

CONDUCTORS



Alcu[®]
SYSTEM

SUPER FLEX INSULATED COPPER BRAIDS FOR CONNECTIONS UP TO 630A



PVC sheathed flat copper braids equipped with tin-plated copper terminals suitable for connections ranging from 160A up to 630A. Available in different lengths, "Super Flex" conductors are compatible with all molded case circuit breakers of the major brands available on the market.

CONDUCTORS



ADVANTAGES

- Wide variety of bending and twisting possibilities
- Quick and easy to install
- High electrical insulation properties
- Maximum short circuit withstanding

TECHNICAL SPECIFICATIONS

- Operating temperature -70°C +135°C
- Black PVC sheath
- Nominal voltage 1000 VAC/1500 VDC
- Dielectric Strength: 22 kV/mm
- Thermal shock: UL 224
- Cold bend test: UL 224
- Tensile strength 10,4 MPa Min
- Elongation at break 200% Min

INSULATING SHEATH

- Flammability Rating: UL 94-V0
- Maximum operating temperature: 105° C
- Class: F-V0
- Colour: Black
- Thickness: 1,8 ÷ 2 mm

COPPER CONDUCTOR

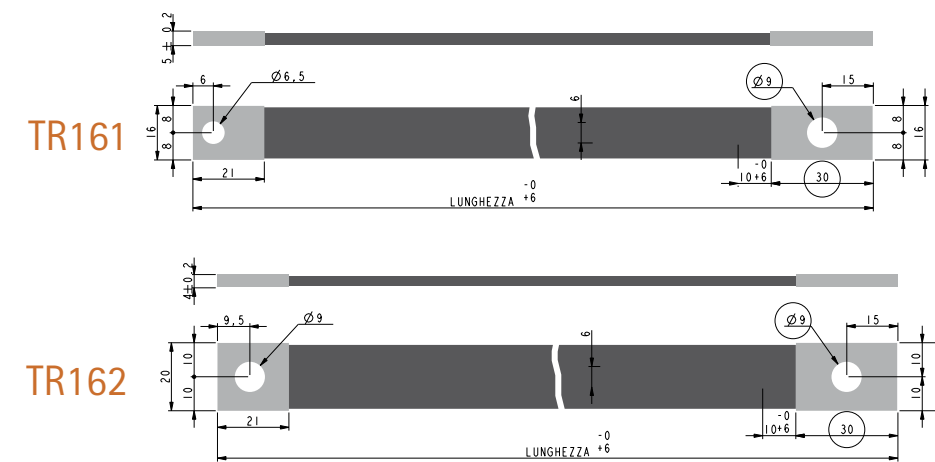
- Maximum operating voltage: 1000 V CA – 1500 V DC
- Intensity: from 160A up to 630A
- Electrolytic copper Cu-EPT 99,90%
- Wire diameter 0,20 mm
- Tin-plated copper terminals

"SUPER FLEX" BRAIDED CONDUCTOR

- Flexible copper conductor suitable for applications from 125A up to 160A

SUPER FLEX INSULATED BRAIDED CONDUCTORS FROM 125A UP TO 160A

Flat insulated copper braids suitable for applications from 125A up to 160A



PRODUCT CODE	PACKAGE CONTENT	WEIGHT (KG)	Ø WIRE	LENGTH (MM)	WIDTH (MM)	THICKNESS (MM)
TR161/430	1	0,2	0,20	430	16	5
TR161/530	1	0,25	0,20	530	16	5
TR161/580	1	0,27	0,20	580	16	5
TR161/630	1	0,3	0,20	630	16	5
TR161/680	1	0,32	0,20	680	16	5
TR161/750	1	0,36	0,20	750	16	5
TR162/250	1	0,12	0,20	250	20	4
TR162/300	1	0,14	0,20	300	20	4
TR162/350	1	0,17	0,20	350	20	4
TR162/400	1	0,19	0,20	400	20	4
TR162/450	1	0,21	0,20	450	20	4
TR162/500	1	0,24	0,20	500	20	4
TR162/550	1	0,26	0,20	550	20	4
TR162/600	1	0,29	0,20	600	20	4
TR162/650	1	0,31	0,20	650	20	4
TR162/700	1	0,33	0,20	700	20	4
TR162/750	1	0,36	0,20	750	20	4
TR162/800	1	0,36	0,20	800	20	4
TR162/850	1	0,40	0,20	850	20	4
TR162/900	1	0,42	0,20	900	20	4

