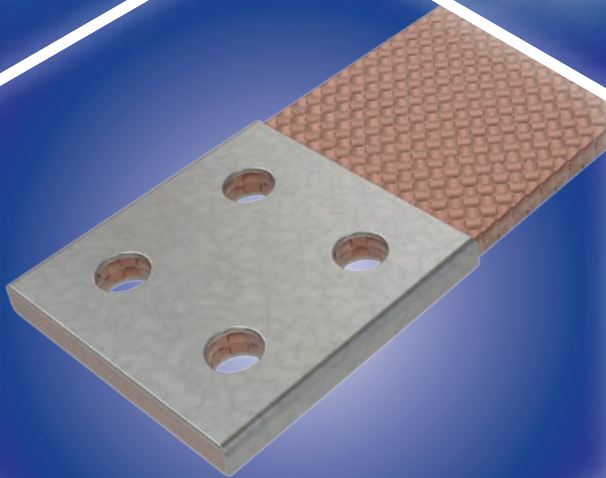
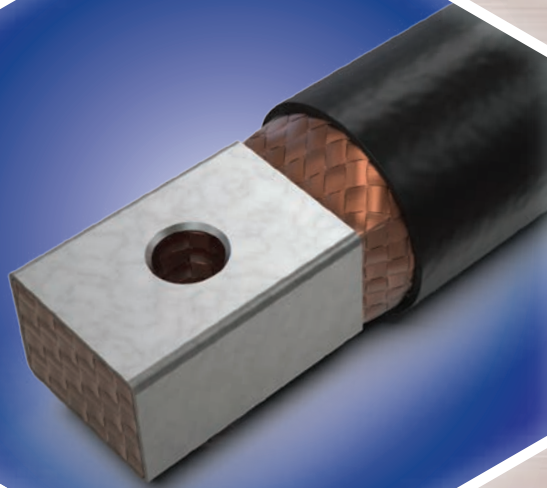
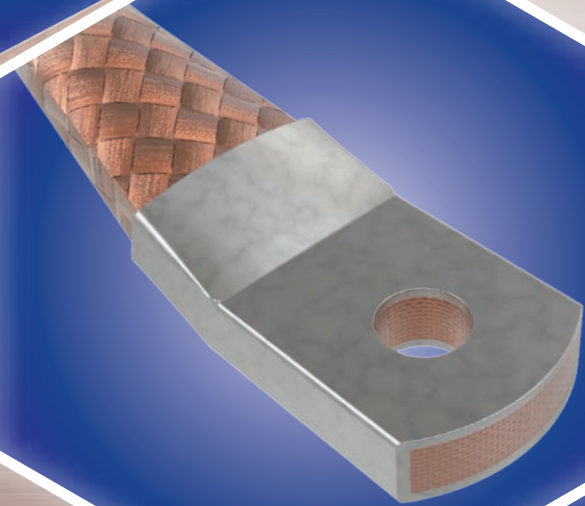
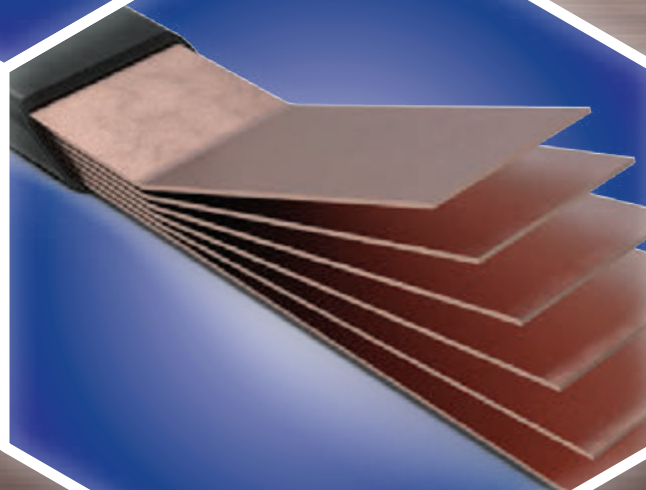
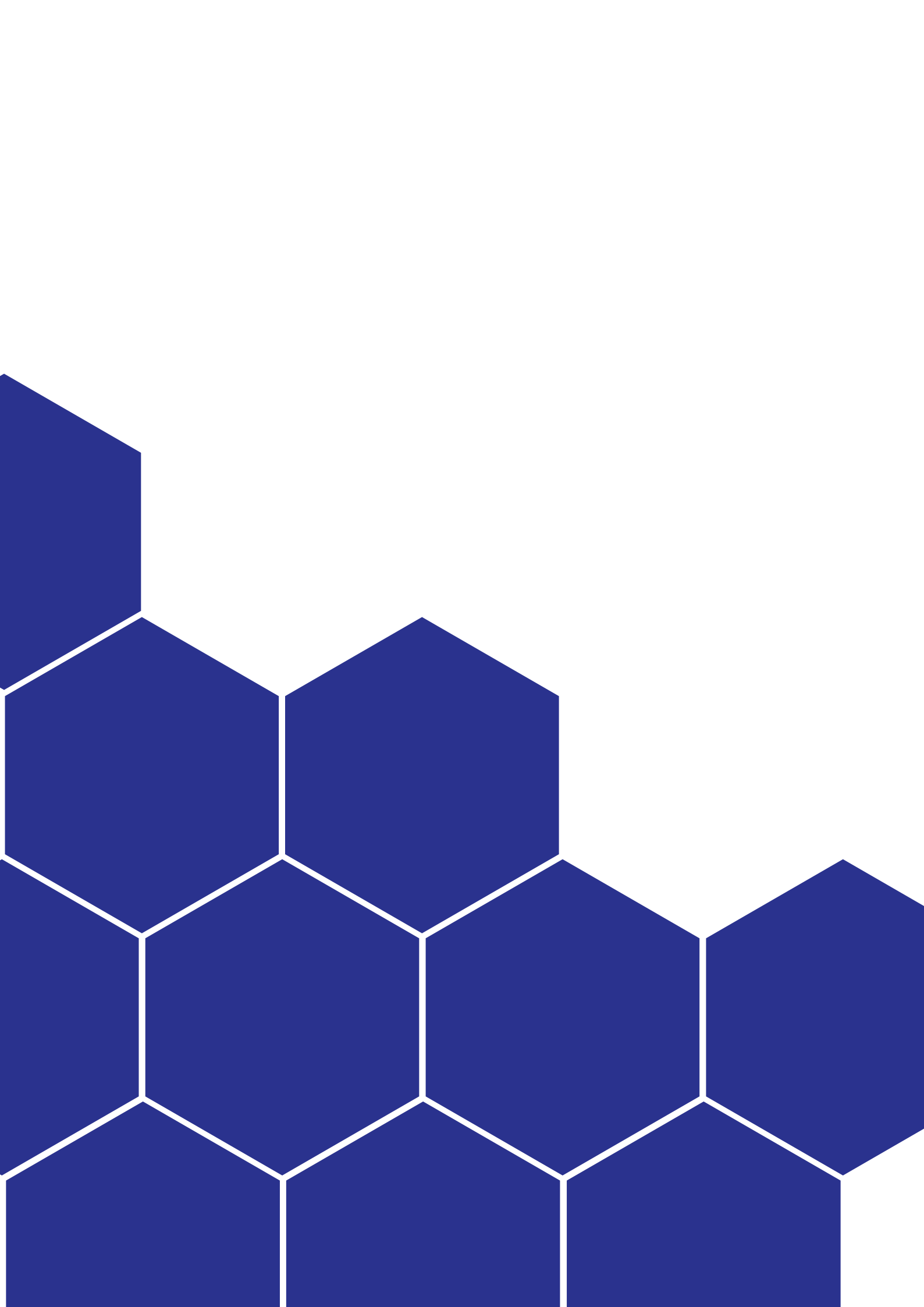




FLEXIBLE COPPER CONDUCTORS







CATALOG 2019

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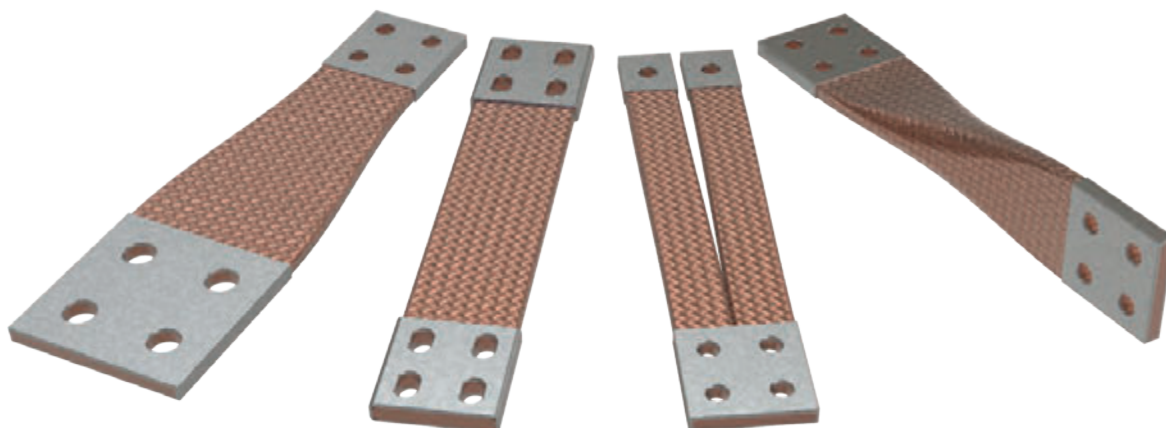
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BRAIDED POWER CONDUCTORS

your product custom made



Power flexible connection in braid for any applications in distributing energy as per :

- Transformers
- Bus duct systems
- Electrical panels
- Generators
- Units power supply
- Rectifiers
- Inverters
- Renewable energies
- Railway applications

Main characteristics

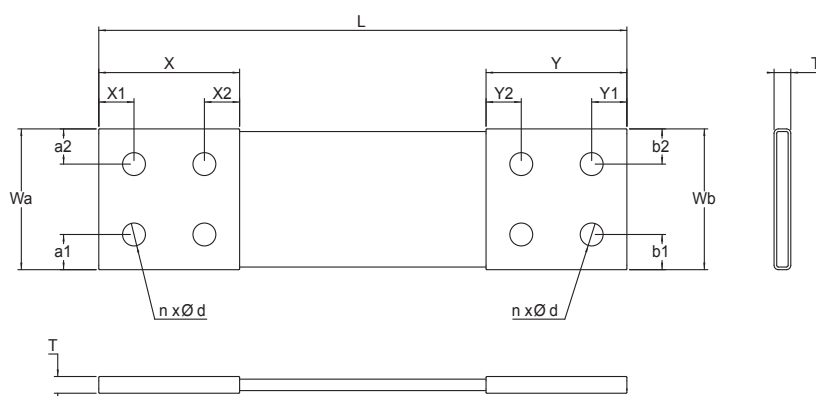
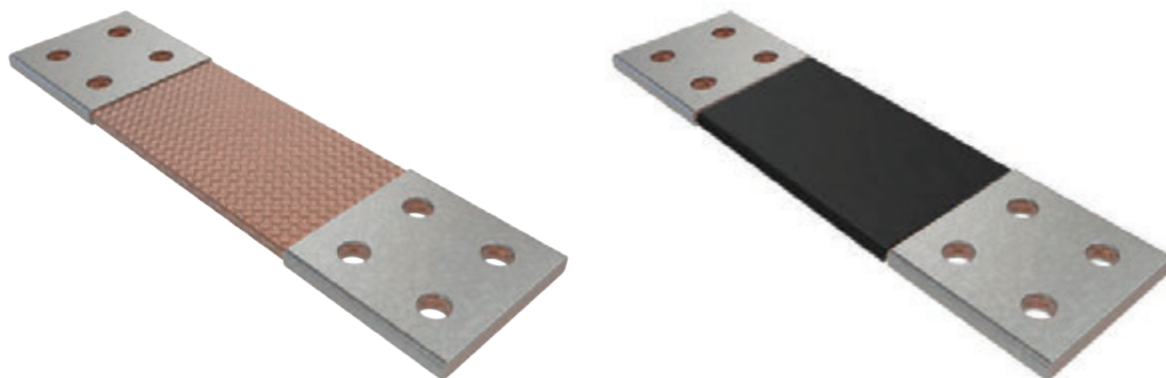
Cu-DHP UNI EN 12499 Tin-plated tubular terminals Bare, silver or nickel plated terminals on demand Single wire
Cu-ETP UNI EN 13602 - Ø 0,20 mm
(special wire on demand)
Cross section from 10 up to 5.000 mm² Terminals width from 8 up to 200 mm. (listed at page XXX)
Special braid materials and structure on demand Special dimensions and design on demand Aluminium braid on demand

Legenda

Type of conductor	Coating on conductor	Coating on terminals	Special treatment	Insulation	
F	R	R	HTD	PVC	PVC tube
Flat braid	Bare copper	Bare copper	Hot Tin Dipped	HPE	Heat shrinkable sleeve
R	T	T		SIL	Silicone sleeve
Round braid	Tinned copper	Tinned copper		GFI	Glass Fiber Insulation
T		S		RTI	Rubber Tube Insulation
Twisted cable		Silver plating		SGF	Silicon Glass Fiber
		N		BPS	Braided Polyamide Sleeve
		Nickel plating		SPI	Squared PVC Insulation

BRAIDED POWER CONDUCTORS

your product custom made



build your power connection – drawing required - examples

Type	Cross section	wire	L	Wa	a1	a2	X	x1	x2	Wb	b1	b2	Y	y1	y2	Ød
	mm ²															
FRR	800	0,20	1000	100	25	25	100	25	25	100	25	25	120	30	30	14
FRT	1000	0,20	450	120	30	30	150	40	40	160	40	40	160	40	40	13
FTT	2500	0,20	810	160	40	40	140	30	30	160	30	30	140	30	30	15

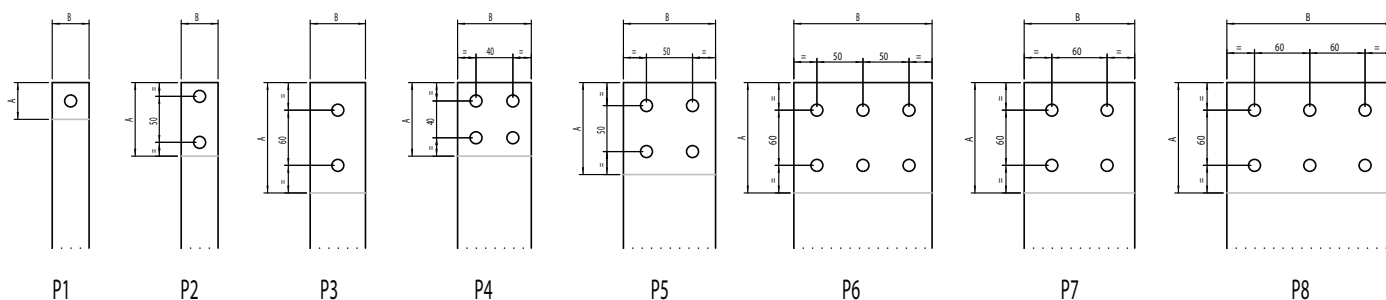
relative ordering code

FRR 800/020-1000/100

FRT 1000/020-450/120-160

FTT 2500/020-810/160

Standard Drilling Patterns



Custom-made drilling patterns or according to DIN 43673 are also available

BRAIDED POWER CONDUCTORS

standard solutions

Bare Copper	Tin-Plated Copper	Cross-Sect.	L	X	W	t	Ød	Drilling	Current load
		mm²	dimensions in mm.						ΔT 50°C
FRT 10/020-200/10	FTT 10/020-200/10	10	200	10	10	3,5	5	P1	110 A
FRT 10/020-200/12	FTT 10/020-200/12	10	200	12	12	3,2	6	P1	110 A
FRT 16/020-200/15	FTT 16/020-200/15	16	200	15	15	3,5	7	P1	160 A
FRT 16/020-200/17	FTT 16/020-200/17	16	200	17	17	3,3	9	P1	160 A
FRT 25/020-200/20	FTT 25/020-200/20	25	200	20	20	3,7	9	P1	210 A
FRT 25/020-200/22	FTT 25/020-200/22	25	200	22	22	3,5	9	P1	220 A
FRT 25/020-200/25	FTT 25/020-200/25	25	200	25	25	3,3	11	P1	220 A
FRT 35/020-200/22	FTT 35/020-200/22	35	200	22	22	4,1	9	P1	260 A
FRT 35/020-200/25	FTT 35/020-200/25	35	200	25	25	3,8	11	P1	270 A
FRT 50/020-200/25	FTT 50/020-200/25	50	200	25	25	4,6	11	P1	320 A
FRT 50/020-200/30	FTT 50/020-200/30	50	200	30	30	4,2	11	P1	340 A
FRT 50/020-250/35	FTT 50/020-250/35	50	250	35	35	3,8	13	P1	350 A
FRT 75/020-200/30	FTT 75/020-200/30	75	200	30	30	5,2	13	P1	420 A
FRT 75/020-250/35	FTT 75/020-250/35	75	250	35	35	4,8	13	P1	440 A
FRT 100/020-200/30	FTT 100/020-200/30	100	200	30	30	6	13	P1	490 A
FRT 100/020-250/35	FTT 100/020-250/35	100	250	35	35	5,6	13	P1	510 A
FRT 100/020-250/40	FTT 100/020-250/40	100	250	40	40	5,2	13	P1	530 A
FRT 120/020-200/30	FTT 120/020-200/30	120	200	30	30	7	13	P1	540 A
FRT 120/020-250/35	FTT 120/020-250/35	120	250	35	35	6,5	13	P1	560 A
FRT 120/020-250/40	FTT 120/020-250/40	120	250	40	40	6	13	P1	580 A
FRT 150/020-200/30	FTT 150/020-200/30	150	200	30	30	8	13	P1	610 A
FRT 150/020-250/35	FTT 150/020-250/35	150	250	35	35	7,5	13	P1	630 A
FRT 150/020-250/40	FTT 150/020-250/40	150	250	40	40	6,8	13	P1	650 A
FRT 150/020-250/45	FTT 150/020-250/45	150	250	45	45	6,2	13	P1	670 A
FRT 200/020-300/40	FTT 200/020-300/40	200	300	40	40	8,3	13	P1	760 A

