



TECHNICAL CHARACTERISTICS

Conductor

Tinned electrolytic copper:
Cu-ETP - EN 13599
Laminate thickness:
0.5 - 0.8 - 1 mm



Insulation

TPE compound
Black color with a light blue line
Low smoke emission
Self-extinguishing: UL 94-V0
Halogen free
Thickness: 1.9 mm
Dielectric rigidity: 20 kV / mm
Class II according to Par. 8.4.4 IEC 61439-1
Recyclable

Finished product

Rated voltage:
1000 V AC / 1500 V DC
Working temperature:

-40 °C ÷ +140 °C



CHOICE $I_n - \Delta T$

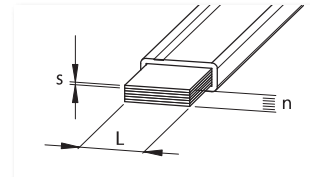
I_n = Rated current A
 ΔT = Temperature rise °C
 T_f = Working temperature °C
 T_a = Room temperature °C

EXAMPLE:

If the final operating temperature is 90 °C, consider the value corresponding to a thermal rise of 55 °C, as the following relationship applies: $T_f = T_a + \Delta T$
90 °C = 35 °C + 55 °C

REFERENCE EXAMPLE

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




DERATING COEFFICIENT FOR THE USE OF BARS IN PARALLEL

| Bar width (L) | Number of bars in parallel | | |
|--------------------|----------------------------|------|-------|
| | // | /// | // // |
| L < 63 mm | 1.72 | 2.25 | 2.93 |
| 63 mm ≤ L < 100 mm | 1.65 | 2.12 | 2.7 |
| L = 100 mm | 1.6 | 2.02 | 2.4 |

UPON REQUEST: Red copper laminates.

2 METERS LENGTH

Table of ampacity (A) based on temperature rise ΔT as per IEC 61439-1
Reference room temperature 35°C