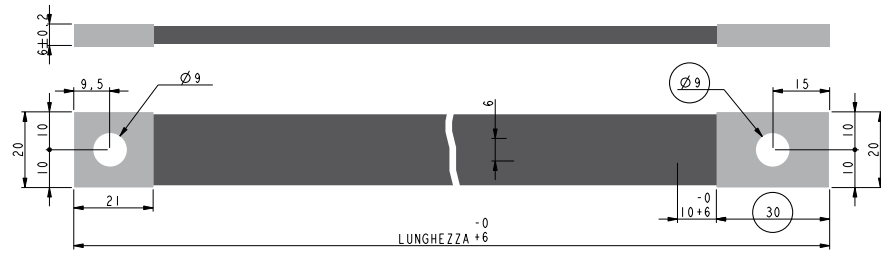
CIRCUIT BREAKER COMPATIBILITY

Code	ABB circuit breakers	BITICINO circuit breakers	SCHNEIDER circuit breakers	SIEMENS circuit breakers	AEG circuit breakers	In (A)
TR161/430	xT1 - T1	M1	-	-	-	160
TR161/530	xT1 - T1	M1	-	-	-	160
TR161/580	xT1 - T1	M1	-	-	-	160
TR161/630	xT1 - T1	M1	-	-	-	160
TR161/680	xT1 - T1	M1	-	-	-	160
TR161/750	xT1 - T1	M1	-	-	-	160
TR162/250	xT2-T2-OT160	-	NSx160-INS160	VL160-VL160x-3VT1-3KA71-1	MC169-MM169	160
TR162/300	xT2-T2-OT160	-	NSx160-INS160	VL160-VL160x-3VT1-3KA71-1	MC169-MM169	160
TR162/350	xT2-T2-OT160	-	NSx160-INS160	VL160-VL160x-3VT1-3KA71-1	MC169-MM169	160
TR162/400	xT2-T2-OT160	-	NSx160-INS160	VL160-VL160x-3VT1-3KA71-1	MC169-MM169	160
TR162/450	xT2-T2-OT160	-	NSx160-INS160	VL160-VL160x-3VT1-3KA71-1	MC169-MM169	160
TR162/500	xT2-T2-OT160	-	NSx160-INS160	VL160-VL160x-3VT1-3KA71-1	MC169-MM169	160
TR162/550	xT2-T2-OT160	-	NSx160-INS160	VL160-VL160x-3VT1-3KA71-1	MC169-MM169	160
TR162/600	xT2-T2-OT160	-	NSx160-INS160	VL160-VL160x-3VT1-3KA71-1	MC169-MM169	160
TR162/650	xT2-T2-OT160	-	NSx160-INS160	VL160-VL160x-3VT1-3KA71-1	MC169-MM169	160
TR162/700	xT2-T2-OT160	-	NSx160-INS160	VL160-VL160x-3VT1-3KA71-1	MC169-MM169	160
TR162/750	xT2-T2-OT160	-	NSx160-INS160	VL160-VL160x-3VT1-3KA71-1	MC169-MM169	160
TR162/800	xT2-T2-OT160	-	NSx160-INS160	VL160-VL160x-3VT1-3KA71-1	MC169-MM169	160
TR162/850	xT2-T2-OT160	-	NSx160-INS160	VL160-VL160x-3VT1-3KA71-1	MC169-MM169	160
TR162/900	xT2-T2-OT160	-	NSx160-INS160	VL160-VL160x-3VT1-3KA71-1	MC169-MM169	160

