

BARRE FLESSIBILI ISOLATE INSULATED FLEXIBLE BARS



- Lamina elementare Cu-ETP UNI EN 1652
Single strip Cu-ETP UNI EN 1652
- Isolamento in PVC nero autoestinguente UL 94 V0
Self extinguishing UL 94 V0 black PVC insulation
- Tensione di esercizio 1000 V AC – 1500 V DC
Operating voltage 1000 V AC – 1500 V DC
- Temperatura di esercizio -40/+105 °C
Operating temperature -40/+105 °C
- Rigidità dielettrica 20 kV/mm
Dielectric strenght 20 kV/mm
- Spessore isolamento: 1,6 - 2 mm
Insulation thickness: 1,6 - 2 mm
- Esente da alogeni / in Silicone su richiesta
Halogen free / Silicon Insulation upon request
- Lunghezza barra standard: 2 metri (speciali su richiesta)
Standard bar length: 2 meters (specials upon request)
- Barre flessibili in Rame Stagnato o Alluminio su richiesta
Tin-plated Copper or Aluminium flexible bars upon request

Temperatura ambiente di riferimento 35°C secondo norma DIN 43671

La portata è riferita alla temperatura rilevata sul conduttore = rialzo termico ΔT + temperatura ambiente di riferimento
Referred to ambient temperature of 35°C following DIN 43671 norm

Current load is referred to conductor temperature = temperature rise ΔT + referred ambient temperature

K* = coefficiente di declassamento per impiego di barre in parallelo

esempio : 32x5x1 In a ΔT 50°C = 617 A

per n° 2 barre 32x5x1 in parallelo In = 617 A x 1,72 = 1061 A

per n° 3 barre 32x5x1 in parallelo In = 617 A x 2,25 = 1388 A

K* = derating coefficient for using bars in parallel

example : 32x5x1 In at ΔT 50°C = 617 A

for n° 2 bars 32x5x1 in parallel In = 617 A x 1,72 = 1061 A

for n° 3 barre 32x5x1 in parallel In = 617 A x 2,25 = 1388 A

Corrente di corto circuito (Icc) per barre flessibili isolate : parametri di riferimento

Una barra flessibile per fase

Temperatura iniziale : 105 °C - temperatura di funzionamento massima del conduttore

Temperatura finale : 160 °C - limite di temperatura del materiale isolante in PVC secondo IEC 60724 se la sezione è < 300mm²

Temperatura finale : 140 °C - limite di temperatura del materiale isolante in PVC secondo IEC 60724 se la sezione è > 300mm²

Icc: valore della corrente di cortocircuito in kA - t = 1 s (durata del corto circuito in secondi)

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

One flexible element per phase

Initial temperature: 105 °C - maximal operating temperature of the conductor

Final temperature: 160 °C - temperature limit of the insulation material PVC in accordance with IEC 60724 if cross section < 300mm²

Final temperature: 140 °C - 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)

Certificazione:

Approval:



File no. E366472

COLLEGAMENTI PREFABBRICATI IN BARRA FLESSIBILE ISOLATA PREFABRICATED FLEXIBLE BAR CONNECTIONS

Siamo inoltre in grado di realizzare collegamenti speciali in barra flessibile secondo specifiche cliente.

We can also realize special flexible bar conductors according customers' requirements.