BRAIDED POWER CONDUCTORS

standard solutions

Bare Copper	Tin-Plated Copper	Cross- Sect.	L	X	W	t	Ød	Drilling	Current load
		mm²	dimensions in mm.						ΔT 50°C
FRT 200/020-300/45	FTT 200/020-300/45	200	300	45	45	7,6	13	P1	780 A
FRT 200/020-300/50	FTT 200/020-300/50	200	300	50	50	7	13	P1	810 A
FRT 200/020-350/40	FTT 200/020-350/40	200	350	100	40	8,3	13	P2	760 A
FRT 200/020-350/50	FTT 200/020-350/50	200	350	100	50	7	13	P2	780 A
FRT 250/020-300/40	FTT 250/020-300/40	250	300	40	40	10	13	P1	860 A
FRT 250/020-300/45	FTT 250/020-300/45	250	300	45	45	9	13	P1	890 A
FRT 250/020-300/50	FTT 250/020-300/50	250	300	50	50	8,3	13	P1	910 A
FRT 250/020-350/40	FTT 250/020-350/40	250	350	100	40	10	13	P2	860 A
FRT 250/020-350/50	FTT 250/020-350/50	250	350	100	50	8,3	13	P2	910 A
FRT 300/020-300/45	FTT 300/020-300/45	300	300	45	45	10,6	13	P1	980 A
FRT 300/020-300/50	FTT 300/020-300/50	300	300	50	50	9,5	13	P1	1000 A
FRT 300/020-300/60	FTT 300/020-300/60	300	300	60	60	8,5	13	P1	1050 A
FRT 300/020-400/45	FTT 300/020-400/45	300	400	80	45	10,6	13	P2	980 A
FRT 300/020-400/50	FTT 300/020-400/50	300	400	100	50	9,5	13	P2	1000 A
FRT 300/020-400/60	FTT 300/020-400/60	300	400	120	60	8,5	13	P2	1050 A
FRT 300/020-400/70	FTT 300/020-400/70	300	400	120	70	8,3	13	P2	1110 A
FRT 400/020-300/50	FTT 400/020-300/50	400	300	50	50	12	13	P1	1180 A
FRT 400/020-400/40	FTT 400/020-400/40	400	400	80	40	15	13	P2	1130 A
FRT 400/020-400/50	FTT 400/020-400/50	400	400	100	50	12	13	P2	1180 A
FRT 400/020-400/60	FTT 400/020-400/60	400	400	120	60	10,5	13	P3	1230 A
FRT 400/020-400/80	FTT 400/020-400/80	400	400	80	80	9,5	13	P4	1340 A
FRT 400/020-400/100	FTT 400/020-400/100	400	400	100	100	8	13	P5	1430 A
FRT 400/020-400/120	FTT 400/020-400/120	400	400	120	120	7	13	P7	1520 A
FRT 500/020-400/50	FTT 500/020-400/50	500	400	100	50	14,5	13	P2	1330 A
FRT 500/020-400/60	FTT 500/020-400/60	500	400	120	60	12,5	13	P3	1390 A

BRAIDED POWER CONDUCTORS

standard solutions

Bare Copper	Tin-Plated Copper	Cross-Sect.	L	X	W	t	Ød	Drilling	Current load
		mm²	dimensions in mm.						ΔT 50°C
FRT 500/020-400/80	FTT 500/020-400/80	500	400	80	80	11	13	P4	1510 A
FRT 500/020-400/90	FTT 500/020-400/90	500	400	120	90	10	13	P4	1560 A
FRT 500/020-400/100	FTT 500/020-400/100	500	400	100	100	9,2	13	P5	1610 A
FRT 500/020-450/120	FTT 500/020-450/120	500	450	120	120	8,5	13	P7	1720 A
FRT 500/020-450/140	FTT 500/020-450/140	500	450	120	140	8,5	13	P7	1800 A
FRT 500/020-450/150	FTT 500/020-450/150	500	450	120	150	7	13	P6	1840 A
FRT 500/020-450/160	FTT 500/020-450/160	500	450	120	160	9	13	P6	1890 A
FRT 500/020-500/200	FTT 500/020-500/200	500	500	120	200	9	13	P8	2040 A
FRT 600/020-400/60	FTT 600/020-400/60	600	400	100	60	16	13	P2	1550 A
FRT 600/020-400/70	FTT 600/020-400/70	600	400	120	70	14	13	P3	1600 A
FRT 600/020-400/80	FTT 600/020-400/80	600	400	80	80	12,5	13	P4	1660 A
FRT 600/020-400/90	FTT 600/020-400/90	600	400	120	90	11,5	13	P4	1720 A
FRT 600/020-400/100	FTT 600/020-400/100	600	400	100	100	10,5	13	P5	1770 A
FRT 600/020-450/120	FTT 600/020-450/120	600	450	120	120	9,5	13	P7	1880 A
FRT 600/020-450/140	FTT 600/020-450/140	600	450	120	140	9,3	13	P7	1980 A
FRT 600/020-450/150	FTT 600/020-450/150	600	450	120	150	8	13	P6	2020 A
FRT 600/020-450/160	FTT 600/020-450/160	600	450	120	160	8	13	P6	2060 A
FRT 600/020-450/180	FTT 600/020-450/180	600	450	120	180	9	13	P8	2150 A
FRT 600/020-500/200	FTT 600/020-500/200	600	500	120	200	10	13	P8	2240 A
FRT 800/020-400/80	FTT 800/020-400/80	800	400	80	80	15,5	13	P4	1940 A
FRT 800/020-400/100	FTT 800/020-400/100	800	400	100	100	13	13	P5	2060 A
FRT 800/020-450/120	FTT 800/020-450/120	800	450	120	120	11,5	13	P7	2180 A
FRT 800/020-450/140	FTT 800/020-450/140	800	450	120	140	11	13	P7	2290 A
FRT 800/020-450/150	FTT 800/020-450/150	800	450	120	150	10	13	P6	2340 A
FRT 800/020-450/160	FTT 800/020-450/160	800	450	120	160	11,2	13	P6	2400 A

Complete current load values at page 32

BRAIDED POWER CONDUCTORS

standard solutions

Bare Copper	Tin-Plated Copper	Cross-Sect.	L	X	W	t	Ød	Drilling	Current load
		mm²	dimensions in mm.						ΔT 50°C
FRT 800/020-450/180	FTT 800/020-450/180	800	450	120	180	10,5	13	P8	2490 A
FRT 800/020-500/200	FTT 800/020-500/200	800	500	120	200	11	13	P8	2590 A
FRT 1000/020-450/80	FTT 1000/020-450/80	1000	450	80	80	19	13	P4	2200 A
FRT 1000/020-450/100	FTT 1000/020-450/100	1000	450	100	100	15,5	13	P5	2320 A
FRT 1000/020-450/120	FTT 1000/020-450/120	1000	450	120	120	14,5	13	P7	2450 A
FRT 1000/020-500/140	FTT 1000/020-500/140	1000	500	120	140	13	13	P7	2570 A
FRT 1000/020-500/150	FTT 1000/020-500/150	1000	500	120	150	13,3	13	P6	2630 A
FRT 1000/020-500/160	FTT 1000/020-500/160	1000	500	120	160	12,8	13	P6	2690 A
FRT 1000/020-500/180	FTT 1000/020-500/180	1000	500	120	180	12,0	13	P8	2800 A
FRT 1000/020-500/200	FTT 1000/020-500/200	1000	500	120	200	12,5	13	P8	2900 A
FRT 1200/020-450/100	FTT 1200/020-450/100	1200	450	100	100	18	15	P5	2560 A
FRT 1200/020-450/120	FTT 1200/020-450/120	1200	450	120	120	16,5	15	P7	2700 A
FRT 1200/020-500/140	FTT 1200/020-500/140	1200	500	120	140	14,6	15	P7	2830 A
FRT 1200/020-500/150	FTT 1200/020-500/150	1200	500	120	150	15	15	P6	2900 A
FRT 1200/020-500/160	FTT 1200/020-500/160	1200	500	120	160	14,3	15	P6	2960 A
FRT 1200/020-500/180	FTT 1200/020-500/180	1200	500	120	180	13,5	15	P8	3070 A
FRT 1200/020-500/200	FTT 1200/020-500/200	1200	500	120	200	13,5	15	P8	3180 A
FRT 1500/020-450/100	FTT 1500/020-450/100	1500	450	120	100	22	15	P5	2900 A
FRT 1500/020-450/120	FTT 1500/020-450/120	1500	450	120	120	20	15	P7	3050 A
FRT 1500/020-500/140	FTT 1500/020-500/140	1500	500	120	140	16,2	15	P7	3180 A
FRT 1500/020-500/150	FTT 1500/020-500/150	1500	500	120	150	17,5	15	P6	3260 A
FRT 1500/020-500/160	FTT 1500/020-500/160	1500	500	120	160	16,6	15	P6	3320 A
FRT 1500/020-500/180	FTT 1500/020-500/180	1500	500	120	180	15,5	15	P8	3440 A
FRT 1500/020-500/200	FTT 1500/020-500/200	1500	500	120	200	15,5	15	P8	3570 A
FRT 1800/020-450/120	FTT 1800/020-450/120	1800	450	120	120	23	15	P7	3370 A

BRAIDED POWER CONDUCTORS

standard solution

Bare Copper	Tin-Plated Copper	Cross-Sect.	L	X	W	t	Ød	Drilling	Current load
		mm²	dimensions in mm.						ΔT 50°C
FRT 1800/020-500/140	FTT 1800/020-500/140	1800	500	120	140	19	15	P7	3500 A
FRT 1800/020-500/150	FTT 1800/020-500/150	1800	500	120	150	20	15	P6	3590 A
FRT 1800/020-500/160	FTT 1800/020-500/160	1800	500	120	160	19	15	P6	3660 A
FRT 1800/020-500/180	FTT 1800/020-500/180	1800	500	120	180	17,5	15	P8	3790 A
FRT 1800/020-500/200	FTT 1800/020-500/200	1800	500	120	200	17,5	15	P8	3930 A
FRT 2000/020-450/120	FTT 2000/020-450/120	2000	450	120	120	25	15	P7	3570 A
FRT 2000/020-500/140	FTT 2000/020-500/140	2000	500	120	140	21	15	P7	3710 A
FRT 2000/020-500/150	FTT 2000/020-500/150	2000	500	120	150	22	15	P6	3800 A
FRT 2000/020-500/160	FTT 2000/020-500/160	2000	500	120	160	21	15	P6	3870 A
FRT 2000/020-500/180	FTT 2000/020-500/180	2000	500	120	180	19	15	P8	4010 A
FRT 2000/020-500/200	FTT 2000/020-500/200	2000	500	120	200	18,5	15	P8	4150 A
FRT 2200/020-450/120	FTT 2200/020-450/120	2200	450	120	120	27	15	P7	3760 A
FRT 2200/020-500/140	FTT 2200/020-500/140	2200	500	120	140	24,5	15	P7	3920 A
FRT 2200/020-500/150	FTT 2200/020-500/150	2200	500	120	150	23,5	15	P6	4000 A
FRT 2200/020-500/160	FTT 2200/020-500/160	2200	500	120	160	22	15	P6	4070 A
FRT 2200/020-500/180	FTT 2200/020-500/180	2200	500	120	180	21,5	15	P8	4220 A
FRT 2200/020-500/200	FTT 2200/020-500/200	2200	500	120	200	20	15	P8	4360 A
FRT 2400/020-450/120	FTT 2400/020-450/120	2400	450	120	120	29	15	P7	3950 A
FRT 2400/020-500/140	FTT 2400/020-500/140	2400	500	120	140	26,5	15	P7	4110 A
FRT 2400/020-500/150	FTT 2400/020-500/150	2400	500	120	150	25	15	P6	4190 A
FRT 2400/020-500/160	FTT 2400/020-500/160	2400	500	120	160	24	15	P6	4260 A
FRT 2400/020-500/180	FTT 2400/020-500/180	2400	500	120	180	23	15	P8	4420 A
FRT 2400/020-500/200	FTT 2400/020-500/200	2400	500	120	200	20	15	P8	4550 A
FRT 3000/020-450/120	FTT 3000/020-450/120	3000	450	120	120	33,5	15	P7	4460 A
FRT 3000/020-500/140	FTT 3000/020-500/140	3000	500	120	140	32	15	P7	4650 A

BRAIDED POWER CONDUCTORS

standard solutions

Bare Copper	Tin-Plated Copper		L	X	W	t	Ød	Drilling	Current load
		mm²	dimensions in mm.						C°50 ΔT
FRT 3000/020-500/150	FTT 3000/020-500/150	3000	500	120	150	30	15	P6	4730 A
FRT 3000/020-500/160	FTT 3000/020-500/160	3000	500	120	160	28,5	15	P6	4810 A
FRT 3000/020-500/180	FTT 3000/020-500/180	3000	500	120	180	27	15	P8	4980 A
FRT 3000/020-500/200	FTT 3000/020-500/200	3000	500	120	200	24	15	P8	5130 A
FRT 3600/020-450/120	FTT 3600/020-450/120	3600	450	120	120	40	15	P7	4960 A
FRT 3600/020-500/140	FTT 3600/020-500/140	3600	500	120	140	37	15	P7	5150 A
FRT 3600/020-500/150	FTT 3600/020-500/150	3600	500	120	150	35	15	P6	5230 A
FRT 3600/020-500/160	FTT 3600/020-500/160	3600	500	120	160	33	15	P6	5320 A
FRT 3600/020-500/180	FTT 3600/020-500/180	3600	500	120	180	31	15	P8	5490 A
FRT 3600/020-500/200	FTT 3600/020-500/200	3600	500	120	200	27,5	15	P8	5650 A
FRT 4500/020-450/120	FTT 4500/020-450/120	4500	450	120	120	50	15	P7	5670 A
FRT 4500/020-500/150	FTT 4500/020-500/150	4500	500	120	150	42,5	15	P6	5940 A
FRT 4500/020-500/160	FTT 4500/020-500/160	4500	500	120	160	41	15	P6	6030 A
FRT 4500/020-500/180	FTT 4500/020-500/180	4500	500	120	180	36	15	P8	6190 A
FRT 4500/020-500/200	FTT 4500/020-500/200	4500	500	120	200	33	15	P8	6370 A
FRT 5000/020-450/100	FTT 5000/020-450/100	5000	450	120	100	68	15	P?	5950 A
FRT 5000/020-450/120	FTT 5000/020-450/120	5000	450	120	120	55	15	P7	6040 A
FRT 5000/020-450/140	FTT 5000/020-450/140	5000	450	120	140	50	15	P7	6230 A
FRT 5000/020-450/160	FTT 5000/020-450/160	5000	450	120	160	48	15	P6	6440 A
FRT 5000/020-450/180	FTT 5000/020-450/180	5000	450	120	180	45	15	P8	6630 A
FRT 5000/020-450/200	FTT 5000/020-450/200	5000	450	120	200	36	15	P8	6750 A