CONDUCTORS

"SUPER FLEX" INSULATED BRAIDED CONDUCTORS (250A)

Flat insulated copper braids (250A)



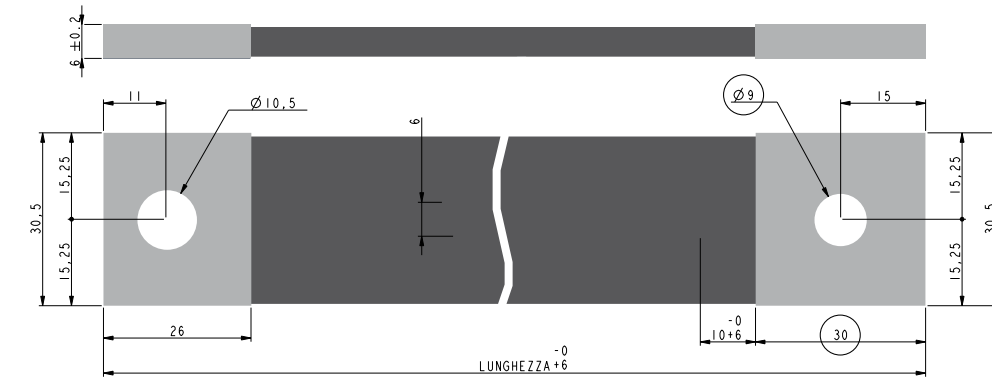
PRODUCT CODE	PACKAGE CONTENT	WEIGHT (KG)	Ø WIRE	LENGTH (MM)	WIDTH (MM)	THICKNESS (MM)
TR25/250	1	0,18	0,20	250	20	6
TR25/300	1	0,213	0,20	300	20	6
TR25/350	1	0,29	0,20	350	20	6
TR25/400	1	0,31	0,20	400	20	6
TR25/450	1	0,32	0,20	450	20	6
TR25/500	1	0,35	0,20	500	20	6
TR25/550	1	0,39	0,20	550	20	6
TR25/600	1	0,432	0,20	600	20	6
TR25/650	1	0,46	0,20	650	20	6
TR25/700	1	0,50	0,20	700	20	6
TR25/750	1	0,53	0,20	750	20	6
TR25/800	1	0,57	0,20	800	20	6
TR25/850	1	0,60	0,20	850	20	6
TR25/900	1	0,64	0,20	900	20	6

CIRCUIT BREAKER COMPATIBILITY

Code	ABB circuit breakers	SCHNEIDER circuit breakers	SIEMENS circuit breakers	AEG circuit breakers	In (A)
TR25/250	xT3-T3-T4-xT4-OT250	NSx250-INS250	VL250-3VT2-3KA71-2	MC259-HLN3	250
TR25/300	xT3-T3-T4-xT4-OT250	NSx250-INS250	VL250-3VT2-3KA71-2	MC259-HLN3	250
TR25/350	xT3-T3-T4-xT4-OT250	NSx250-INS250	VL250-3VT2-3KA71-2	MC259-HLN3	250
TR25/400	xT3-T3-T4-xT4-OT250	NSx250-INS250	VL250-3VT2-3KA71-2	MC259-HLN3	250
TR25/450	xT3-T3-T4-xT4-OT250	NSx250-INS250	VL250-3VT2-3KA71-2	MC259-HLN3	250
TR25/500	xT3-T3-T4-xT4-OT250	NSx250-INS250	VL250-3VT2-3KA71-2	MC259-HLN3	250
TR25/550	xT3-T3-T4-xT4-OT250	NSx250-INS250	VL250-3VT2-3KA71-2	MC259-HLN3	250
TR25/600	xT3-T3-T4-xT4-OT250	NSx250-INS250	VL250-3VT2-3KA71-2	MC259-HLN3	250
TR25/650	xT3-T3-T4-xT4-OT250	NSx250-INS250	VL250-3VT2-3KA71-2	MC259-HLN3	250
TR25/700	xT3-T3-T4-xT4-OT250	NSx250-INS250	VL250-3VT2-3KA71-2	MC259-HLN3	250
TR25/750	xT3-T3-T4-xT4-OT250	NSx250-INS250	VL250-3VT2-3KA71-2	MC259-HLN3	250
TR25/800	xT3-T3-T4-xT4-OT250	NSx250-INS250	VL250-3VT2-3KA71-2	MC259-HLN3	250
TR25/850	xT3-T3-T4-xT4-OT250	NSx250-INS250	VL250-3VT2-3KA71-2	MC259-HLN3	250
TR25/900	xT3-T3-T4-xT4-OT250	NSx250-INS250	VL250-3VT2-3KA71-2	MC259-HLN3	250