BARRE FLESSIBILI ISOLATE

INSULATED FLEXIBLE BARS

Codice Item	Dimensioni Dimensions	Largh. Width	Spess. Thick.	Lamine Strips	Sezione Section	Portata secondo Rialzo Termico ΔT					K *		Icc kA
						Current Load following Temperature Rise ΔT					n° 2	n° 3	
						30° C	40° C	50° C	60° C	70° C			
FB 09-2	9x0,8x2	9	x 0,8	x 2	14,4	95 A	114 A	130 A	144 A	157 A	1,72	2,25	1,25
FB 09-3	9x0,8x3	9	x 0,8	x 3	21,6	119 A	140 A	162 A	180 A	195 A	1,72	2,25	1,88
FB 09-6	9x0,8x6	9	x 0,8	x 6	43,2	176 A	210 A	240 A	256 A	290 A	1,72	2,25	3,75
FB 09-9	9x0,8x9	9	x 0,8	x 9	64,8	225 A	268 A	306 A	340 A	370 A	1,72	2,25	5,63
FB 13-2	13x0,5x2	13	x 0,5	x 2	13	97 A	116 A	132 A	147 A	160 A	1,72	2,25	1,13
FB 13-3	13x0,5x3	13	x 0,5	x 3	19,5	120 A	143 A	163 A	180 A	198 A	1,72	2,25	1,70
FB 13-4	13x0,5x4	13	x 0,5	x 4	26	140 A	166 A	190 A	210 A	230 A	1,72	2,25	2,26
FB 13-6	13x0,5x6	13	x 0,5	x 6	39	174 A	207 A	237 A	263 A	288 A	1,72	2,25	3,40
FB 13-10	13x0,5x10	13	x 0,5	x 10	65	232 A	275 A	316 A	350 A	363 A	1,72	2,25	5,65
FB 16-2	15,5x0,8x2	15,5	x 0,8	x 2	24,8	140 A	168 A	192 A	214 A	234 A	1,72	2,25	2,15
FB 16-3	15,5x0,8x3	15,5	x 0,8	x 3	37,2	175 A	209 A	239 A	255 A	290 A	1,72	2,25	3,23
FB 16-4	15,5x0,8x4	15,5	x 0,8	x 4	49,6	205 A	244 A	279 A	310 A	339 A	1,72	2,25	4,31
FB 16-6	15,5x0,8x6	15,5	x 0,8	x 6	74,4	257 A	306 A	350 A	389 A	424 A	1,72	2,25	6,47
FB 16-8	15,5x0,8x8	15,5	x 0,8	x 8	99,2	303 A	360 A	412 A	458 A	500 A	1,72	2,25	8,90
FB 16-10	15,5x0,8x10	15,5	x 0,8	x 10	124	345 A	410 A	470 A	523 A	570 A	1,72	2,25	10,78
FB 20-2	20x1x2	20	x 1	x 2	40	193 A	220 A	263 A	292 A	319 A	1,72	2,25	3,48
FB 20-3	20x1x3	20	x 1	x 3	60	240 A	285 A	326 A	363 A	396 A	1,72	2,25	5,22
FB 20-4	20x1x4	20	x 1	x 4	80	280 A	324 A	381 A	424 A	463 A	1,72	2,25	6,96
FB 20-5	20x1x5	20	x 1	x 5	100	316 A	377 A	430 A	479 A	523 A	1,72	2,25	8,70
FB 20-6	20x1x6	20	x 1	x 6	120	350 A	418 A	477 A	521 A	580 A	1,72	2,25	10,43
FB 20-8	20x1x8	20	x 1	x 8	160	412 A	492 A	562 A	625 A	683 A	1,72	2,25	13,91
FB 20-10	20x1x10	20	x 1	x 10	200	470 A	560 A	640 A	710 A	776 A	1,72	2,25	17,40
FB 24-2	24x1x2	24	x 1	x 2	48	223 A	255 A	303 A	337 A	368 A	1,72	2,25	4,17
FB 24-3	24x1x3	24	x 1	x 3	72	276 A	329 A	375 A	417 A	456 A	1,72	2,25	6,26
FB 24-4	24x1x4	24	x 1	x 4	96	322 A	383 A	438 A	487 A	532 A	1,72	2,25	8,35
FB 24-5	24x1x5	24	x 1	x 5	120	363 A	438 A	494 A	550 A	600 A	1,72	2,25	10,43
FB 24-6	24x1x6	24	x 1	x 6	144	402 A	479 A	547 A	608 A	664 A	1,72	2,25	12,52
FB 24-8	24x1x8	24	x 1	x 8	192	470 A	552 A	641 A	713 A	779 A	1,72	2,25	16,70
FB 24-10	24x1x10	24	x 1	x 10	240	534 A	637 A	727 A	809 A	883 A	1,72	2,25	20,87
FB 32-2	32x1x2	32	x 1	x 2	64	280 A	334 A	382 A	424 A	463 A	1,72	2,25	5,57
FB 32-3	32x1x3	32	x 1	x 3	96	346 A	413 A	470 A	524 A	572 A	1,72	2,25	8,35
FB 32-4	32x1x4	32	x 1	x 4	128	402 A	480 A	548 A	610 A	668 A	1,72	2,25	11,13
FB 32-5	32x1x5	32	x 1	x 5	160	453 A	540 A	617 A	686 A	749 A	1,72	2,25	13,91
FB 32-6	32x1x6	32	x 1	x 6	192	500 A	596 A	680 A	756 A	826 A	1,72	2,25	16,70
FB 32-8	32x1x8	32	x 1	x 8	256	583 A	695 A	793 A	882 A	963 A	1,72	2,25	22,26