INSULATED COPPER BRAIDS

tinned copper braid– tinned terminals



Tin-plated copper tube terminals:

Single Wire:

Black PVC insulation Self extinguishing:

Operating voltage:

Operating temperature:

Dielectric strenght:

Insulation thickness:

Current loads referred to rise temperature

Cu-DHP UNI EN 12499

Cu-ETP UNI EN 13602 - Ø 0,20 mm

UL 94 V0

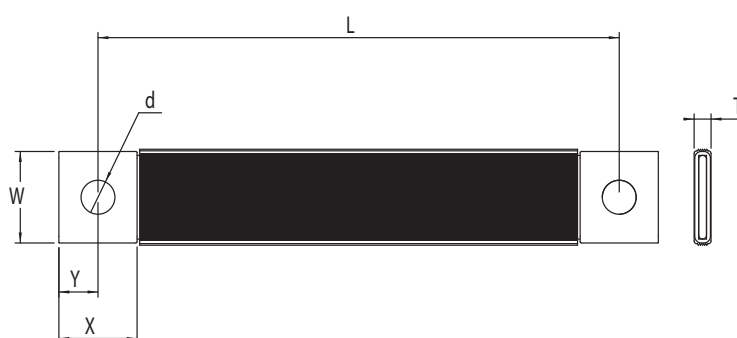
1000 V AC – 1500 V DC

-40/+105°C

20 kV/mm

1,6 – 2mm

ΔT following IEC 439 norm – Ta (Amb.Temp.) 35°C



Tinned Copper braid	Cross-Sect.	L	W	X	Y	t	d Ø	Current load at		
tinned terminals	mm ²	dimensions in mm.						ΔT °30C	ΔT °50C	ΔT °70C
ITT 16/020-L/12	16	230-330-430-530 630-730	12	14	7	3	6,5	93 A	127 A	153 A
ITT 25/020-L/12	25	230-330-430-530 630-730	12	14	7	5	6,5	120 A	160 A	200 A
ITT 25/020-L/20	25	230-330-430-530 630-730	20	22	10	3,7	9 -11	128 A	178 A	220 A
ITT 35/020-L/20	35	230-330-430-530 630-730	20	22	10	4,5	9 -11	153 A	212 A	260 A
ITT 50/020-L/20	50	230-330-430-530 630-730-830	20	22	10	5,5	11	187 A	260 A	320 A
ITT 75/020-L/20	75	230-330-430-530 630-730-830	20	22	10	7	11	238 A	320 A	400 A
ITT 120/020-L/32	120	230-330-430-530 630-730-830-930	32	32	15	7	11	340 A	460 A	565 A

INSULATED COPPER BRAIDS

bare copper braid - tinned terminals



Tin-plated copper tube terminals:

Single wire:

Black PVC insulation Self extinguishing:

Operating voltage:

Operating temperature:

Dielectric strenght:

Insulation thickness:

Current loads referred to rise temperature

Cu-DHP UNI EN 12499

Cu-ETP UNI EN 13602 - Ø 0,20 mm

UL 94 V0

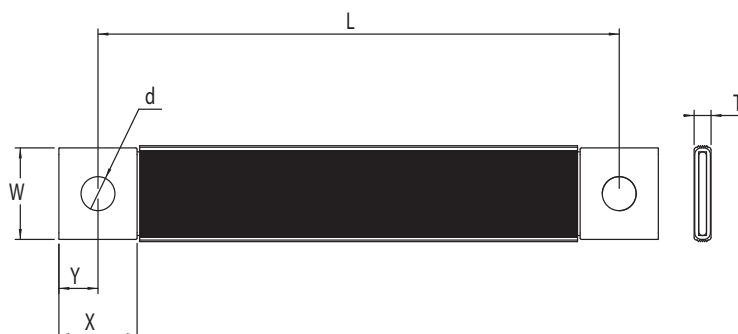
1000 V AC – 1500 V DC

-40/+105°C

20 kV/mm

1,6 – 2mm

ΔT following IEC 439 norm – Ta (Amb.Temp.) 35°C



Bare Copper braid	Cross-Sect.	L	W	X	Y	t	d Ø	Current load at		
tinned terminals	mm²	dimensions in mm.						ΔT °30C	ΔT °50C	ΔT °70C
IRT 16/020-L/12	16	230-330-430-530 630-730	12	14	7	3	6,5	93 A	127 A	153 A
IRT 25/020-L/12	25	230-330-430-530 630-730	12	14	7	5	6,5	120 A	160 A	200 A
IRT 25/020-L/20	25	230-330-430-530 630-730	20	22	10	3,7	9 -11	128 A	178 A	220 A
IRT 35/020-L/20	35	230-330-430-530 630-730	20	22	10	4,5	9 -11	153 A	212 A	260 A
IRT 50/020-L/20	50	230-330-430-530 630-730-830	20	22	10	5,5	11	187 A	260 A	320 A
IRT 75/020-L/20	75	230-330-430-530 630-730-830	20	22	10	7	11	238 A	320 A	400 A
IRT 120/020-L/32	120	230-330-430-530 630-730-830-930	32	32	15	7	11	340 A	460 A	565 A
IRT 240/020-L/32	240	230-330-430-530 630-730-830-930	32	32	15	12	13	500 A	680 A	840 A

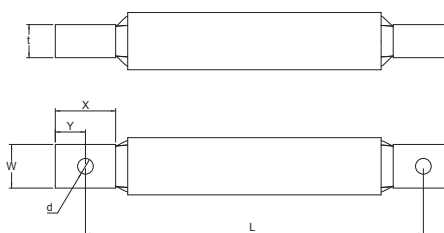
AIR COOLED CABLES

Single wire Cu-ETP UNI EN 13602 - Ø 0,20 mm

Twisted bare copper cable

Tubular tin-plated copper terminals Textile reinforced

rubber tube insulation Special insulation on demand



custom made and standard

Code	Cross- Sec- tion	W	X	Y	t	Ød	Drilling
item	mm ²	dimensions in mm.					
ACC 150 - L	150	32	50	16	8	13	P1
ACC 200 - L	200				10		
ACC 300 - L	300				14		
ACC 400 - L	400				18		
ACC 500 - L	500				22		
ACC 600 - L	600				26		

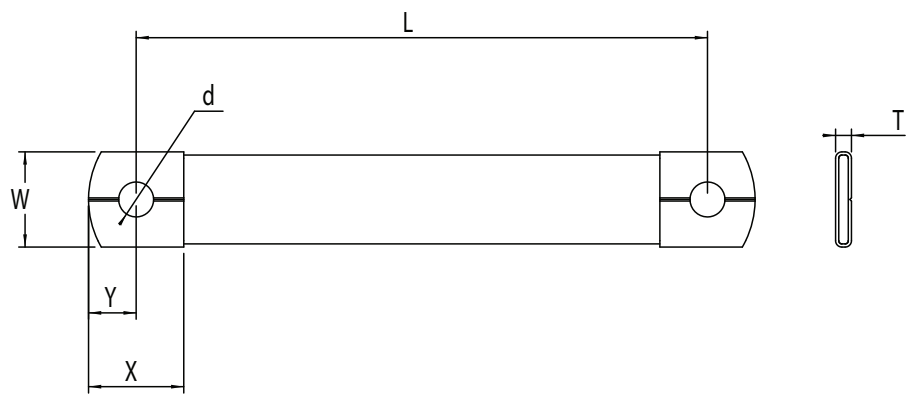
Code		L	W	X	Y	t	Ød
item	mm ²	dimensions in mm.					
ACC 300-250	300	250	50	32	16	14	13
ACC 300-300		300					
ACC 300-350		350					
ACC 300-400		400					
ACC 300-450		450					
ACC 300-500		500					
ACC 400-250	400	250	50	32	16	18	13
ACC 400-300		300					
ACC 400-350		350					
ACC 400-400		400					
ACC 400-450		450					
ACC 400-500		500					
ACC 500-300	500	300	50	32	16	22	13
ACC 500-350		350					
ACC 500-400		400					
ACC 500-450		450					
ACC 500-500		500					
ACC 500-600		600					
ACC 600-400	600	400	50	32	16	26	13
ACC 600-450		450					
ACC 600-500		500					
ACC 600-550		550					
ACC 600-600		600					
ACC 600-700		700					



EARTHING BRAIDS

Single wire Cu-ETP UNI EN 13602 - Ø 0,20 mm. (special wire on demand)
Bare or Tinned copper braid
Terminals in bare or tinned copper
Standard cross section from 6 mm² up to 75 mm² Customized solutions on demand

Build your own earthing braid following the drawing here below and the examples in the table



type	ross-sect. mm²	Wire mm.	L mm.	W mm.	X mm.	Y mm.	d Ø mm.	ordering CODE
ERR	16	0,20	150	17	23	13	9	ERR 16-17/150-9
ERT	25	0,20	300	23	23	13,5	9	ERT 25-23/300-9
ETT	50	0,20	550	30	30	15	11	ETT 50-30/550-11

BUILD YOUR EARTHING BRAID

EARTHING BRAIDS - standard

Code	Cross-Sect.	Single wire Ø	L	W	X	Y	d Ø	t	Current load
type	mm ²	dimensions in mm.							ΔT °50C

ERR

ERR 6-11/ L - 7	6	0,2	75-100-150	11	13	7	7	2	90 A
ERR 10-17/ L - 9	10	0,2	100-150 200-250-300	17	23	13	9	2	130 A
ERR 16-17/ L - 9	16	0,2	100-150 200-250-300	17	23	13	9	2,5	160 A
ERR 25-23/ L - 9	25	0,2	100-150 200-250-300	23	23	13,5	9	3,2	220 A
ERR 35-23/ L - 9	35	0,2	100-150 200-250-300	23	23	13,5	9	3,4	260 A
ERR 50-30/ L - 11	50	0,2	100-150 200-250-300	30	30	15	11	4,5	340 A
ERR 75-30/ L - 11	75	0,2	100-150 200-250-300	30	30	15	11	5	420 A

ERT

ERT 6-11/ L - 7	6	0,2	75-100 150	11	13	7	7	2	90 A
ERT 10-17/ L - 9	10	0,2	100-150 200-250-300	17	23	13	9	2	130 A
ERT 16-17/ L - 9	16	0,2	100-150 200-250-300	17	23	13	9	2,5	160 A
ERT 25-23/ L - 9	25	0,2	100-150 200-250-300	23	23	13,5	9	3,2	220 A
ERT 35-23/ L - 9	35	0,2	100-150 200-250-300	23	23	13,5	9	3,4	260 A
ERT 50-30/ L - 11	50	0,2	100-150 200-250-300	30	30	15	11	4,5	340 A
ERT 75-30/ L - 11	75	0,2	100-150 200-250-300	30	30	15	11	5	420 A

ETT

ETT 6-11/ L - 7	6	0,2	75-100 150	11	13	7	7	2	90 A
ETT 10-17/ L - 9	10	0,2	100-150 200-250-300	17	23	13	9	2	130 A
ETT 16-17/ L - 9	16	0,2	100-150 200-250-300	17	23	13	9	2,5	160 A
ETT 25-23/ L - 9	25	0,2	100-150 200-250-300	23	23	13,5	9	3,2	220 A
ETT 35-23/ L - 9	35	0,2	100-150 200-250-300	23	23	13,5	9	3,4	260 A
ETT 50-30/ L - 11	50	0,2	100-150 200-250-300	30	30	15	11	4,5	340 A
ETT 75-30/ L - 11	75	0,2	100-150 200-250-300	30	30	15	11	5	420 A

Complete current load values at page 31

CRIMPED LUG CONDUCTORS

Connections made by round braid or twisted cable with crimped cable lugs

Single wire: Cu-ETP UNI EN 1360 – 0,20 mm.

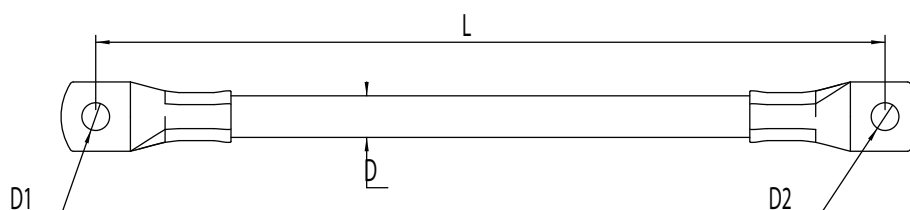
Copper tin-plated cable lugs: Cu-ETP UNI EN 13600

Special insulation on demand



ROUND COPPER BRAID

Bare Copper	Tin-Plated Copper	Cross-Sect.	Single wire Ø	L	useful for screw		Current load
		mm ²	mm.		d1	d2	ΔT 50°C
RRL 10/020-200/M6	RTL 10/020-200/M6	10	0,2	200	M6	M6	90 A
RRL 16/020-200/M8	RTL 16/020-200/M8	16	0,2	200	M8	M8	120 A
RRL 25/020-200/M8	RTL 25/020-200/M8	25	0,2	200	M8	M8	160 A
RRL 35/020-250/M10	RTL 35/020-250/M10	35	0,2	250	M10	M10	200 A
RRL 50/020-250/M10	RTL 50/020-250/M10	50	0,2	250	M10	M10	260 A
RRL 75/020-300/M12	RTL 75/020-300/M12	75	0,2	300	M12	M12	330 A
RRL 100/020-300/M12	RTL 100/020-300/M12	100	0,2	300	M12	M12	420 A
RRL 120/020-350/M12	RTL 120/020-350/M12	120	0,2	350	M12	M12	460 A
RRL 150/020-350/M12	RTL 150/020-350/M12	150	0,2	350	M12	M12	520 A



TWISTED COPPER CABLE

Bare Copper	Tin-Plated Copper	Cross-Sect.	Single wire Ø	L	useful for screw		Current load
		mm ²	mm.		d1	d2	ΔT 50°C
TRL 10/020-200/M6	TTL 10/020-200/M6	10	0,2	200	M6	M6	90 A
TRL 16/020-200/M8	TTL 16/020-200/M8	16	0,2	200	M8	M8	120 A
TRL 25/020-200/M8	TTL 25/020-200/M8	25	0,2	200	M8	M8	160 A
TRL 35/020-250/M10	TTL 35/020-250/M10	35	0,2	250	M10	M10	200 A
TRL 50/020-250/M10	TTL 50/020-250/M10	50	0,2	250	M10	M10	260 A
TRL 75/020-300/M12	TTL 75/020-300/M12	75	0,2	300	M12	M12	330 A
TRL 100/020-300/M12	TTL 100/020-300/M12	100	0,2	300	M12	M12	420 A
TRL 120/020-350/M12	TTL 120/020-350/M12	120	0,2	350	M12	M12	460 A
TRL 150/020-350/M12	TTL 150/020-350/M12	150	0,2	350	M12	M12	520 A

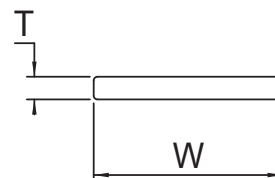
COPPER BRAIDS

Flat – Round – Twisted flexible cable



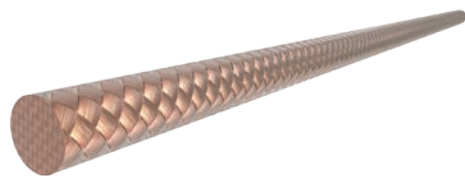
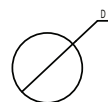
Single wire Cu-ETP UNI EN 13602 - Ø 0,20 mm. (special wire on demand) Bare Copper or Tinned copper braid
Standard cross section from 6 mm² up to 300 mm²