"SUPER FLEX" INSULATED BRAIDED CONDUCTORS (400A)

Flat insulated copper braids (400A)



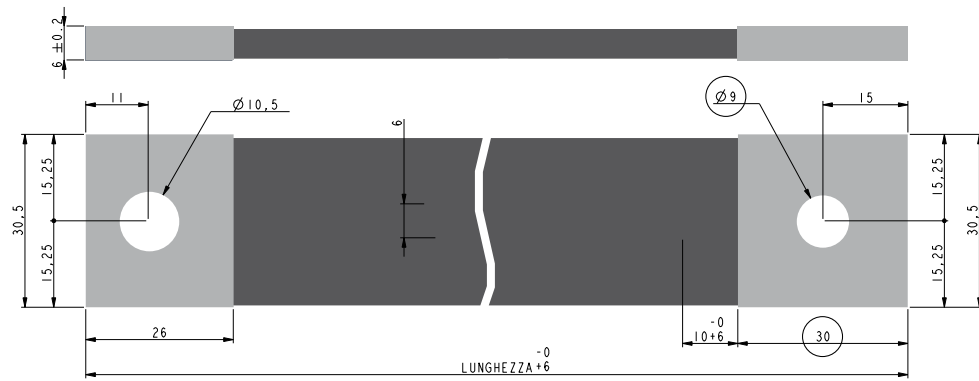
PRODUCT CODE	PACKAGE CONTENT	WEIGHT (KG)	Ø WIRE	LENGTH (MM)	WIDTH (MM)	THICKNESS (MM)
TR40/250	1	0,28	0,20	250	30,5	6
TR40/300	1	0,34	0,20	300	30,5	6
TR40/350	1	0,45	0,20	350	30,5	6
TR40/400	1	0,47	0,20	400	30,5	6
TR40/450	1	0,51	0,20	450	30,5	6
TR40/500	1	0,57	0,20	500	30,5	6
TR40/550	1	0,63	0,20	550	30,5	6
TR40/600	1	0,68	0,20	600	30,5	6
TR40/650	1	0,74	0,20	650	30,5	6
TR40/700	1	0,80	0,20	700	30,5	6
TR40/750	1	0,85	0,20	750	30,5	6
TR40/800	1	0,91	0,20	800	30,5	6
TR40/850	1	0,97	0,20	850	30,5	6
TR40/900	1	1,03	0,20	900	30,5	6

