KCS 50-76	50 - 76 MV Cable Holder	60
5	KCS 75-100	75 - 100 MV Cable Holder	20

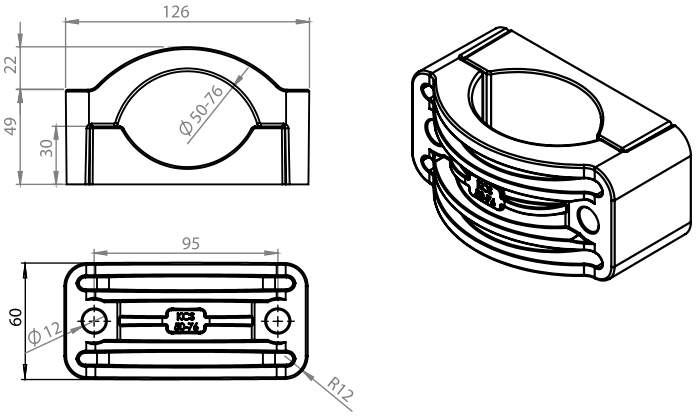
KCS 26-38



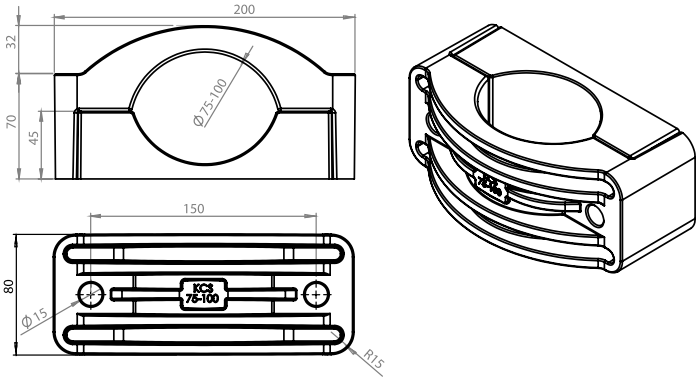
KCS 36-52



KCS 50-76



KCS 75-100

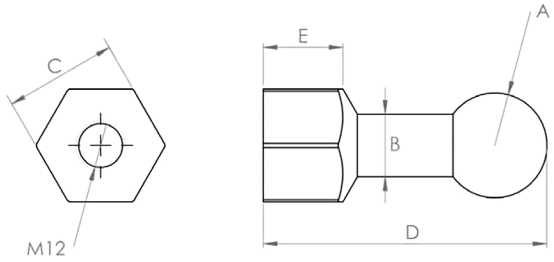


OTR SERIES GROUNDING BALL STUDS

General Information			
PRODUCT CODE	OTR 20	OTR 25	OTR 30
PRODUCT NAME	Grounding Ball		
DESCRIPTION	Ø20 , Ø25 and Ø30 Grounding ball		

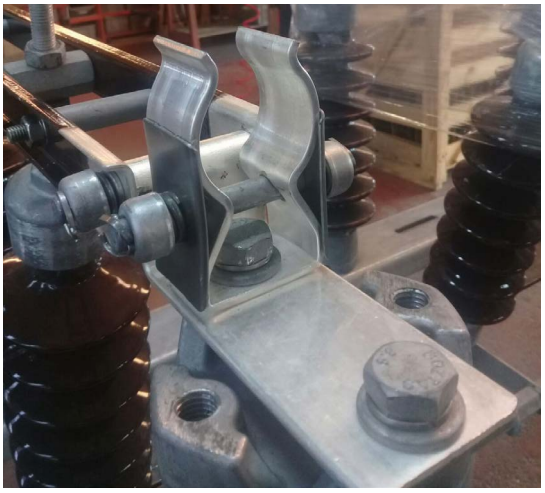
Technical Information			
MATERIAL	Copper		
SURFACE	Tin Plated		
DIMENSIONS	AA24 x 58,5	AA27 x 65,5	AA27 x 73
PRODUCT NAME	130 gr.	213 gr	276 gr
CONNECTION TYPE	M12 Bolt		

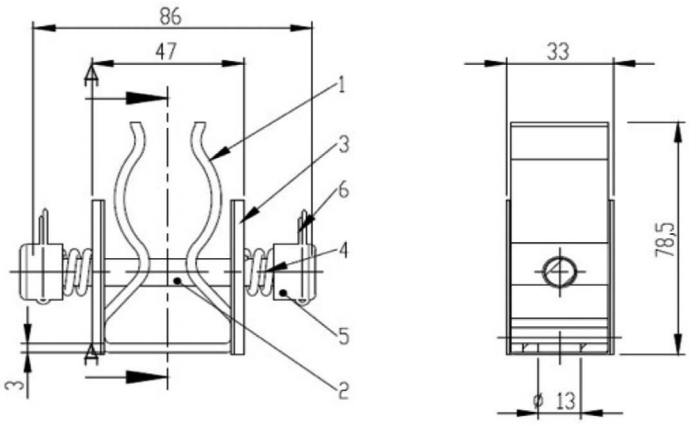
Package Information			
PACKAGE DIMENSIONS	180 mm x 100 mm x 75 mm		
PCS / BOX	26 Pcs/Box	21 Pcs/Box	18 Pcs/Box
PACKAGE WEIGHT	~3,4 kg	~4,5 kg	~5 kg