Other conductor and/or special braid materials and structure on demand
Packed in roll or reel depending of requested quantity



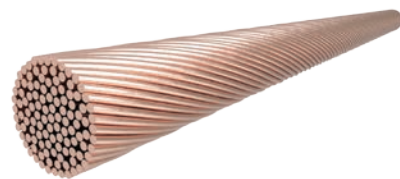
FLAT BRAIDS

Bare Copper	Tin-Plated Copper	Cross-Sect. mm ²	Single wire mm.	W mm.	t mm.	Current load ΔT 50°C
BFR 6/020-10	BFT 6/020-10	6	0,2	10	1,5	80 A
BFR 10/020-10	BFT 10/020-10	10	0,2	10	2	110 A
BFR 10/020-15	BFT 10/020-15	10	0,2	15	2	120 A
BFR 16/020-15	BFT 16/020-15	16	0,2	15	2,5	150 A
BFR 25/020-20	BFT 25/020-20	25	0,2	20	3,2	210 A
BFR 35/020-20	BFT 35/020-20	35	0,2	20	3,4	250 A
BFR 50/020-28	BFT 50/020-28	50	0,2	28	3,6	330 A
BFR 75/020-28	BFT 75/020-28	75	0,2	28	5	410 A
BFR 100/020-32	BFT 100/020-32	100	0,2	32	6	500 A
BFR 120/020-38	BFT 120/020-38	120	0,2	35	7	560 A
BFR 150/020-38	BFT 150/020-38	150	0,2	38	8	650 A
BFR 200/020-32	BFT 200/020-32	200	0,2	32	10	730 A
BFR 250/020-40	BFT 250/020-40	250	0,2	40	12,5	880 A
BFR 300/020-50	BFT 300/020-50	300	0,2	50	12	1020 A



ROUND BRAIDS

Bare Copper	Tin-Plated Copper	Cross-Sect. mm ²	Single wire mm.	d Ø mm.	Current load ΔT 50°C
BTR 6/020-4	BTT 6/020-4	6	0,2	3,5	70 A
BTR 10/020-5	BTT 10/020-5	10	0,2	4,3	90 A
BTR 16/020-6	BTT 16/020-6	16	0,2	5,8	120 A
BTR 25/020-8	BTT 25/020-8	25	0,2	7	160 A
BTR 35/020-9	BTT 35/020-9	35	0,2	8,1	200 A
BTR 50/020-11	BTT 50/020-11	50	0,2	10,5	260 A
BTR 75/020-13	BTT 75/020-13	75	0,2	12,5	330 A
BTR 100/020-1	BTT 100/020-1	100	0,2	12	420 A
BTR 120/020-18	BTT 120/020-18	120	0,2	16	460 A
BTR 150/020-20	BTT 150/020-20	150	0,2	17	520 A

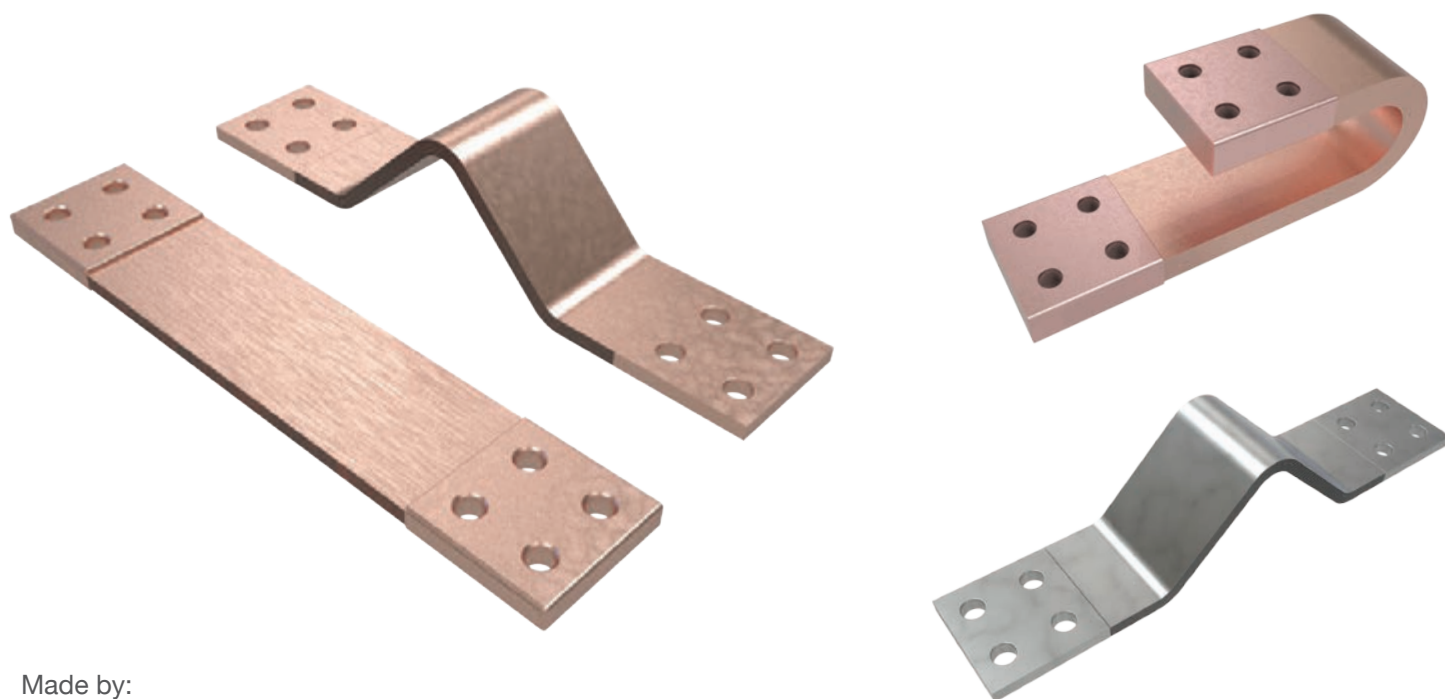


TWISTED FLEXIBLE CABLES

Bare Copper	Tin-Plated Copper	Cross-Sect. mm ²	Single wire mm.	d Ø mm.	Current load ΔT 50°C
BTR 6/020-4	BTT 6/020-4	6	0,2	3,5	70 A
BTR 10/020-5	BTT 10/020-5	10	0,2	4,3	90 A
BTR 16/020-6	BTT 16/020-6	16	0,2	5,8	120 A
BTR 25/020-8	BTT 25/020-8	25	0,2	7	160 A
BTR 35/020-9	BTT 35/020-9	35	0,2	8,1	200 A
BTR 50/020-11	BTT 50/020-11	50	0,2	10,5	260 A
BTR 75/020-13	BTT 75/020-13	75	0,2	12,5	330 A
BTR 100/020-1	BTT 100/020-1	100	0,2	12	420 A
BTR 120/020-18	BTT 120/020-18	120	0,2	16	460 A
BTR 150/020-20	BTT 150/020-20	150	0,2	17	520 A

LAMINATED FLEXIBLE SHUNTS

FOR DYNAMIC AND EXPANSION APPLICATIONS



Made by:

Cu-ETP (CW004A) EN 13599 R290 layers
for dynamic applications
with rivetted, press-tinned or presswelded terminals

Cu-HCP (CW021A) EN 13599 R220 layers
for expansion and compensation applications with presswelded and MIG welded terminals

Cu-ETP (CW004A) EN 13599 R220 layers
for expansion and compensation applications with rivetted or press-tinned terminals

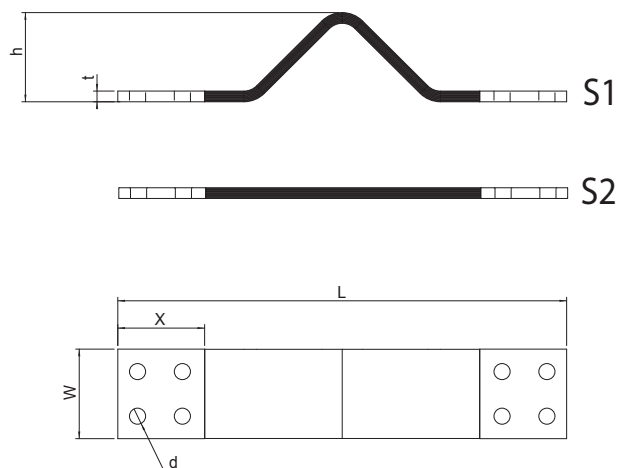
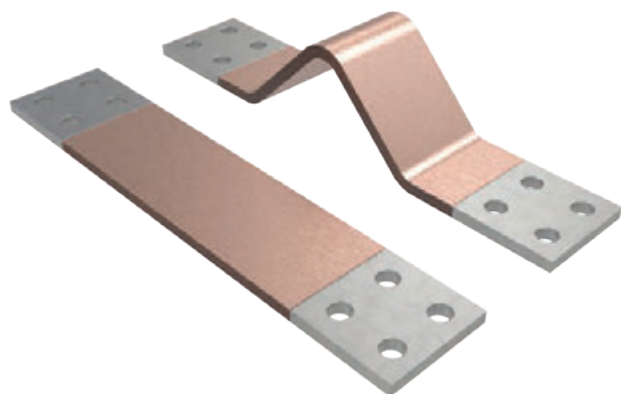
EN AW 1050A aluminium shunts on demand

Legenda

Type of application	Coating on layers	Coating on terminals	Insulation / Special Treatment	
M	R	R	HPE	Heat shrinkable sleeve
Moving	Bare Copper	Bare Copper	SIL	Silicone sleeve
P	T	T	GFI	Glass Fiber Insulation
Expansion	Tin Plating	Tin Plating	HTD	Hot Tin Dipped Terminals
S	S	S	W	Presswelded Terminals
Special	Silver Plating	Silver Plating		
	N	N		
	Nickel Plating	Nickel Plating		

LAMINATED SHUNTS PRESS TINNED TERMINALS

Expansion and Compensation Shunts
Bare copper or Tinned copper laminates - Press-tinned terminals
Cu-ETP (CW004A) EN 13599 R220 strips, thickness 0,2 mm.
Special dimensions and design on request
Insulation on demand
Galvanic coating on demand



Bare Copper	Tin-Plated Copper		W	X	t	L	h (S1)	d	Drilling	Current load at ΔT		
		mm²	dimensions in mm.							ΔT 30°C	ΔT 50°C	ΔT 70°C
PRT 100-200 S1	PTT 100-200 S1	100	50	50	2	200	30	13	P1	400 A	550 A	680 A
PRT 150-250 S1	PTT 150-250 S1	150	50	50	3	250	40	13	P1	490 A	680 A	840 A
PRT 200-300 S1	PTT 200-300 S1	200	50	50	4	300	50	13	P1	570 A	790 A	970 A
PRT 250-300 S1	PTT 250-300 S1	250	50	50	5	300	50	13	P1	650 A	890 A	1100 A
PRT 400-400 S1	PTT 400-400 S1	400	80	80	5	400	70	13	P4	950 A	1320 A	1620 A
PRT 500-400 S1	PTT 500-400 S1	500	80	80	6,3	400	70	13	P4	1070 A	1480 A	1820 A
PRT 600-400 S1	PTT 600-400 S1	600	80	80	7,5	400	70	13	P4	1180 A	1630 A	2000 A
PRT 800-400 S1	PTT 800-400 S1	800	80	80	10	400	70	13	P4	1380 A	1900 A	2330 A
PRT 1000-450 S1	PTT 1000-450 S1	1000	100	100	10	450	70	13	P5	1660 A	2280 A	2800 A
PRT 1200-450 S1	PTT 1200-450 S1	1200	100	100	12	450	70	13	P5	1830 A	2520 A	3090 A
PRT 1500-500 S1	PTT 1500-500 S1	1500	120	120	12,5	500	70	13	P7	2170 A	2990 A	3670 A
PRT 1800-500 S1	PTT 1800-500 S1	1800	120	120	15	500	70	13	P7	2390 A	3300 A	4050 A
PRT 2000-500 S1	PTT 2000-500 S1	2000	120	120	16,7	500	70	13	P7	2530 A	3490 A	4290 A

LAMINATED SHUNTS PRESSWELDED TERMINALS

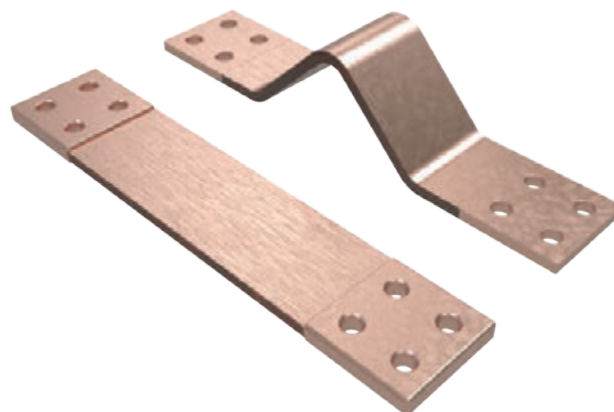
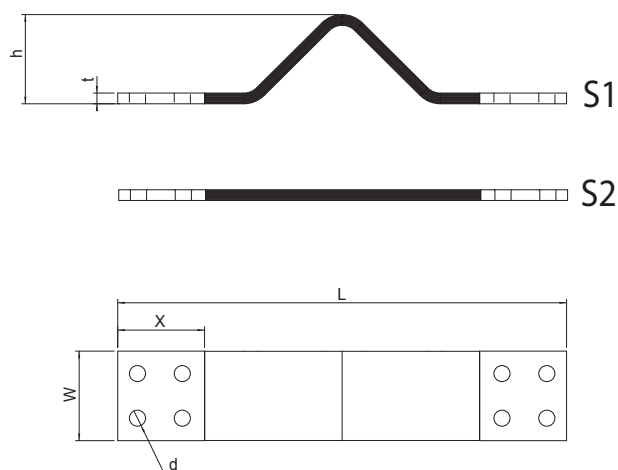
Expansion and Compensation Shunts

Bare copper or Tinned copper laminates - Press-tinned terminals

Cu-HCP (CW021A) EN 13599 R220 strips, thickness 0,2 mm

Special dimensions and design on demand

Insulation on demand Galvanic coating on demand

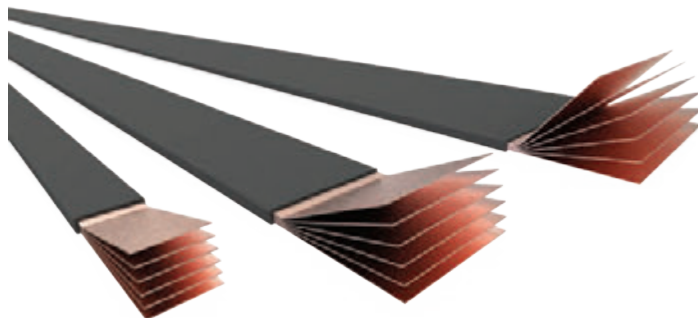


Bare Copper		W	X	t	L	h (S1)	d	Drilling	Current load at ΔT		
	mm ²	dimensions in mm.							ΔT C°30	ΔT C°50	ΔT C°70
PRW 100-200 S1	100	50	50	2	200	30	13	P1	400 A	550 A	680 A
PRW 150-250 S1	150	50	50	3	250	40	13	P1	490 A	680 A	840 A
PRW 200-300 S1	200	50	50	4	300	50	13	P1	570 A	790 A	970 A
PRW 250-300 S1	250	50	50	5	300	50	13	P1	650 A	890 A	1100 A
PRW 400-400 S1	400	80	80	5	400	70	13	P4	950 A	1320 A	1620 A
PRW 500-400 S1	500	80	80	6,3	400	70	13	P4	1070 A	1480 A	1820 A
PRW 600-400 S1	600	80	80	7,5	400	70	13	P4	1180 A	1630 A	2000 A
PRW 800-400 S1	800	80	80	10	400	70	13	P4	1380 A	1900 A	2330 A
PRW 1000-450 S1	1000	100	100	10	450	70	13	P5	1660 A	2280 A	2800 A
PRW 1200-450 S1	1200	100	100	12	450	70	13	P5	1830 A	2520 A	3090 A
PRW 1500-500 S1	1500	120	120	12,5	500	70	13	P7	2170 A	2990 A	3670 A
PRW 1800-500 S1	1800	120	120	15	500	70	13	P7	2390 A	3300 A	4050 A
PRW 2000-500 S1	2000	120	120	16,7	500	70	13	P7	2530 A	3490 A	4290 A

INSULATED FLEXIBLE BARS

Bare copper – standard length 2 mt.