FB 32-10	32x1x10	32	x 1	x 10	320	657 A	783 A	894 A	995 A	1085 A	1,72	2,25	22,50
FB 40-2	40x1x2	40	x 1	x 2	80	337 A	401 A	458 A	510 A	556 A	1,72	2,25	6,96
FB 40-3	40x1x3	40	x 1	x 3	120	415 A	494 A	565 A	628 A	686 A	1,72	2,25	10,44
FB 40-4	40x1x4	40	x 1	x 4	160	480 A	574 A	655 A	729 A	796 A	1,72	2,25	13,91
FB 40-5	40x1x5	40	x 1	x 5	200	540 A	644 A	736 A	818 A	894 A	1,72	2,25	17,39
FB 40-6	40x1x6	40	x 1	x 6	240	594 A	708 A	809 A	900 A	982 A	1,72	2,25	20,87
FB 40-8	40x1x8	40	x 1	x 8	320	690 A	822 A	939 A	1044 A	1140 A	1,72	2,25	22,50
FB 40-10	40x1x10	40	x 1	x 10	400	774 A	922 A	1053 A	1171 A	1279 A	1,65	2,12	28,12
FB 50-3	50x1x3	50	x 1	x 3	150	498 A	594 A	679 A	755 A	824 A	1,72	2,25	13,04
FB 50-4	50x1x4	50	x 1	x 4	200	577 A	688 A	786 A	874 A	954 A	1,72	2,25	17,39
FB 50-5	50x1x5	50	x 1	x 5	250	645 A	770 A	880 A	978 A	1058 A	1,72	2,25	21,10
FB 50-6	50x1x6	50	x 1	x 6	300	709 A	844 A	965 A	1073 A	1170 A	1,65	2,12	21,74
FB 50-8	50x1x8	50	x 1	x 8	400	818 A	975 A	1114 A	1238 A	1352 A	1,65	2,12	28,12
FB 50-10	50x1x10	50	x 1	x 10	500	914 A	1089 A	1244 A	1383 A	1510 A	1,72	2,12	35,15
FB 63-3	63x1x3	63	x 1	x 3	189	604 A	720 A	823 A	915 A	998 A	1,65	2,12	16,44
FB 63-4	63x1x4	63	x 1	x 4	252	698 A	832 A	960 A	1058 A	1153 A	1,65	2,12	21,92
FB 63-5	63x1x5	63	x 1	x 5	315	779 A	929 A	1050 A	1179 A	1288 A	1,65	2,12	22,14
FB 63-6	63x1x6	63	x 1	x 6	378	852 A	1015 A	1159 A	1289 A	1408 A	1,65	2,12	26,57
FB 63-8	63x1x8	63	x 1	x 8	504	978 A	1166 A	1332 A	1480 A	1617 A	1,65	2,12	35,43
FB 63-10	63x1x10	63	x 1	x 10	630	1088 A	1295 A	1480 A	1646 A	1796 A	1,65	2,12	44,29
FB 80-3	80x1x3	80	x 1	x 3	240	729 A	880 A	1005 A	1119 A	1220 A	1,65	2,12	20,88
FB 80-4	80x1x4	80	x 1	x 4	320	850 A	1014 A	1158 A	1286 A	1405 A	1,65	2,12	22,50
FB 80-5	80x1x5	80	x 1	x 5	400	947 A	1128 A	1289 A	1433 A	1565 A	1,65	2,12	28,12
FB 80-6	80x1x6	80	x 1	x 6	480	1032 A	1228 A	1404 A	1562 A	1705 A	1,65	2,12	33,74
FB 80-8	80x1x8	80	x 1	x 8	640	1179 A	1405 A	1504 A	1784 A	1948 A	1,65	2,12	44,99
FB 80-10	80x1x10	80	x 1	x 10	800	1305 A	1556 A	1776 A	1976 A	2156 A	1,65	2,12	56,24
FB 100-4	100x1x4	100	x 1	x 4	400	1089 A	1297 A	1480 A	1648 A	1799 A	1,6	2,02	29,55
FB 100-5	100x1x5	100	x 1	x 5	500	1135 A	1354 A	1545 A	1720 A	1878 A	1,6	2,02	35,15
FB 100-6	100x1x6	100	x 1	x 6	600	1235 A	1470 A	1680 A	1869 A	2040 A	1,6	2,02	42,18
FB 100-8	100x1x8	100	x 1	x 8	800	1404 A	1674 A	1912 A	2125 A	2320 A	1,6	2,02	56,24
FB 100-10	100x1x10	100	x 1	x 10	1000	1550 A	1848 A	2110 A	2347 A	2562 A	1,6	2,02	70,30
FB 100-12	100x1x12	100	x 1	x 12	1200	1680 A	2002 A	2267 A	2543 A	2776 A	1,6	2,02	84,36
FB 120-4	120x1x4	120	x 1	x 4	480	1135 A	1350 A	1544 A	1718 A	1875 A	1,6	2,02	33,98
FB 120-5	120x1x5	120	x 1	x 5	600	1358 A	1615 A	1848 A	2055 A	2244 A	1,6	2,02	40,42
FB 120-6	120x1x6	120	x 1	x 6	720	1420 A	1690 A	1932 A	2148 A	2345 A	1,6	2,02	48,50
FB 120-8	120x1x8	120	x 1	x 8	960	1614 A	1925 A	2198 A	2443 A	2668 A	1,5	1,95	64,68
FB 120-10	120x1x10	120	x 1	x 10	1200	1848 A	2200 A	2490 A	2795 A	3053 A	1,5	1,95	80,85