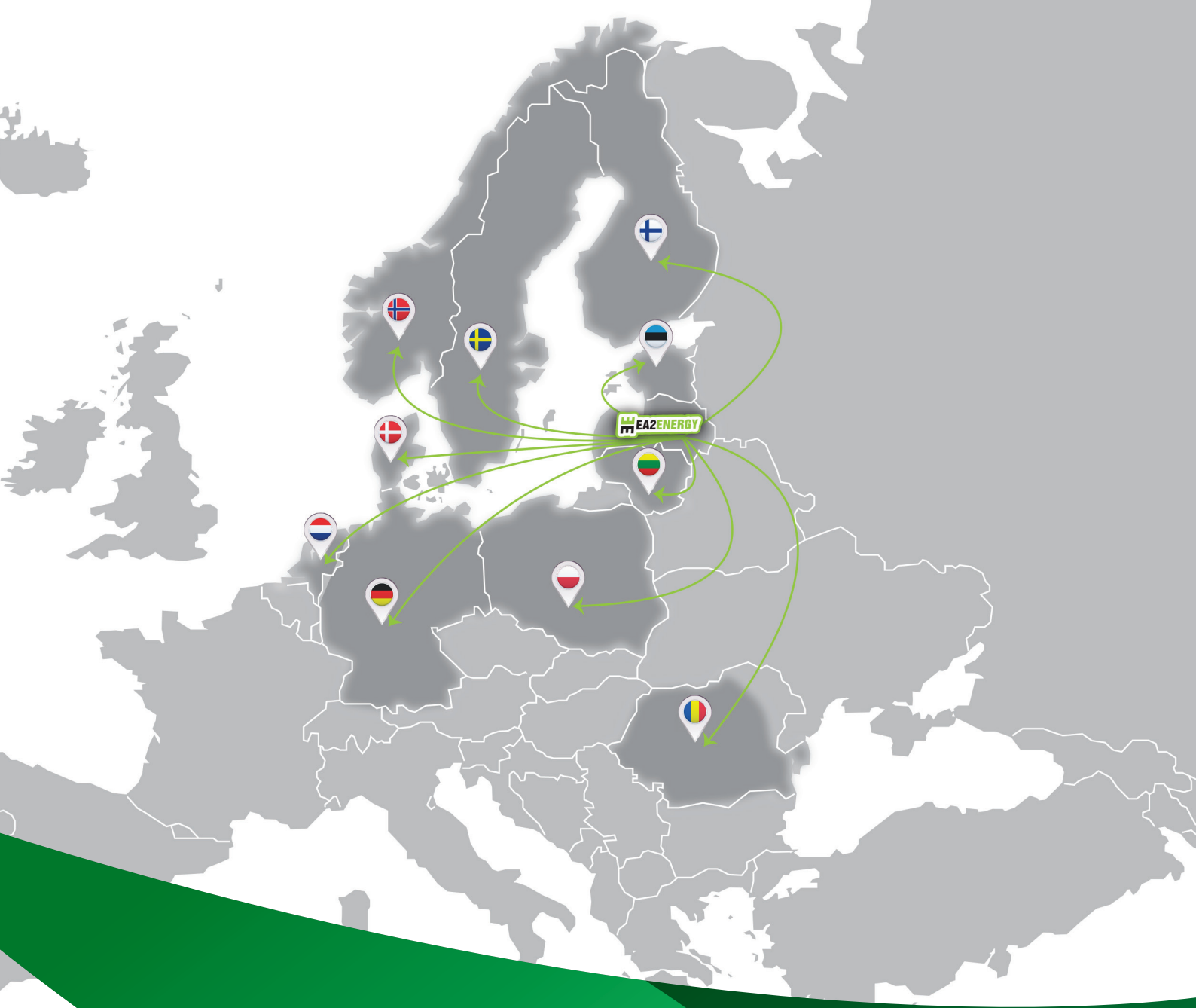
	OTR 20	OTR 25	OTR 30
A	Ø20	Ø25	Ø30
B	11	15	15
C	AA24	AA27	AA27
D	58,55	65,5	70,5
E	18	22	22

FUSE HOLDER





Piece	Product Name	Diamenter	Material	Position No
2	**Gupilya**	Ø2,5 x 25		6
2	**Aluminium Spring Ring**	Ø19 x 12,5 x 1		5
2	**Separator Stainless Spring**	Ø2,5 x 20		4
2	**Stainless Support Plate**			3
1	**Axis Pin**	Ø9 x 86	Transmission	2
2	**Copper Clamp**	30 x 3 x 200	Electrolytic CU Plate	1



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