Single strip	Cu-ETP UNI EN 1652
Self extinguishing	UL 94 V0 black PVC insulation
Operating voltage	1000 V AC – 1500 V DC
Operating temperature	-40/+105 °C
Dielectric strenght	20 kV/mm
Insulation thickness:	1,6 - 2 mm
Halogen free / Silicon Insulation	on demand
Standard bar length: 2 meters - specials	on demand
Tin-plated Copper or Aluminium flexible bars	on demand



Referred to ambient temperature of 35°C following DIN 43671 norm

Current load is referred to : conductor temperature = > temperature rise ΔT + ambient temperature of 35°C

Using bars in parallel please apply a derating coefficient K^*

example :	40x1x5 In at ΔT 50°C	= 736 A
	for n° 2 bars 40x1x5 in parallel In	= 736 A x 1,72 = 1265 A
	for n° 3 bars 40x1x5 in parallel In	= 736 A x 2,25 = 1656 A

Short circuit current (Icc) for Insulated flexible bars parameters :

One flexible element per phase

Initial temperature: 105 °C

Final temperature: 160 °C

Final temperature: 140 °C

maximal operating temperature of the conductor

temperature limit of the insulation material PVC in accordance with IEC 60724 if cross section < 300mm²

temperature limit of the insulation material PVC in accordance with IEC 60724 if cross section > 300mm²



Icc: value of short circuit current in kA - t = 1 s (duration of short circuit in seconds) Approval:

Bare copper	Width		Thick.		Strips	Cross Section	Current Load at			K *		Icc
code	.mm		.mm			mm ²	ΔT C°30	ΔT C°50	ΔT C°70	n° 2	n° 3	kA
IFB 24-4	24	x	1	x	4	96	322 A	438 A	532 A	1,72	2,25	8,35
IFB 24-5	24	x	1	x	5	120	363 A	494 A	600 A	1,72	2,25	10,43
IFB 24-6	24	x	1	x	6	144	402 A	547 A	664 A	1,72	2,25	12,52
IFB 24-8	24	x	1	x	8	192	470 A	641 A	779 A	1,72	2,25	16,7
IFB 24-10	24	x	1	x	10	240	534 A	727 A	883 A	1,72	2,25	20,87
IFB 32-2	32	x	1	x	2	64	280 A	382 A	463 A	1,72	2,25	5,57
IFB 32-3	32	x	1	x	3	96	346 A	470 A	572 A	1,72	2,25	8,35
IFB 32-4	32	x	1	x	4	128	402 A	548 A	668 A	1,72	2,25	11,13
IFB 32-5	32	x	1	x	5	160	453 A	617 A	749 A	1,72	2,25	13,91
IFB 32-6	32	x	1	x	6	192	500 A	680 A	826 A	1,72	2,25	16,7
IFB 32-8	32	x	1	x	8	256	583 A	793 A	963 A	1,72	2,25	22,26
IFB 32-10	32	x	1	x	10	320	657 A	894 A	1085 A	1,72	2,25	22,5
IFB 40-2	40	x	1	x	2	80	337 A	458 A	556 A	1,72	2,25	6,96
IFB 40-3	40	x	1	x	3	120	415 A	565 A	686 A	1,72	2,25	10,44
IFB 40-4	40	x	1	x	4	160	480 A	655 A	796 A	1,72	2,25	13,91

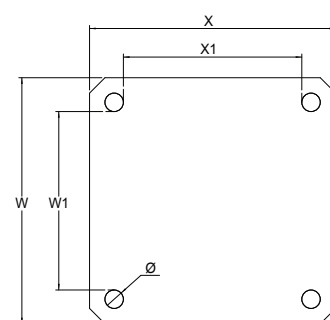
INSULATED FLEXIBLE BARS

Bare copper	Width		Thick.		Strips	Cross Section	Current Load at			K *		Icc
IFB 40-5	40	x	1	x	5	200	540 A	736 A	894 A	1,72	2,25	17,39
IFB 40-6	40	x	1	x	6	240	594 A	809 A	982 A	1,72	2,25	20,87
IFB 40-8	40	x	1	x	8	320	690 A	939 A	1140 A	1,72	2,25	22,5
IFB 40-10	40	x	1	x	10	400	774 A	1053 A	1279 A	1,65	2,12	28,12
IFB 50-3	50	x	1	x	3	150	498 A	679 A	824 A	1,72	2,25	13,04
IFB 50-4	50	x	1	x	4	200	577 A	786 A	954 A	1,72	2,25	17,39
IFB 50-5	50	x	1	x	5	250	645 A	880 A	1058 A	1,72	2,25	21,1
IFB 50-6	50	x	1	x	6	300	709 A	965 A	1170 A	1,65	2,12	21,74
IFB 50-8	50	x	1	x	8	400	818 A	1114 A	1352 A	1,65	2,12	28,12
IFB 50-10	50	x	1	x	10	500	914 A	1244 A	1510 A	1,72	2,12	35,15
IFB 63-3	63	x	1	x	3	189	604 A	823 A	998 A	1,65	2,12	16,44
IFB 63-4	63	x	1	x	4	252	698 A	960 A	1153 A	1,65	2,12	21,92
IFB 63-5	63	x	1	x	5	315	779 A	1050 A	1288 A	1,65	2,12	22,14
IFB 63-6	63	x	1	x	6	378	852 A	1159 A	1408 A	1,65	2,12	26,57
IFB 63-8	63	x	1	x	8	504	978 A	1332 A	1617 A	1,65	2,12	35,43
IFB 63-10	63	x	1	x	10	630	1088 A	1480 A	1796 A	1,65	2,12	44,29
IFB 80-3	80	x	1	x	3	240	729 A	1005 A	1220 A	1,65	2,12	20,88
IFB 80-4	80	x	1	x	4	320	850 A	1158 A	1405 A	1,65	2,12	22,5
IFB 80-5	80	x	1	x	5	400	947 A	1289 A	1565 A	1,65	2,12	28,12
IFB 80-6	80	x	1	x	6	480	1032 A	1404 A	1705 A	1,65	2,12	33,74
IFB 80-8	80	x	1	x	8	640	1179 A	1504 A	1948 A	1,65	2,12	44,99
IFB 80-10	80	x	1	x	10	800	1305 A	1776 A	2156 A	1,65	2,12	56,24
IFB 100-4	100	x	1	x	4	400	1089 A	1480 A	1799 A	1,6	2,02	29,55
IFB 100-5	100	x	1	x	5	500	1135 A	1545 A	1878 A	1,6	2,02	35,15
IFB 100-6	100	x	1	x	6	600	1235 A	1680 A	2040 A	1,6	2,02	42,18
IFB 100-8	100	x	1	x	8	800	1404 A	1912 A	2320 A	1,6	2,02	56,24
IFB 100-10	100	x	1	x	10	1000	1550 A	2110 A	2562 A	1,6	2,02	70,3
IFB 100-12	100	x	1	x	12	1200	1680 A	2267 A	2776 A	1,6	2,02	84,36
IFB 120-4	120	x	1	x	4	480	1135 A	1544 A	1875 A	1,6	2,02	33,98
IFB 120-5	120	x	1	x	5	600	1358 A	1848 A	2244 A	1,6	2,02	40,42
IFB 120-6	120	x	1	x	6	720	1420 A	1932 A	2345 A	1,6	2,02	48,5
IFB 120-8	120	x	1	x	8	960	1614 A	2198 A	2668 A	1,5	1,95	64,68
IFB 120-10	120	x	1	x	10	1200	1848 A	2490 A	3053 A	1,5	1,95	80,85

CABLING ACCESSORIES

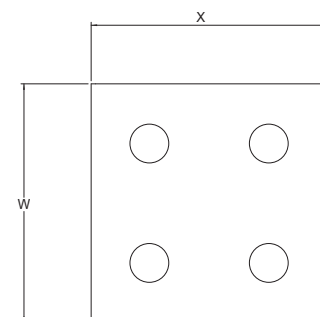
BUSBAR CLAMPS

Code	X1 - W1	X - W	Ø - M	Screws	torque
	dimensions in mm.			M x length	Nm
TBC 25	25x20	45x40	6,5-M6	M6x35	8 Nm
TBC 22	20x20	40x40	6,5-M6	M6x35	8 Nm
TBC 32	32x32	52x52	6,5-M6	M6x35	8 Nm
TBC 42	40x20	60x40	6,5-M6	M6x35	8 Nm
TBC 43	40x32	60x52	6,5-M6	M6x35	8 Nm
TBC 44	40x40	60x60	6,5-M6	M6x35	8 Nm
TBC 52	50x20	75x45	8,5-M8	M8x35	20 Nm
TBC 54	50x40	75x65	8,5-M8	M8x36	20 Nm
TBC 55	50x50	75x75	8,5-M8	M8x37	20 Nm
TBC 63	63x32	88x57	8,5-M8	M8x38	20 Nm
TBC 64	63x40	88x65	8,5-M8	M8x39	20 Nm
TBC 66	63x63	88x88	8,5-M8	M8x40	20 Nm
TBC 84	80x40	115x75	10,5-M10	M10x35	40 Nm
TBC 88	80x80	115x115	10,5-M10	M10x35	40 Nm
TBC 104	100X40	135X75	10,5-M10	M10x35	40 Nm
TBC 106	100X63	135X98	10,5-M10	M10x35	40 Nm
TBC 110	100x100	135x135	10,5-M10	M10x35	40 Nm



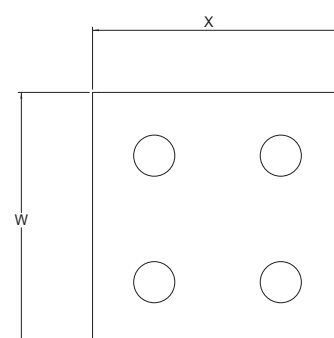
BIMETAL PLATES Cu-Al

Code		Holes	X	W	Tickness
Drilled	Undrilled	dimensions in mm.			
TDB 30	TUB 30	P1	30	30	1
TDB 40	TUB 40	P1	40	40	1
TDB 50	TUB 50	P1	50	50	1
TDB 60	TUB 60	P1	60	60	1
TDB 80	TUB 80	P4	80	80	1
TDB 100	TUB 100	P5	100	100	1
TDB 120	TUB 120	P7	120	120	1



TINNED COPPER PLATE

Code		Holes	X	W	Tickness
Drilled	Undrilled	dimensions in mm.			
TDB 30	TUB 30	P1	30	30	5
TDB 40	TUB 40	P1	40	40	5
TDB 50	TUB 50	P1	50	50	5
TDB 60	TUB 60	P1	60	60	5
TDB 80	TUB 80	P4	80	80	5
TDB 100	TUB 100	P5	100	100	5
TDB 120	TUB 120	P7	120	120	5



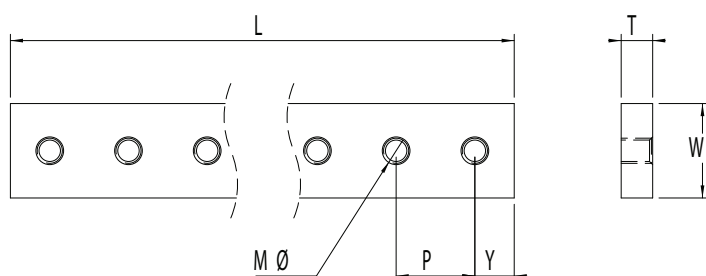
THREADED COPPER BARS

Cu-ETP UNI EN 13601 copper busbars

Flat copper bars – 1 mm radius edge

Tin-plated, silver-plated and nickel-plated on demand

Special lengths and dimensions on demand



Code	Cross section	W x T	L	P	Y	threaded hole	Current load at ΔT	
	mm²	dimensions in mm.					°30 ΔT C	°50 ΔT C
CTB 12-2/1	24	12x2	990	18	9	M5	106	142
CTB 12-4/1	48	12x4	990	18	9	M5	160	210
CTB 12-5/1	60	12x5	990	18	9	M5	182	240
CTB 15-4/1	60	15x4	1000	20	10	M6	188	248
CTB 15-5/1	75	15x5	1000	25	12,5	M6	216	286
CTB 20-4/1	80	20x4	1000	20	10	M6	230	304
CTB 20-5/1	100	20X5	1000	25	12,5	M6	274	362
CTB 25-4/1	100	25X4	1000	20	10	M6	288	380
CTB 30-5/1	150	30X5	1000	25	12,5	M6	378	502
CTB 32-5/1	160	32x5	1000	25	12,5	M6	400	530
CTB 30-10/1	300	30x10	1000	25	12,5	M8	572	754
CTB 12-2/2	24	12x2	1998	18	9	M5	106	142
CTB 12-4/2	48	12x4	1998	18	9	M5	160	210
CTB 12-5/2	60	12x5	1998	18	9	M5	182	240
CTB 15-4/2	60	15x4	2000	20	10	M6	188	248
CTB 15-5/2	75	15x5	2000	25	12,5	M6	216	286
CTB 20-4/2	80	20x4	2000	20	10	M6	230	304
CTB 20-5/2	100	20X5	2000	25	12,5	M6	274	362
CTB 25-4/2	100	25X4	2000	20	10	M6	288	380
CTB 30-5/2	150	30X5	2000	25	12,5	M6	378	502
CTB 32-5/2	160	32x5	2000	25	12,5	M6	400	530
CTB 30-10/2	300	30x10	2000	25	12,5	M8	572	754

LV – MV HEAT SHRINKABLE SLEEVE



Physical

Crosslinked polyolefin

Tensile strength	12 N/mm ² (min.)	ASTM D638
Ultimate elongation	300% (min.)	ASTM D638
Water absorption	0,5 % (max.)	ASTM D570
Density	1,2 ± 0,2 gm/cm ³	ASTM D792
Hardness	45 ± 10 shore D	ASTM D2240

Thermal

Accelerate ageing (a+b)	120°C x 500 hrs	ASTM D2671
Tensile strength (a)	10 N/mm ² (min.)	ASTM D638
Ultimate elongation (b)	250% (min.)	ASTM D638
Low temperature flexibility	(- 40° C x 4 hrs) No cracking	ASTM D2671
Shock termico / Heat shock	(250°C x 30 min.) No cracking	ESI 09-11
Shrink temperature	125°C	IEC 216
Continuos temperature limit	- 55°C +125°C (GSC)	IEC 216
Continuos temperature limit	- 40°C +115°C (GMB - GHB)	IEC 216



Electrical

Dielectric strength	22 kV/mm (min.)	ASTM D149
Volume resistivity	1x10 ¹⁴ Ohm.cm (min.)	ASTM D257



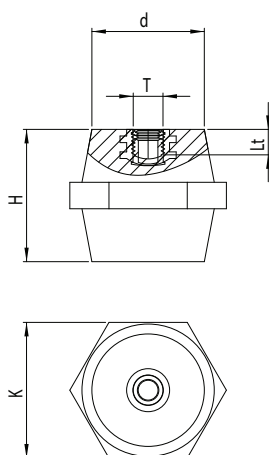
Voltage	Clearance with insulation				Clearance
	Medium wall tube GMB		Heavy wall tube GHB		without insulation
	phase to phase	phase to ground	phase to phase	phase to ground	
12 kV	65 mm	75 mm	35 mm	45 mm	120 mm
17,5 kV	85 mm	105 mm	55 mm	65 mm	160 mm
24 kV	115 mm	150 mm	70 mm	100 mm	220 mm
36 kV	200 mm	285 mm	140 mm	190 mm	320 mm