CIRCUIT BREAKER COMPATIBILITY

Code	ABB circuit breakers	SCHNEIDER circuit breakers	SIEMENS circuit breakers	AEG circuit breakers	In (A)
TR40/250	T5400-OT400	NSx400-INS400	VL400-3VT3 (400)-3KA71-3	MC409-HNL3-HNL4	400
TR40/300	T5400-OT400	NSx400-INS400	VL400-3VT3 (400)-3KA71-3	MC409-HNL3-HNL4	400
TR40/350	T5400-OT400	NSx400-INS400	VL400-3VT3 (400)-3KA71-3	MC409-HNL3-HNL4	400
TR40/400	T5400-OT400	NSx400-INS400	VL400-3VT3 (400)-3KA71-3	MC409-HNL3-HNL4	400
TR40/450	T5400-OT400	NSx400-INS400	VL400-3VT3 (400)-3KA71-3	MC409-HNL3-HNL4	400
TR40/500	T5400-OT400	NSx400-INS400	VL400-3VT3 (400)-3KA71-3	MC409-HNL3-HNL4	400
TR40/550	T5400-OT400	NSx400-INS400	VL400-3VT3 (400)-3KA71-3	MC409-HNL3-HNL4	400
TR40/600	T5400-OT400	NSx400-INS400	VL400-3VT3 (400)-3KA71-3	MC409-HNL3-HNL4	400
TR40/650	T5400-OT400	NSx400-INS400	VL400-3VT3 (400)-3KA71-3	MC409-HNL3-HNL4	400
TR40/700	T5400-OT400	NSx400-INS400	VL400-3VT3 (400)-3KA71-3	MC409-HNL3-HNL4	400
TR40/750	T5400-OT400	NSx400-INS400	VL400-3VT3 (400)-3KA71-3	MC409-HNL3-HNL4	400
TR40/800	T5400-OT400	NSx400-INS400	VL400-3VT3 (400)-3KA71-3	MC409-HNL3-HNL4	400
TR40/850	T5400-OT400	NSx400-INS400	VL400-3VT3 (400)-3KA71-3	MC409-HNL3-HNL4	400
TR40/900	T5400-OT400	NSx400-INS400	VL400-3VT3 (400)-3KA71-3	MC409-HNL3-HNL4	400

"SUPER FLEX" INSULATED BRAIDED CONDUCTORS (630A)

Flat insulated copper braids (630A)



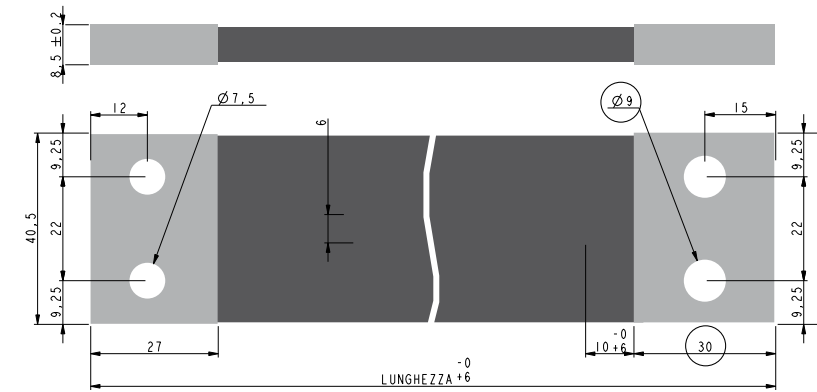
PRODUCT CODE	PACKAGE CONTENT	WEIGHT (KG)	Ø WIRE	LENGTH (MM)	WIDTH (MM)	THICKNESS (MM)
TR633/300	1	0,73	0,20	300	30,5	11
TR633/350	1	0,85	0,20	350	30,5	11
TR633/400	1	1	0,20	400	30,5	11
TR633/450	1	1,1	0,20	450	30,5	11
TR633/500	1	1,22	0,20	500	30,5	11
TR633/550	1	1,34	0,20	550	30,5	11
TR633/600	1	1,46	0,20	600	30,5	11
TR633/650	1	1,6	0,20	650	30,5	11
TR633/700	1	1,7	0,20	700	30,5	11
TR633/750	1	1,83	0,20	750	30,5	11
TR633/800	1	1,95	0,20	800	30,5	11
TR633/850	1	2,07	0,20	850	30,5	11
TR633/900	1	2,20	0,20	900	30,5	11