| L | Code | Reference |  | Weight (kg) | Sect. (mm ²) | Temperature rise ΔT | | | |
|---------|---------|-----------------|---|-------------|--------------------------|-----------------------------|-------|-------|--------|
| | | | | | | 35 °C | 55 °C | 70 °C | 105 °C |
| | | | | | | Rated Intensity In (A) | | | |
| 9 | CFX5005 | CFP 3X9X0,8 | 6 | 0,44 | 21,6 | 134 | 172 | 196 | 242 |
| | CFX5020 | CFP 6X9X0,8 | 6 | 0,83 | 43,2 | 201 | 257 | 292 | 361 |
| | CFX5021 | CFP 9X9X0,8 | 4 | 1,22 | 64,8 | 258 | 330 | 375 | 464 |
| 13 | CFX5022 | CFP 3X13X0,5 | 6 | 0,39 | 19,5 | 134 | 172 | 195 | 241 |
| | CFX5023 | CFP 6X13X0,5 | 6 | 0,84 | 39 | 196 | 251 | 285 | 353 |
| | CFX5024 | CFP 10X13X0,5 | 4 | 1,32 | 65 | 263 | 337 | 383 | 473 |
| 15,5 | CFX5025 | CFP 2X15,5X0,8 | 6 | 0,6 | 24,8 | 158 | 202 | 230 | 284 |
| | CFX5035 | CFP 4X15,5X0,8 | 6 | 1,05 | 49,6 | 230 | 295 | 335 | 414 |
| | CFX5045 | CFP 6X15,5X0,8 | 6 | 1,5 | 74,4 | 290 | 371 | 422 | 522 |
| 20 | CFX5050 | CFP 10X15,5X0,8 | 4 | 2,41 | 124 | 394 | 504 | 573 | 709 |
| | CFX5055 | CFP 2X20X1 | 6 | 0,9 | 40 | 215 | 275 | 312 | 386 |
| | CFX5060 | CFP 3X20X1 | 6 | 1,26 | 60 | 267 | 342 | 389 | 482 |
| | CFX5065 | CFP 4X20X1 | 6 | 1,63 | 80 | 314 | 402 | 457 | 565 |
| | CFX5070 | CFP 5X20X1 | 6 | 2 | 100 | 356 | 456 | 519 | 641 |
| | CFX5075 | CFP 6X20X1 | 6 | 2,35 | 120 | 396 | 506 | 576 | 713 |
| | CFX5076 | CFP 8X20X1 | 4 | 3,08 | 160 | 469 | 600 | 683 | 845 |
| | CFX5080 | CFP 10X20X1 | 4 | 3,81 | 200 | 537 | 687 | 782 | 968 |
| | CFX5085 | CFP 2X24X1 | 4 | 1,07 | 48 | 247 | 315 | 359 | 444 |
| | CFX5090 | CFP 3X24X1 | 4 | 1,51 | 72 | 307 | 392 | 446 | 552 |
| 24 | CFX5095 | CFP 4X24X1 | 3 | 1,95 | 96 | 359 | 460 | 523 | 647 |
| | CFX5100 | CFP 5X24X1 | 3 | 2,38 | 120 | 407 | 521 | 592 | 733 |
| | CFX5105 | CFP 6X24X1 | 3 | 2,81 | 144 | 451 | 578 | 657 | 813 |
| | CFX5110 | CFP 8X24X1 | 2 | 3,68 | 192 | 533 | 683 | 777 | 961 |
| | CFX5115 | CFP 10X24X1 | 2 | 4,55 | 240 | 609 | 779 | 887 | 1098 |
| | 32 | CFX5120 | CFP 2X32X1 | 4 | 1,42 | 64 | 309 | 395 | 449 |
| CFX5125 | | CFP 3X32X1 | 4 | 1,99 | 96 | 383 | 489 | 557 | 689 |
| CFX5130 | | CFP 4X32X1 | 3 | 2,57 | 128 | 447 | 572 | 650 | 805 |
| CFX5135 | | CFP 5X32X1 | 3 | 3,14 | 160 | 505 | 646 | 735 | 910 |
| CFX5140 | | CFP 6X32X1 | 3 | 3,73 | 192 | 559 | 715 | 813 | 1007 |
| CFX5145 | | CFP 8X32X1 | 2 | 4,88 | 256 | 657 | 841 | 957 | 1185 |
| CFX5150 | | CFP 10X32X1 | 2 | 6,03 | 320 | 746 | 955 | 1088 | 1347 |
| CFX5155 | | CFP 2X40X1 | 4 | 1,76 | 80 | 369 | 471 | 536 | 664 |
| CFX5160 | | CFP 3X40X1 | 4 | 2,48 | 120 | 456 | 583 | 664 | 821 |
| CFX5165 | | CFP 4X40X1 | 3 | 3,2 | 160 | 532 | 680 | 774 | 958 |
| 40 | CFX5170 | CFP 5X40X1 | 3 | 3,91 | 200 | 599 | 767 | 873 | 1080 |
| | CFX5175 | CFP 6X40X1 | 3 | 4,64 | 240 | 662 | 847 | 964 | 1193 |
| | CFX5180 | CFP 8X40X1 | 2 | 6,07 | 320 | 775 | 992 | 1129 | 1399 |
| | CFX5185 | CFP 10X40X1 | 2 | 7,51 | 400 | 877 | 1123 | 1278 | 1585 |
| | 50 | CFX5190 | CFP 3X50X1 | 4 | 3,09 | 150 | 546 | 698 | 794 |
| CFX5195 | | CFP 4X50X1 | 3 | 3,98 | 200 | 635 | 811 | 923 | 1143 |
| CFX5200 | | CFP 5X50X1 | 3 | 4,88 | 250 | 714 | 913 | 1039 | 1287 |
| CFX5205 | | CFP 6X50X1 | 3 | 5,77 | 300 | 786 | 1006 | 1145 | 1418 |
| CFX5210 | | CFP 8X50X1 | 2 | 7,57 | 400 | 916 | 1173 | 1336 | 1656 |
| CFX5215 | | CFP 10X50X1 | 2 | 9,37 | 500 | 1033 | 1323 | 1507 | 1869 |
| CFX5220 | | CFP 3X63X1 | 1 | 3,87 | 189 | 659 | 842 | 958 | 1187 |
| 63 | CFX5225 | CFP 4X63X1 | 1 | 5,01 | 252 | 764 | 977 | 1112 | 1377 |
| | CFX5230 | CFP 5X63X1 | 1 | 6,13 | 315 | 857 | 1097 | 1248 | 1547 |
| | CFX5235 | CFP 6X63X1 | 1 | 7,26 | 378 | 942 | 1205 | 1372 | 1701 |
| | CFX5240 | CFP 8X63X1 | 1 | 9,52 | 504 | 1093 | 1399 | 1593 | 1977 |
| | CFX5245 | CFP 10X63X1 | 1 | 11,7 | 630 | 1227 | 1571 | 1790 | 2223 |
| 80 | CFX5250 | CFP 3X80X1 | 1 | 4,9 | 240 | 803 | 1026 | 1167 | 1445 |
| | CFX5255 | CFP 4X80X1 | 1 | 6,34 | 320 | 928 | 1186 | 1350 | 1673 |
| | CFX5260 | CFP 5X80X1 | 1 | 7,76 | 400 | 1038 | 1328 | 1511 | 1874 |
| | CFX5265 | CFP 6X80X1 | 1 | 9,2 | 480 | 1138 | 1455 | 1657 | 2056 |
| | CFX5270 | CFP 8X80X1 | 1 | 12,1 | 640 | 1314 | 1682 | 1916 | 2378 |
| | CFX5275 | CFP 10X80X1 | 1 | 14,9 | 800 | 1468 | 1881 | 2143 | 2663 |
| | CFX5280 | CFP 4X100X1 | 1 | 7,9 | 400 | 1114 | 1424 | 1620 | 2009 |
| 100 | CFX5285 | CFP 5X100X1 | 1 | 9,7 | 500 | 1243 | 1589 | 1809 | 2244 |
| | CFX5290 | CFP 6X100X1 | 1 | 11,5 | 600 | 1358 | 1738 | 1979 | 2456 |
| | CFX5295 | CFP 8X100X1 | 1 | 15,1 | 800 | 1561 | 1999 | 2277 | 2829 |
| | CFX5300 | CFP 10X100X1 | 1 | 18,7 | 1000 | 1739 | 2227 | 2538 | 3156 |
| | CFX5305 | CFP 12X100X1 | 1 | 22,2 | 1200 | 1899 | 2433 | 2774 | 3450 |

Items in stock. Other sizes available upon request.