LV – MV HEAT SHRINKABLE SLEEVE

	D min.	d max.	t ± 10%	Rectangular bar W+B		Round bar Ø		Pack.
Code	dimensions in mm.			min.	max.	min.	max.	mt
LOW VOLTAGE BLACK COLOR 1,5 kVolt								
GSC 1.5/0.75	1,5	0,75	0,28	=	=	=	=	200
GSC 2.5/1.2	2,5	1,2	0.44	=	=	=	=	200
GSC 4/2	4	2	0,44	=	=	=	=	200
GSC 6/3	6	3	0,56	=	=	=	=	100
GSC 10/5	10	5	0,56	=	=	=	=	100
GSC 12.7/6.35	12,7	6,35	0,56	=	=	=	=	100
GSC 16/8	15	7,5	0,69	12	18	8	12	100
GSC 20/10	20	10	0,78	16	25	12	16	100
GSC 25/12.5	25	12,5	0,78	20	31	14	20	50
GSC 30/15	30	15	0,86	23	38	18	24	50
GSC 40/20	40	20	0,6	34	52	23	33	50
GSC 50/25	50	25	0,96	43	65	28	41	25
GSC 76/38	76	38	1,27	63	97	44	62	25
GSC 100/50	100	50	1,4	102	125	55	80	25
GCS 150/75	150	75	1,4	119	190	80	121	25
MEDIUMVOLTAGE RED BRICK COLOR 24 kVolt								
GMB 16/6	16	6	2	12	18	6,5	12	25
GMB 25/8	25	8	2,5	16	30	9	20	25
GMB 30/12	30	12	2,5	22	38	13,5	25	25
GMB 40/16	40	16	2,5	29	50	18	32	25
GMB 50/20	50	20	2,5	36	63	22	40	25
GMB 65/25	65	25	2,7	46	82	28	52	25
GMB 75/28	75	28	3	55	94	33	60	25
GMB 85/32	85	32	3	58	107	37	68	25
GMB 100/38	100	38	3	70	126	44	80	25
GMB 120/45	120	45	3	90	150	55	96	15
GMB 150/60	150	60	3	110	200	70	127	15
GMB 180/70	180	70	3	125	226	80	144	15
GMB 205/85	205	85	3	200	257	127	164	15
GMB 250/120	250	120	3	220	314	140	200	15
MEDIUMVOLTAGE RED BRICK COLOR 36 kVolt								
GHB 25/8	25	8	3.7	17	28	11	20	25
GHB 30/12	30	12	4.0	21	33	15	25	25
GHB 40/16	40	16	4.0	28	45	15	32	25
GHB 50/20	50	20	4.0	34	54	24	40	25
GHB 65/25	65	25	4.0	41	62	27	43	25
GHB 75/28	75	28	4.0	47	69	28	47	20
GHB 85/32	85	32	4.0	58	100	37	68	20
GHB 100/38	100	38	4.2	69	102	44	72	20
GHB 120/45	120	45	4.2	83	125	50	85	15
GHB 150/60	150	60	4.5	102	168	65	105	15
GHB 180/70	180	70	4.5	133	196	85	125	15
GHB 205/85	205	85	4.5	200	250	127	164	15

BMC SPACING INSULATORS

Code	dimensions mm.				Vn AC/DC	packaging
	H	K	T	Lt	Volt	pcs
IPM 20 M(T)-19	20	hex 19	M4 - M5 M6-M8	5	600	50
IPM 25 M(T)-19	25	hex 19	M4 - M5 M6-M8	8	600	50
IPM 30 M(T)-30	30	hex 30	M6-M8 M10-M12	9	750	50
IPM 35 M(T)-32	35	hex 32	M6-M8 M10-M12	11	750	50
IPM 36 M(T)-41	36	hex 41	M6-M8 M10-M12	11	1.000	25
IPM 40 M(T)-32	40	hex 32	M6-M8 M10-M12	11	1000	25
IPM 40 M(T)-46	40	hex 46	M6-M8 M10-M12	11	1.000	25
IPM 45 M6(T)-36	45	hex 36	M6-M8 M10-M12	15	1.000	25
IPM 45 M(T)-46	45	hex 46	M6-M8 M10-M12	15	1.000	25
IPM 50 M(T)-36	50	hex 36	M6-M8 M10-M12	15	1500	25
IPM 50 M(T)-50	50	hex 50	M6-M8 M10-M12	15	1.500	25
IPM 55 M(T)-55	55	hex 55	M6-M8 M10-M12	15	1.500	25
IPM 60 M(T)-55	60	hex 55	M6-M8 M10-M12	15	1.500	10
IPM 63 M(T)-41	63	hex 41	M6-M8 M10-M12	15	1.500	10
IPM 65 M(T)-56	65	hex 56	M6-M8 M10-M12	15	2.000	10
IPM 70 M(T)-65	70	hex 65	M6-M8 M10-M12-	15	2.000	10
IPM 75 M(T)-50	75	hex 50	M8 M10- M12-M16	15	2.000	5
IPM 75 M(T)-65	75	oct 65	M8 M10- M12-M16	15	2.000	5
IPM 80 M(T)-65	80	hex 65	M8 M10- M12-M16	15	3.600	5
IPM 100 M(T)-65	100	oct 65	M8 M10- M12-M16	15	3.600	5



Polyester resin

Bulk Moulding Compound

Colour

RAL 3002

Glass fiber content

20% (±2%)

Working temperature

-40° C / +110° C

Fire resistance

UL94 Classe V0 3,2 mm

Glow wire GWFI

IEC 60695-2-12

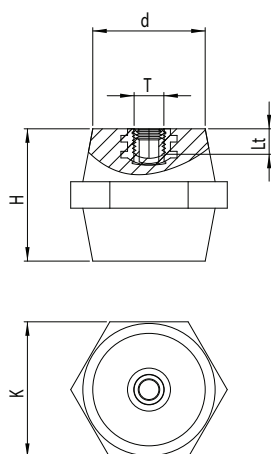
960° C - 2 mm

Arc resistance

ASTM D 495 >180 S

POLYAMIDE SPACING INSULATORS

Code	dimensions mm.				Vn AC/DC	packaging
	H	K	T	Lt	Volt	pcs
IPA 12 M(T)-8	12	hex 8	M3	3,5	250	100
IPA 15 M(T)-14	15	oct 14	M4-M5	4,5	250	100
IPA 16 M(T)-14	16	oct 14	M4-M5	4,5	250	100
IPA 20 M(T)-17	20	hex 17	M4-M5 M6	5	400	100
IPA 25 M(T)-19	25	hex 19	M4-M5 M6	8	600	100
IPA 30 M(T)-30	30	hex 30	M6-M8 M10-M12	9	750	50
IPA 35 M(T)-32	35	hex 32	M6-M8 M10-M12	11	750	50
IPA 35 M(T)-41	35	hex 41	M6-M8 M10-M12	11	1000	50
IPA 40 M(T)-32	40	hex 32	M6-M8 M10-M12	11	1000	50
IPA 40 M(T)-46	40	hex 46	M6-M8 M10-M12	11	1000	25
IPA 45 M(T)-41	45	oct 41	M6-M8 M10-M12	15	1000	25
IPA 45 M(T)-46	45	hex 46	M6-M8 M10-M12	15	1000	25
IPA 50 M(T)-36	50	hex 36	M6-M8 M10-M12	15	1500	25
IPA 50 M(T)-50	50	hex 50	M6-M8 M10-M12	15	1500	25
IPA 55 M(T)-55	55	hex 55	M6-M8 M10-M12	15	1500	25
IPA 60 M(T)-54	60	oct 54	M8-M10 M12	15	1500	10
IPA 63 M(T)-41	63	hex 41	M8-M10 M12	15	1500	10
IPA 75 M(T)-50	75	hex 50	M8-M10 M12-M16	15	2000	10
IPA 100 M(T)-65	100	oct 65	M8-M10 M12-M16	15	3600	5



Polyammide 6

Colour

RAL 3003

Fibers content

30% (±2%)

Working temperature

-40° C / +120° C

Fire resistance

UL94 Classe V0 3,2 mm

Glow wire GWFI

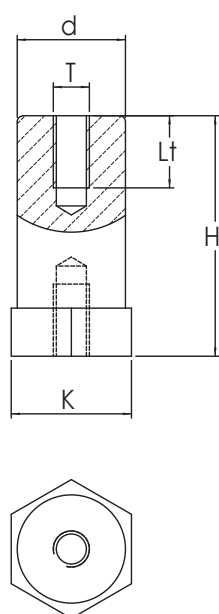
IEC 60695-2-12
960° C - 2 mm

Arc resistance

ASTM D 495 >180 S

BMC SPACING COLUMNS

Code	dimensions mm.				Vn AC/ DC Volt	packaging pcs
	H	K	T	Lt		
CPM 16 M(T)-20	16	hex 20	M4-M5 M6-M8	4,5	400	100
CPM 20 M(T)-20	20	hex 20	M4-M5 M6-M8	5	600	100
CPM 25 M(T)-20	25	hex 20	M5-M6 -M8	8	600	100
CPM 30 M(T)-20	30	hex 20	M5-M6 -M8	9	600	100
CPM 35 M(T)-20	35	hex 20	M5-M6 -M8	9	600	100
CPM 40 M(T)-20	40	hex 20	M5-M6 -M8	9	600	100
CPM 45 M(T)-20	45	hex 20	M5-M6 -M8	9	600	100
CPM 50 M(T)-20	50	hex 20	M5-M6 -M8	9	750	100
CPM 55 M(T)-20	55	hex 20	M5-M6 -M8	9	750	100
CPM 60 M(T)-20	60	hex 20	M5-M6 -M8	9	750	100
CPM 65 M(T)-20	65	hex 20	M5-M6 -M8	9	750	100
CPM 70 M(T)-20	70	hex 20	M5-M6 -M8	9	750	100



Polyester resin

Bulk Moulding Compound

Colour

RAL 3002

Glass fiber content

20% ($\pm 2\%$)

Working temperature

-40° C / +110° C

Fire resistance

UL94 Classe V0 3,2 mm

Glow wire GWFI

IEC 60695-2-12

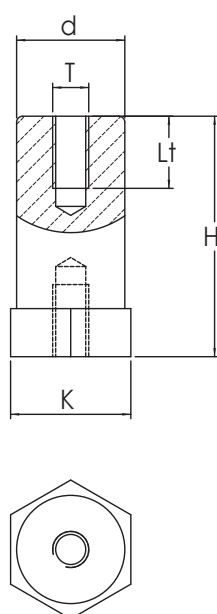
960° C - 2 mm

Arc resistance

ASTM D 495 >180 S

POLYAMIDE SPACING COLUMNS

Code	dimensions mm.				Vn AC/ DC	packaging
	H	K	T	Lt	Volt	pcs
CPA 30 M(T)-30	30	hex 30	M6-M8 M10-M12	9	750	25
CPA 35 M(T)-30	35	hex 30	M6-M8 M10-M12	11	750	25
CPA 40 M(T)-30	40	hex 30	M6-M8 M10-M12	11	1.000	25
CPA 45 M(T)-30	45	hex 30	M6-M8 M10-M12	15	1.000	25
CPA 50 M(T)-30	50	hex 30	M6-M8 M10-M12	15	1.500	25
CPA 55 M(T)-30	55	hex 30	M6-M8 M10-M12	15	1.500	25
CPA 60 M(T)-30	60	hex 30	M6-M8 M10-M12	15	1.500	25
CPA 65 M(T)-30	65	hex 30	M6-M8 M10-M12	15	1.500	25
CPA 70 M(T)-30	70	hex 30	M6-M8 M10-M12	15	1.500	25
CPA 30 M(T)-41	30	hex 41	M6-M8 M10-M12	9	750	25
CPA 35 M(T)-41	35	hex 41	M6-M8 M10-M12	11	750	25
CPA 40 M(T)-41	40	hex 41	M6-M8 M10-M12	11	1.000	20
CPA 45 M(T)-41	45	hex 41	M6-M8 M10-M12	15	1.000	20
CPA 50 M(T)-41	50	hex 41	M6-M8 M10-M12	15	1.500	20
CPA 55 M(T)-41	55	hex 41	M6-M8 M10-M12	15	1.500	20
CPA 60 M(T)-41	60	hex 41	M6-M8 M10-M12	15	1.500	20
CPA 65 M(T)-41	65	hex 41	M6-M8 M10-M12	15	1.500	20
CPA 70 M(T)-41	70	hex 41	M6-M8 M10-M12 M16	15	1.500	20



Polyamide 6

Colour RAL 3003

Fibers content 30% ($\pm 2\%$)

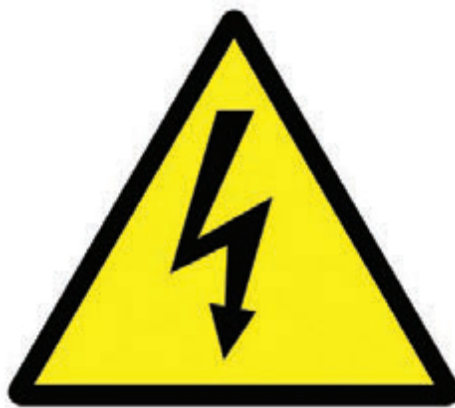
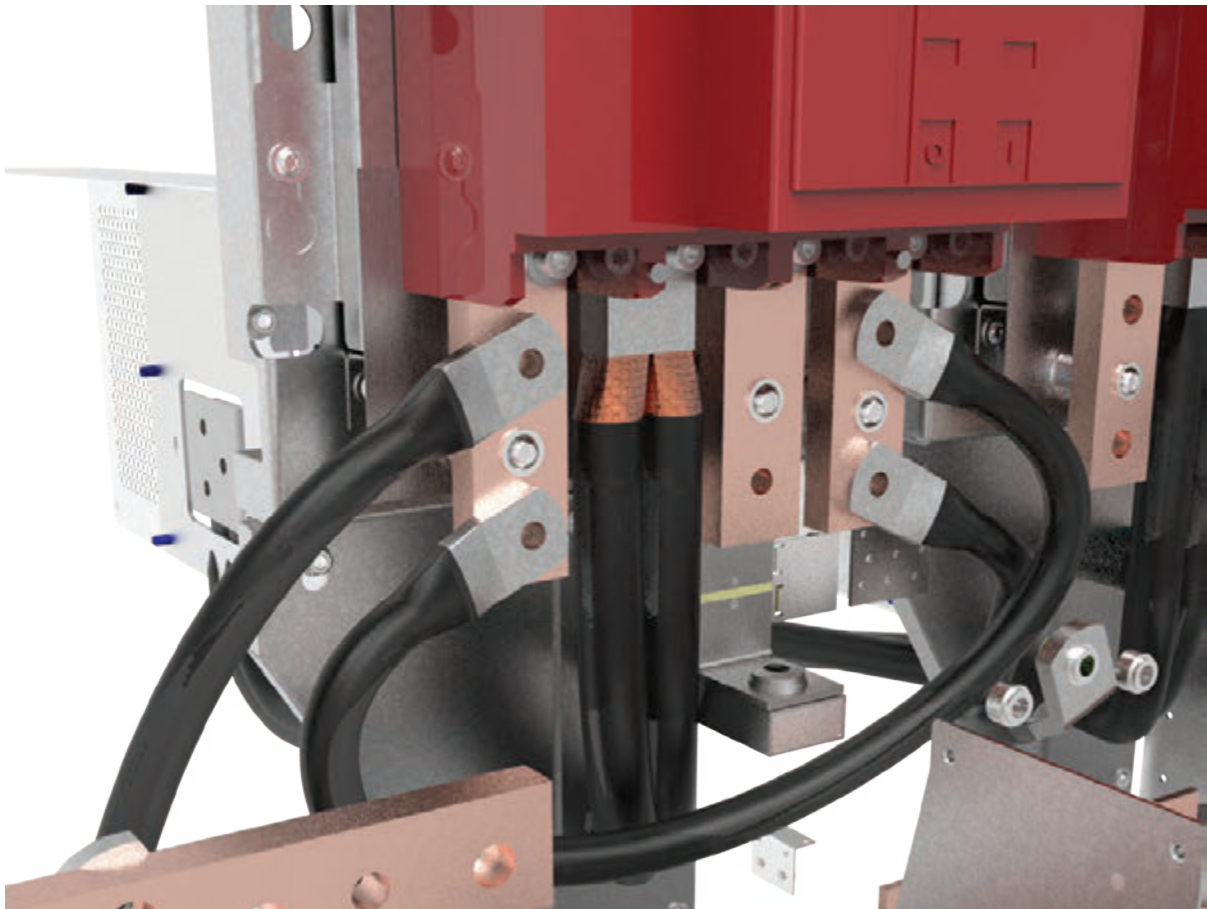
Working temperature
-40° C / +120° C