CIRCUIT BREAKER COMPATIBILITY

Code	ABB circuit breakers	SCHNEIDER circuit breakers	SIEMENS circuit breakers	AEG circuit breakers	In (A)
TR633/300	T5630-OT630	NSx630-INS630	3VT3 (630) -3KA71-4	MC639-HNL4	630
TR633/350	T5630-OT630	NSx630-INS630	3VT3 (630) -3KA71-4	MC639-HNL4	630
TR633/400	T5630-OT630	NSx630-INS630	3VT3 (630) -3KA71-4	MC639-HNL4	630
TR633/450	T5630-OT630	NSx630-INS630	3VT3 (630) -3KA71-4	MC639-HNL4	630
TR633/500	T5630-OT630	NSx630-INS630	3VT3 (630) -3KA71-4	MC639-HNL4	630
TR633/550	T5630-OT630	NSx630-INS630	3VT3 (630) -3KA71-4	MC639-HNL4	630
TR633/600	T5630-OT630	NSx630-INS630	3VT3 (630) -3KA71-4	MC639-HNL4	630
TR633/650	T5630-OT630	NSx630-INS630	3VT3 (630) -3KA71-4	MC639-HNL4	630
TR633/700	T5630-OT630	NSx630-INS630	3VT3 (630) -3KA71-4	MC639-HNL4	630
TR633/750	T5630-OT630	NSx630-INS630	3VT3 (630) -3KA71-4	MC639-HNL4	630
TR633/800	T5630-OT630	NSx630-INS630	3VT3 (630) -3KA71-4	MC639-HNL4	630
TR633/850	T5630-OT630	NSx630-INS630	3VT3 (630) -3KA71-4	MC639-HNL4	630
TR633/900	T5630-OT630	NSx630-INS630	3VT3 (630) -3KA71-4	MC639-HNL4	630

"SUPER FLEX" INSULATED BRAIDED CONDUCTORS (630A)

Flat insulated copper braids equipped with double fastening hole (630A)



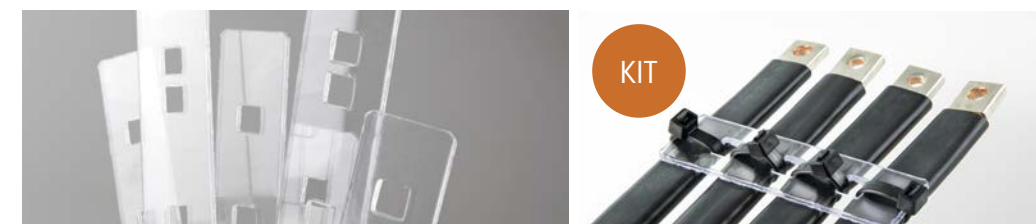
PRODUCT CODE	PACKAGE CONTENT	WEIGHT (KG)	Ø WIRE	LENGTH (MM)	WIDTH (MM)	THICKNESS (MM)
TR634/430	1	1,97	0,20	430	40,5	8,5
TR634/480	1	1,08	0,20	480	40,5	8,5
TR634/530	1	1,20	0,20	530	40,5	8,5
TR634/580	1	1,31	0,20	580	40,5	8,5
TR634/630	1	1,42	0,20	630	40,5	8,5
TR634/680	1	1,42	0,20	680	40,5	8,5

CIRCUIT BREAKER COMPATIBILITY

Code	ABB circuit breakers	SIEMENS circuit breakers	In (A)
TR634/430	T6	VL630	630
TR634/480	T6	VL630	630
TR634/530	T6	VL630	630
TR634/580	T6	VL630	630
TR634/630	T6	VL630	630
TR634/680	T6	VL630	630

POLYCARBONATE STIFFENER FOR "SUPER FLEX" BRAIDED CONDUCTORS

Polycarbonate stiffeners equipped with ties



PRODUCT CODE	PACKAGE CONTENT	WEIGHT (KG)	LENGTH (MM)	WIDTH (MM)	CIRCUIT BREAKER POLE CENTER DISTANCE (MM)	IN (A)
IR30/C	10	0,52	108	20	30	160
IR35/C	10	0,55	128	20	35	250
IR451/C	10	0,59	168	20	45	250
IR452/C	10	0,60	168	30,5	45	400/630
IR701/C	10	0,74	243	30,5	70	400/630
IR702/C	10	0,75	251	40,5	70	630

INSULATED FLEXIBLE COPPER BARS



Flexible bars consisting of overlapping layers of electrolytic copper, protected by a high quality PVC insulation. The PVC sheath ensures the electrical insulation of the conductor whereas the flexibility of the copper laminates allows copper bars to be easily bent and folded improving assembly versatility.