Fire resistance
UL94 Classe V0 3,2 mm

Glow wire GWFI IEC 60695-2-12
960° C - 2 mm

Arc resistance
ASTM D 495 >180 S

TECHNICAL DATA



Current loads for all conductors in this catalogue are referred to an Ambient Temperature – > Ta of 35°C

ΔT it's the temperature rise allowed on the conductor

Final temperature on the conductor will be -> $T = T_a + \Delta T$

COPPER BRAIDS

FLAT BRAIDS

	Wire Ø	W	t	In Amp - Ta 35°C current load referred to ΔT		
mm ²	mm.			C°30 ΔT	C°50 ΔT	C°70 ΔT
6	0,2	10	1,5	60 A	80 A	100 A
10	0,2	10	2	80 A	110 A	130 A
10	0,2	15	2	90 A	120 A	150 A
16	0,2	15	2,5	110 A	150 A	190 A
25	0,2	20	3,2	150 A	210 A	260 A
35	0,2	20	3,4	180 A	250 A	310 A
50	0,2	28	3,6	240 A	330 A	410 A
75	0,2	28	5	300 A	410 A	500 A
100	0,2	32	6	360 A	500 A	610 A
120	0,2	35	7	410 A	560 A	690 A
150	0,2	38	8	470 A	650 A	800 A
200	0,2	32	10	530 A	730 A	890 A
250	0,2	40	12,5	640 A	880 A	1080 A
300	0,2	50	12	740 A	1020 A	1250 A

ROUND BRAIDS and TWISTED CABLES

	Wire Ø	Ø	In Amp - Ta 35°C current load referred to ΔT		
mm ²	mm.		C°30 ΔT	C°50 ΔT	C°70 ΔT
6	0,2	3,5	50 A	70 A	80 A
10	0,2	4,3	70 A	90 A	110 A
16	0,2	5,8	90 A	120 A	150 A
25	0,2	7	120 A	160 A	200 A
35	0,2	8,1	150 A	200 A	250 A
50	0,2	10,5	190 A	260 A	320 A
75	0,2	12,5	240 A	330 A	410 A
100	0,2	12	300 A	420 A	510 A
120	0,2	16	330 A	460 A	560 A
150	0,2	17	380 A	520 A	640 A

BRAIDED POWER CONDUCTORS

Cross-Sect.	W	t	Current load		
mm ²	dimensions in mm.		ΔT °30C	ΔT °50C	ΔT °70C
10	10	3,5	80 A	110 A	140 A
	12	3,2	80 A	110 A	140 A
16	15	3,5	110 A	160 A	190 A
	17	3,3	120 A	160 A	200 A
25	20	3,7	150 A	210 A	260 A
	22	3,5	160 A	220 A	270 A
	25	3,3	160 A	220 A	280 A
35	22	4,1	190 A	260 A	320 A
	25	3,8	190 A	270 A	330 A
50	25	4,6	230 A	320 A	400 A
	30	4,2	250 A	340 A	420 A
	35	3,8	260 A	350 A	430 A
75	30	5,2	300 A	420 A	510 A
	35	4,8	320 A	440 A	540 A
100	30	6	350 A	490 A	600 A
	35	5,6	370 A	510 A	620 A
	40	5,2	380 A	530 A	650 A
120	30	7	390 A	540 A	660 A
	35	6,5	410 A	560 A	690 A
	40	6	420 A	580 A	710 A
150	30	8	440 A	610 A	750 A
	35	7,5	460 A	630 A	780 A
	40	6,8	470 A	650 A	800 A
	45	6,2	490 A	670 A	830 A
200	40	8,3	550 A	760 A	940 A
	45	7,6	570 A	780 A	960 A
	50	7	590 A	810 A	990 A
	40	8,3	550 A	760 A	940 A
	50	7	590 A	780 A	990 A

BRAIDED POWER CONDUCTORS

Cross-Sect.	W	t	Current load		
mm ²	dimensions in mm.		ΔT °30C	ΔT °50C	ΔT °70C
250	40	10	630 A	860 A	1060 A
	45	9	640 A	890 A	1090 A
	50	8,3	660 A	910 A	1120 A
	40	10	630 A	860 A	1060 A
	50	8,3	660 A	910 A	1120 A
300	45	10,6	710 A	980 A	1200 A
	50	9,5	730 A	1000 A	1230 A
	60	8,5	770 A	1050 A	1300 A
	45	10,6	710 A	980 A	1200 A
	50	9,5	730 A	1000 A	1230 A
	60	8,5	770 A	1050 A	1300 A
	70	8,3	800 A	1110 A	1360 A
400	50	12	850 A	1180 A	1450 A
	40	15	820 A	1130 A	1390 A
	50	12	850 A	1180 A	1450 A
	60	10,5	890 A	1230 A	1510 A
	80	9,5	970 A	1340 A	1650 A
	100	8	1040 A	1430 A	1760 A
	120	7	1100 A	1520 A	1870 A
500	50	14,5	970 A	1330 A	1640 A
	60	12,5	1010 A	1390 A	1710 A
	80	11	1090 A	1510 A	1850 A
	90	10	1130 A	1560 A	1920 A
	100	9,2	1170 A	1610 A	1980 A
	120	8,5	1240 A	1720 A	2100 A
	140	8,5	1310 A	1800 A	2210 A
	150	7	1330 A	1840 A	2260 A
	160	9	1370 A	1890 A	2320 A
	200	9	1480 A	2040 A	2510 A

BRAIDED POWER CONDUCTORS

Cross-Sect.	W	t	Current load		
mm ²	dimensions in mm.		ΔT °30C	ΔT °50C	ΔT °70C
600	60	16	1120 A	1550 A	1900 A
	70	14	1160 A	1600 A	1970 A
	80	12,5	1210 A	1660 A	2040 A
	90	11,5	1250 A	1720 A	2110 A
	100	10,5	1290 A	1770 A	2180 A
	120	9,5	1360 A	1880 A	2300 A
	140	9,3	1430 A	1980 A	2430 A
	150	8	1460 A	2020 A	2480 A
	160	8	1500 A	2060 A	2530 A
	180	9	1560 A	2150 A	2650 A
800	200	10	1620 A	2240 A	2750 A
	80	15,5	1410 A	1940 A	2380 A
	100	13	1500 A	2060 A	2530 A
	120	11,5	1580 A	2180 A	2680 A
	140	11	1660 A	2290 A	2810 A
	150	10	1700 A	2340 A	2880 A
	160	11,2	1740 A	2400 A	2950 A
	180	10,5	1810 A	2490 A	3060 A
1000	200	11	1880 A	2590 A	3180 A
	80	19	1590 A	2200 A	2700 A
	100	15,5	1690 A	2320 A	2850 A
	120	14,5	1780 A	2450 A	3020 A
	140	13	1870 A	2570 A	3160 A
	150	13,3	1910 A	2630 A	3240 A
	160	12,8	1950 A	2690 A	3310 A
	180	12	2030 A	2800 A	3440 A
1200	200	12,5	2110 A	2900 A	3570 A
	100	18	1860 A	2560 A	3150 A
	120	16,5	1960 A	2700 A	3320 A
	140	14,6	2050 A	2830 A	3480 A
	150	15	2100 A	2900 A	3560 A
	160	14,3	2150 A	2960 A	3630 A
	180	13,5	2230 A	3070 A	3780 A
	200	13,5	2310 A	3180 A	3910 A

BRAIDED POWER CONDUCTORS

Cross-Sect.	W	t	Current load		
mm ²	dimensions in mm.		ΔT °30C	ΔT °50C	ΔT °70C
1500	100	22	2110 A	2900 A	3570 A
	120	20	2210 A	3050 A	3750 A
	140	16,2	2300 A	3180 A	3900 A
	150	17,5	2360 A	3260 A	4000 A
	160	16,6	2410 A	3320 A	4080 A
	180	15,5	2500 A	3440 A	4230 A
	200	15,5	2590 A	3570 A	4390 A
1800	120	23	2440 A	3370 A	4140 A
	140	19	2540 A	3500 A	4300 A
	150	20	2600 A	3590 A	4410 A
	160	19	2650 A	3660 A	4490 A
	180	17,5	2750 A	3790 A	4660 A
	200	17,5	2850 A	3930 A	4830 A
2000	120	25	2590 A	3570 A	4390 A
	140	21	2690 A	3710 A	4560 A
	150	22	2760 A	3800 A	4670 A
	160	21	2810 A	3870 A	4760 A
	180	19	2910 A	4010 A	4920 A
	200	18,5	3010 A	4150 A	5100 A
2200	120	27	2730 A	3760 A	4620 A
	140	24,5	2840 A	3920 A	4820 A
	150	23,5	2900 A	4000 A	4910 A
	160	22	2950 A	4070 A	5000 A
	180	21,5	3060 A	4220 A	5190 A
	200	20	3170 A	4360 A	5360 A
2400	120	29	2870 A	3950 A	4850 A
	140	26,5	2980 A	4110 A	5050 A
	150	25	3040 A	4190 A	5150 A
	160	24	3100 A	4260 A	5240 A
	180	23	3210 A	4420 A	5430 A
	200	20	3310 A	4550 A	5600 A

BRAIDED POWER CONDUCTORS

Cross-Sect.	W	t	Current load		
mm ²	dimensions in mm.		ΔT °30C	ΔT °50C	ΔT °70C
3000	120	33,5	3240 A	4460 A	5480 A
	140	32	3380 A	4650 A	5720 A
	150	30	3430 A	4730 A	5810 A
	160	28,5	3490 A	4810 A	5910 A
	180	27	3610 A	4980 A	6120 A
	200	24	3720 A	5130 A	6300 A
3600	120	40	3600 A	4960 A	6100 A
	140	37	3740 A	5150 A	6330 A
	150	35	3800 A	5230 A	6430 A
	160	33	3860 A	5320 A	6530 A
	180	31	3990 A	5490 A	6750 A
	200	27,5	4100 A	5650 A	6940 A
4500	120	50	4120 A	5670 A	6970 A
	150	42,5	4310 A	5940 A	7300 A
	160	41	4380 A	6030 A	7410 A
	180	36	4500 A	6190 A	7610 A
	200	33	4620 A	6370 A	7830 A
5000	100	68	4320 A	5950 A	7320 A
	120	55	4390 A	6040 A	7430 A
	140	50	4520 A	6230 A	7660 A
	160	48	4670 A	6440 A	7910 A
	180	45	4810 A	6630 A	8150 A
	200	36	4990 A	6750 A	8290 A

BMC SPACING INSULATORS

Code	mechanical characteristics				electrical characteristics		
	Trax	Comp	Flex	Torx	Vnn at 50Hz (kVolt)	Sci (kVolt)	Vn AC/DC (Volt)
IPM 20 M4-19	300	1500	150	3	5	15	600
IPM 20 M5-19	300	1500	150	6	5	15	600
IPM 20 M6-19	300	1500	150	10,3	5	15	600
IPM 20 M8-19	300	1500	150	10,3	5	15	600
IPM 25 M4-19	400	2300	220	3	8	25	600
IPM 25 M5-19	400	2300	220	6	8	25	600
IPM 25 M6-19	400	2300	220	10,3	8	25	600
IPM 25 M8-19	400	2300	220	10,3	8	25	600
IPM 30 M6-30	900	4900	450	10,3	10	30	750
IPM 30 M8-30	900	4900	450	25,5	10	30	750
IPM 30 M10-30	900	4900	450	50	10	30	750
IPM 30 M12-30	900	4900	450	87,2	10	30	750
IPM 35 M6-32	1100	7000	500	10,3	10	40	750
IPM 35 M8-32	1100	7000	500	25,5	10	40	750
IPM 35 M10-32	1100	7000	500	50	10	40	750
IPM 35 M12-32	1100	7000	500	87,2	10	40	750
IPM 36 M6-41	1400	8300	650	10,3	12	40	1000
IPM 36 M8-41	1400	8300	650	25,5	12	40	1000
IPM 36 M10-41	1400	8300	650	50	12	40	1000
IPM 36 M12-41	1400	8300	650	87,2	12	40	1000
IPM 40 M6-32	1100	7000	500	10,3	12	40	1000
IPM 40 M8-32	1100	7000	500	25,5	12	40	1000
IPM 40 M10-32	1100	7000	500	50	12	40	1000
IPM 40 M12-32	1100	7000	500	87,2	12	40	1000
IPM 40 M6-46	1300	8300	700	10,3	12	40	1000
IPM 40 M8-46	1300	8300	700	25,5	12	40	1000
IPM 40 M10-46	1300	8300	700	50	12	40	1000
IPM 40 M12-46	1300	8300	700	87,2	12	40	1000
IPM 45 M6-36	1400	8500	740	10,3	15	40	1000
IPM 45 M8-36	1400	8500	740	25,5	15	40	1000
IPM 45 M10-36	1400	8500	740	50	15	40	1000
IPM 45 M12-36	1400	8500	740	87,2	15	40	1000
IPM 45 M6-46	1500	9000	750	10,3	15	40	1000
IPM 45 M8-46	1500	9000	750	25,5	15	40	1000
IPM 45 M10-46	1500	9000	750	50	15	40	1000
IPM 45 M12-46	1500	9000	750	87,2	15	40	1000

Mechanical characteristics

Flex bending strength
Torx torsional strength
Comp compression strength
Trax tensile strength
 Values in daN → 1 daN = 1Kg

Electrical Characteristics

Vn nominal voltage
 Volt - AC - DC
Sci internal discharge voltage kVolt - AC
Tnn nominal voltage at 50Hz for 1 minute kV

BMC SPACING INSULATORS

Code	mechanical characteristics				electrical characteristics		
	Trax	Comp	Flex	Torx	Vnn at 50Hz (kVolt)	Sci (kVolt)	Vn AC/DC (Volt)
IPM 50 M6-36	1300	8000	650	10,3	20	50	1500
IPM 50 M8-36	1300	8000	650	25,5	20	50	1500
IPM 50 M10-36	1300	8000	650	50	20	50	1500
IPM 50 M12-36	1300	8000	650	87,2	20	50	1500
IPM 50 M6-50	1500	9500	750	10,3	20	50	1500
IPM 50 M8-50	1500	9500	750	25,5	20	50	1500
IPM 50 M10-50	1500	9500	750	50	20	50	1500
IPM 50 M12-50	1500	9500	750	87,2	20	50	1500
IPM 55 M6-55	1500	9500	780	10,3	20	50	1500
IPM 55 M8-55	1600	9800	780	25,5	20	50	1500
IPM 55 M10-55	1600	9800	780	50	20	50	1500
IPM 55 M12-55	1600	9800	780	87,2	20	50	1500
IPM 60 M6-55	2000	12500	800	10,3	20	50	1500
IPM 60 M8-55	2000	12500	800	25,5	20	50	1500
IPM 60 M10-55	2000	12500	800	50	20	50	1500
IPM 60 M12-55	2000	12500	800	87,2	20	50	1500
IPM 63 M6-41	1600	9000	700	10,3	20	50	1500
IPM 63 M 8-41	1600	9000	700	25,5	20	50	1500
IPM 63 M10-41	1600	9000	700	50	20	50	1500
IPM 63 M12-41	1600	9000	700	87,2	20	50	1500
IPM 65 M6-56	2000	13000	800	10,3	20	50	1500
IPM 65 M8-56	2000	13000	800	25,5	25	50	2000
IPM 65 M10-56	2000	13000	800	50	25	50	2000
IPM 65 M12-56	2000	13000	800	87,2	25	50	2000
IPM 70 M6-65	3000	15000	1200	10,3	25	50	2000
IPM 70 M8-65	3000	15000	1200	25,5	25	50	2000
IPM 70 M10-65	3000	15000	1200	50	25	50	2000
IPM 70 M12-65	3000	15000	1200	87,2	25	50	2000
IPM 70 M16-65	3000	15000	1200	210,8	25	50	2000
IPM 75 M8-50	1800	9500	730	25,5	25	50	2000
IPM 75 M10-50	1800	9500	730	50	25	50	2000
IPM 75 M12-50	1800	9500	730	87,2	25	50	2000
IPM 75 M16-50	1800	9500	730	210,8	25	50	2000
IPM 80 M8-65	3500	16000	1300	25,5	30	50	3600
IPM 80 M10-65	3500	16000	1300	50	30	50	3600
IPM 80 M12-65	3500	16000	1300	87,2	30	50	3600
IPM 80 M16-65	3500	16000	1300	210,8	30	50	3600
IPM 100 M8-65	4000	16500	1300	25,5	30	50	3600
IPM 100 M10-65	4000	16500	1300	50	30	50	3600
IPM 100 M12-65	4000	16500	1300	87,2	30	50	3600
IPM 100 M16-65	4000	16500	1300	210,8	30	50	3600

POLYAMIDE SPACING INSULATORS

Code	mechanical characteristics				electrical characteristics		
	Trax	Comp	Flex	Torx	Vnn at 50Hz (kVolt)	Sci (kVolt)	Vn AC/ DC (Volt)
IPA 12 M3-8	100	100	20	0,6	3	8	250
IPA 15 M4-14	300	500	60	3	3	8	250
IPA 15 M5-14	300	500	60	4	3	8	250
IPA 16 M4-14	300	500	60	4	3	8	250
IPA 16 M5-14	300	500	60	3	3	8	250
IPA 20 M4-17	350	600	80	3	5	15	400
IPA 20 M5-17	350	600	80	4	5	15	400
IPA 20 M6-17	350	600	80	8	5	15	400
IPA 25 M4-19	400	2300	220	3	8	25	600
IPA 25 M5-19	400	2300	220	4	8	25	600
IPA 25 M6-19	400	2300	220	8	8	25	600
IPA 25 M8-19	400	2300	220	8	8	25	600
IPA 30 M6-30	900	4900	450	10,3	10	30	750
IPA 30 M8-30	900	4900	450	25,5	10	30	750
IPA 30 M10-30	900	4900	450	50	10	30	750
IPA 30 M12-30	900	4900	450	87,2	10	30	750
IPA 35 M6-32	1100	7000	500	10,3	10	40	750
IPA 35 M8-32	1100	7000	500	25,5	10	40	750
IPA 35 M10-32	1100	7000	500	50	10	40	750
IPA 35 M12-32	1100	7000	500	87,2	10	40	750
IPA 35 M6-41	1400	8300	650	10,3	12	40	1000
IPA 35 M8-41	1400	8300	650	25,5	12	40	1000
IPA 35 M10-41	1400	8300	650	50	12	40	1000
IPA 35 M12-41	1400	8300	650	87,2	12	40	1000
IPA 40 M6-32	1100	7000	500	10,3	12	40	1000
IPA 40 M8-32	1100	7000	500	25,5	12	40	1000
IPA 40 M10-32	1100	7000	500	50	12	40	1000
IPA 40 M12-32	1100	7000	500	87,2	12	40	1000
IPA 40 M6-46	1300	8300	700	10,3	12	40	1000
IPA 40 M8-46	1300	8300	700	25,5	12	40	1000
IPA 40 M10-46	1300	8300	700	50	12	40	1000
IPA 40 M12-46	1300	8300	700	87,2	12	40	1000

Mechanical characteristics

Flex bending strength
Torx torsional strength
Comp compression strength
Trax tensile strength
 Values in daN → 1 daN = 1Kg

Electrical Characteristics

Vn nominal voltage
 Volt - AC – DC
Sci internal discharge voltage kVolt –AC
Tnn nominal voltage at 50Hz for 1 minute kV

POLYAMIDE SPACING INSULATORS

Code	mechanical characteristics				electrical characteristics		
	Trax	Comp	Flex	Torx	Vnn at 50Hz (kVolt)	Sci (kVolt)	Vn AC/DC (Volt)
IPA 45 M6-41	1400	8500	740	10,3	15	40	1000
IPA 45 M8-41	1400	8500	740	25,5	15	40	1000
IPA 45 M10-41	1400	8500	740	50	15	40	1000
IPA 45 M12-41	1400	8500	740	87,2	15	40	1000
IPA 45 M6-46	1500	9000	780	10,3	15	40	1000
IPA 45 M8-46	1500	9000	780	25,5	15	40	1000
IPA 45 M10-46	1500	9000	780	50	15	40	1000
IPA 45 M12-46	1500	9000	780	87,2	15	40	1000
IPA 50 M6-36	1300	8000	650	10,3	20	50	1500
IPA 50 M8-36	1300	8000	650	25,5	20	50	1500
IPA 50 M10-36	1300	8000	650	50	20	50	1500
IPA 50 M12-36	1300	8000	650	87,2	20	50	1500
IPA 50 M6-50	1500	9000	750	10,3	20	50	1500
IPA 50 M8-50	1500	9000	750	25,5	20	50	1500
IPA 50 M10-50	1500	9000	750	50	20	50	1500
IPA 50 M12-50	1500	9000	750	87,2	20	50	1500
IPA 55 M6-55	1600	9800	780	10,3	20	50	1500
IPA 55 M8-55	1600	9800	780	25,5	20	50	1500
IPA 55 M10-55	1600	9800	780	50	20	50	1500
IPA 55 M12-55	1600	9800	780	87,2	20	50	1500
IPA 60 M8-54	2000	12500	800	25,5	20	50	1500
IPA 60 M10-54	2000	12500	800	50	20	50	1500
IPA 60 M12-54	2000	12500	800	87,2	20	50	1500
IPA 63 M8-41	1600	9000	700	25,5	20	50	1500
IPA 63 M10-41	1600	9000	700	50	20	50	1500
IPA 63 M12-41	1600	9000	700	87,2	20	50	1500
IPA 75 M8-50	1600	9000	700	25,5	25	50	2000
IPA 75 M10-50	1800	9500	730	50	25	50	2000
IPA 75 M12-50	1800	9500	730	87,2	25	50	2000
IPA 75 M16-50	1800	9500	730	210,8	25	50	2000
IPA 100 M8-65	4000	16500	1300	25,5	30	50	3600
IPA 100 M10-65	4000	16500	1300	50	30	50	3600
IPA 100 M12-65	4000	16500	1300	87,2	30	50	3600
IPA 100 M16-65	4000	16500	1300	210,8	30	50	3600

Mechanical characteristics

Flex bending strength

Torx torsional strength

Comp compression strength

Trax tensile strength

Values in daN -> 1 daN = 1Kg

Electrical Characteristics

Vn nominal voltage

Volt - AC - DC

Sci internal discharge voltage kVolt -AC

Tnn nominal voltage at 50Hz for 1 minute kV

BMC SPACING COLUMNS

Code	mechanical characteristics				electrical characteristics		
	Trax	Comp	Flex	Torx	Vnn at 50Hz (kVolt)	Sci (kVolt)	Vn AC/ DC (Volt)
CPM 16 M4-20	250	2000	170	3	3	10	400
CPM 16 M5-20	250	2000	170	3,5	3	10	400
CPM 16 M6-20	250	2000	170	4	3	10	400
CPM 16 M8-20	250	2000	170	4	3	10	400
CPM 20 M4-20	300	2200	200	3	3,5	12	600
CPM 20 M5-20	300	2200	200	3,5	3,5	12	600
CPM 20 M6-20	300	2200	200	4	3,5	12	600
CPM 20 M8-20	300	2200	200	4	3,5	12	600
CPM 25 M5-20	350	2500	200	6	5	15	600
CPM 25 M6-20	350	2500	200	10,3	5	15	600
CPM 25 M8-20	350	2500	200	25,5	5	15	600
CPM 30 M5-20	400	2500	200	6	10	20	600
CPM 30 M6-20	400	2500	200	10,3	10	20	600
CPM 30 M8-20	400	2500	200	25,5	10	20	600
CPM 35 M5-20	400	2500	200	6	10	20	600
CPM 35 M6-20	400	2500	200	10,3	10	20	600
CPM 35 M8-20	400	2500	200	25,5	10	20	600
CPM 40 M5-20	400	2500	200	6	10	20	600
CPM 40 M6-20	400	2500	200	10,3	10	20	600
CPM 40 M8-20	400	2500	200	25,5	10	20	600
CPM 45 M5-20	400	2500	200	6	10	20	600
CPM 45 M6-20	400	2500	200	10,3	10	20	600
CPM 45 M8-20	400	2500	200	25,5	10	20	600
CPM 50 M5-20	400	2500	200	6	10	30	750
CPM 50 M6-20	400	2500	200	10,3	10	30	750
CPM 50 M8-20	400	2500	200	25,5	10	30	750
CPM 55 M5-20	400	2500	150	6	10	30	750
CPM 55 M6-20	400	2500	150	10,3	10	30	750
CPM 55 M8-20	400	2500	150	25,5	10	30	750
CPM 60 M5-20	400	2500	150	6	10	30	750
CPM 60 M6-20	400	2500	150	10,3	10	30	750
CPM 60 M8-20	400	2500	150	25,5	10	30	750
CPM 65 M5-20	400	2500	150	6	10	30	750
CPM 65 M6-20	400	2500	150	10,3	10	30	750
CPM 65 M8-20	400	2500	150	25,5	10	30	750
CPM 70 M5-20	400	2500	150	6	10	30	750
CPM 70 M6-20	400	2500	150	10,3	10	30	750
CPM 70 M8-20	400	2500	150	25,5	10	30	750

Mechanical characteristics

Flex bending strength

Torx torsional strength

Comp compression strength

Trax tensile strength

Values in daN -> 1 daN = 1Kg

Electrical Characteristics

Vn nominal voltage

Volt - AC - DC

Sci internal discharge voltage kVolt -AC

Tnn nominal voltage at 50Hz for 1 minute kV

POLYAMIDE SPACING COLUMNS

Code	mechanical characteristics				electrical characteristics		
	Trax	Comp	Flex	Torx	Vnn at 50Hz (kVolt)	Sci	Vn AC/DC (Volt)
CPA 30 M6-30	900	4500	450	10,3	8	25	750
CPA 30 M8-30	900	4500	450	25,5	8	25	750
CPA 30 M10-30	900	4500	450	50	8	25	750
CPA 30 M12-30	900	4500	450	87,2	8	25	750
CPA 35 M6-30	900	4500	450	10,3	8	25	750
CPA 35 M8-30	900	4500	450	25,5	8	25	750
CPA 35 M10-30	900	4500	450	50	8	25	750
CPA 35 M12-30	900	4500	450	87,2	8	25	750
CPA 40 M6-30	900	4500	450	10,3	10	30	1000
CPA 40 M8-30	900	4500	450	25,5	10	30	1000
CPA 40 M10-30	900	4500	450	50	10	30	1000
CPA 40 M12-30	900	4500	450	87,2	10	30	1000
CPA 45 M6-30	900	4500	300	10,3	10	30	1000
CPA 45 M8-30	900	4500	300	25,5	10	30	1000
CPA 45 M10-30	900	4500	300	50	10	30	1000
CPA 45 M12-30	900	4500	300	87,2	10	30	1000
CPA 50 M6-30	900	4500	200	10,3	15	50	1500
CPA 50 M8-30	900	4500	200	25,5	15	50	1500
CPA 50 M10-30	900	4500	200	50	15	50	1500
CPA 50 M12-30	900	4500	200	87,2	15	50	1500
CPA 55 M6-30	900	4500	200	10,3	15	50	1500
CPA 55 M8-30	900	4500	200	25,5	15	50	1500
CPA 55 M10-30	900	4500	200	50	15	50	1500
CPA 55 M12-30	900	4500	200	87,2	15	50	1500
CPA 60 M6-30	900	4500	150	10,3	15	50	1500
CPA 60 M8-30	900	4500	150	25,5	15	50	1500
CPA 60 M10-30	900	4500	150	50	15	50	1500
CPA 60 M12-30	900	4500	150	87,2	15	50	1500
CPA 65 M6-30	900	4500	150	10,3	15	50	1500
CPA 65 M8-30	900	4500	150	25,5	15	50	1500
CPA 65 M10-30	900	4500	150	50	15	50	1500
CPA 65 M12-30	900	4500	150	87,2	15	50	1500
CPA 70 M6-30	900	4500	150	10,3	15	50	1500
CPA 70 M8-30	900	4500	150	25,5	15	50	1500
CPA 70 M10-30	900	4500	150	50	15	50	1500
CPA 70 M12-30	900	4500	150	87,2	15	50	1500

Mechanical characteristics

Flex bending strength

Torx torsional strength

Comp compression strength

Trax tensile strength

Values in daN → 1 daN = 1Kg

Electrical Characteristics

Vn nominal voltage

Volt - AC - DC

Sci internal discharge voltage kVolt -AC

Tnn nominal voltage at 50Hz for 1 minute kV

POLYAMIDE SPACING COLUMNS

Code	mechanical characteristics				electrical characteristics		
	Trax	Comp	Flex	Torx	Vnn at 50Hz (kVolt)	Sci (kVolt)	Vn AC/DC (Volt)
CPA 30 M6-41	1200	6500	700	10,3	8	25	750
CPA 30 M8-41	1200	6500	700	25,5	8	25	750
CPA 30 M10-41	1200	6500	700	50	8	25	750
CPA 30 M12-41	1200	6500	700	87,2	8	25	750
CPA 35 M6-41	1200	6500	700	10,3	8	25	750
CPA 35 M8-41	1200	6500	700	25,5	8	25	750
CPA 35 M10-41	1200	6500	700	50	8	25	750
CPA 35 M12-41	1200	6500	700	87,2	8	25	750
CPA 40 M6-41	1200	6500	600	10,3	10	30	1000
CPA 40 M8-41	1200	6500	600	25,5	10	30	1000
CPA 40 M10-41	1200	6500	600	50	10	30	1000
CPA 40 M12-41	1200	6500	600	87,2	10	30	1000
CPA 45 M6-41	1200	6500	600	10,3	10	30	1000
CPA 45 M8-41	1200	6500	600	25,5	10	30	1000
CPA 45 M10-41	1200	6500	600	50	10	30	1000
CPA 45 M12-41	1200	6500	600	87,2	10	30	1000
CPA 50 M6-41	1200	6500	500	10,3	15	40	1500
CPA 50 M8-41	1200	6500	500	25,5	15	40	1500
CPA 50 M10-41	1200	6500	500	50	15	40	1500
CPA 50 M12-41	1200	6500	500	87,2	15	40	1500
CPA 55 M6-41	1200	6500	500	10,3	15	40	1500
CPA 55 M8-41	1200	6500	500	25,5	15	40	1500
CPA 55 M10-41	1200	6500	500	50	15	40	1500
CPA 55 M12-41	1200	6500	500	87,2	15	40	1500
CPA 60 M6-41	1200	6500	500	10,3	15	40	1500
CPA 60 M8-41	1200	6500	500	25,5	15	40	1500
CPA 60 M10-41	1200	6500	500	50	15	40	1500
CPA 60 M12-41	1200	6500	500	87,2	15	40	1500
CPA 65 M6-41	1200	6500	300	10,3	15	40	1500
CPA 65 M8-41	1200	6500	300	25,5	15	40	1500
CPA 65 M10-41	1200	6500	300	50	15	40	1500
CPA 65 M12-41	1200	6500	300	87,2	15	40	1500
CPA 70 M6-41	1200	6500	300	10,3	15	40	1500
CPA 70 M8-41	1200	6500	300	25,5	15	40	1500
CPA 70 M10-41	1200	6500	300	50	15	40	1500
CPA 70 M12-41	1200	6500	300	87,2	15	40	1500
CPA 70 M16-41	1200	6500	300	210,8	15	40	1500

Mechanical characteristics

Flex bending strength
Torx torsional strength
Comp compression strength
Trax tensile strength
 Values in daN → 1 daN = 1Kg

Electrical Characteristics

Vn nominal voltage
 Volt - AC - DC
Sci internal discharge voltage kVolt -AC
Tnn nominal voltage at 50Hz for 1 minute kV



“Quality is not an act.
It is a habit.”

Aristotle



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