CONDUCTORS



ADVANTAGES

COMPARED TO RIGID BARS

- Wide variety of bending and twisting possibilities
- Quick and easy to install
- High electrical insulation properties
- Maximum short circuit withstanding

TECHNICAL SPECIFICATIONS

- Rame elettrolitico Cu-EPT 99,90%
- Spessore lamina 0,5 ÷ 1 mm

COPPER LAMINATES

- Electrolytic copper Cu-EPT 99,90%
- Laminates thickness 0,5 ÷ mm
- Insulating Sheath

INSULATING SHEATH

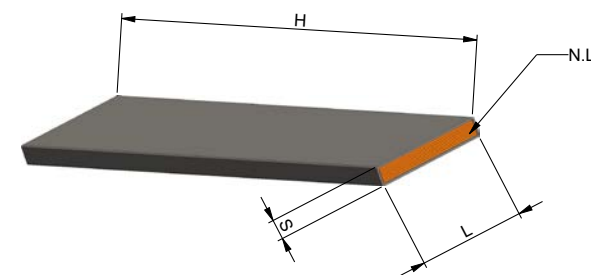
- Flammability Rating: UL 94-V0
- Colour: Black
- Thickness: 2 mm

FLEXIBLE BARS

- Dielectric Strength: 20 kV/mm
- Operating temperature -40°C ÷ 105°C
- Nominal voltage 1000 VAC/1500 VDC
- Dielectric strength (39 Kv/mm)

INSULATED FLEXIBLE COPPER BARS

Insulated, flexible copper conductor (length: 2 metres)



PRODUCT CODE	PACKAGE CONTENT	WEIGHT (KG)	CROSS SECTION (MM ²)	L WIDTH (MM)	NUMBER OF COPPER LAMINATES	S THICKNESS (MM)	H HEIGHT (MM)	ICC (A)
CU/20X2X1	1	0,85	40	20	2	1	2000	3,479
CU/20X3X1	1	1,2	60	20	3	1	2000	5,218
CU/24X4X1	1	1,9	96	24	4	1	2000	8,349
CU/32X4X1	1	2,5	128	32	4	1	2000	11,132
CU/32X5X1	1	3,1	160	32	5	1	2000	13,915
CU/32X6X1	1	3,65	192	32	6	1	2000	16,698
CU/40X5X1	1	3,8	200	40	5	1	2000	17,394
CU/50X5X1	1	4,8	250	50	5	1	2000	21,742
CU/50X6X1	1	5,7	300	50	6	1	2000	22,090
CU/50X8X1	1	7,5	400	50	8	1	2000	28,120
CU/50X10X1	1	9,3	500	50	10	1	2000	35,150

TEMPERATURE RISE T (°C)

Rated current (A)

Code	65°	50°	40°	30°	20°
CU/20X2X1	320	280	230	195	150
CU/20X3X1	400	345	285	240	185
CU/24X4X1	545	470	380	320	250
CU/32X4X1	685	590	480	400	310
CU/32X5X1	775	670	540	450	350
CU/32X6X1	855	735	600	500	385
CU/40X5X1	925	805	640	540	420
CU/50X5X1	1110	965	770	645	500
CU/50X6X1	1220	1060	840	705	545
CU/50X8X1	1410	1220	970	815	620
CU/50X10X1	1585	1370	1080	905	705

CONDUCTORS