

FRHF-XCMK / BFSI

Copper power cable FRHF

0,6/1 (1,2) kV



FlameRex

Application

Fire-resistant power cable for fixed installations indoors and outdoors. May be buried directly in soil. For locations where safety requires the operation of alarm, control, signalling and energy circuits also during a fire. The conductor insulation must be protected against UV-radiation. Installations must be in accordance with national regulations and rules of installations. No requirement for CPR-classification.

Design

| | |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standards | SFS 5547, HD 604 5 D |
| Conductor | 1,5-6 mm ² circular solid copper, EN/IEC 60228 class 1 10-25 mm ² circular stranded copper, EN/IEC 60228 class 2 35-240 mm ² sector shaped stranded copper, EN/IEC 60228 class 2 |
| Insulation | Cross-linked polyethylene XLPE and mica-tape |
| Core | Blue, brown |
| Identification | Brown, black, grey Blue, brown, black, grey |
| Inner covering | Extruded filling compound |
| Metal screen | Copper wires and copper tape |
| Oversheath | UV-protected polyolefin compound, Orange |

Temperature limits

| | |
|---------------------------------------------------|-----|
| Max. conductor temperature °C | 90 |
| Max. cond. temp. short circuit max. 5 s °C | 250 |
| Min. cable temperature during operation °C | -50 |
| Min. cable temperature during handling °C | -15 |
| Min. cable temperature during transport °C | -25 |

Additional information

IEC 60331-21 Fire-resistant, 180 min.
IEC 60331-1, -2 EN 50200, EN 50362 Fire-resistant with shock, 90 min.
EN/IEC 60332-3-24 Flame retardant in a bunch, Category C
EN/IEC 61034 Low smoke density
EN/IEC 60754 Halogen-free, non-corrosive

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| Technical information | 2x1,5/1,5 | 2x2,5/2,5 | 2x4/4 | 2x6/6 | 2x10/10 | 2x16/16 | 2x25/16 | 2x35/16 | 3x1,5/1,5 | 3x2,5/2,5 |
|-----------------------------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Product code | 1146810 | 1146811 | 1146812 | 1146813 | 1146814 | 1146815 | 1146816 | 1146817 | 1146819 | 1146820 |
| Nominal cross-sectional area of conductor mm ² | 1,5 | 2,5 | 4 | 6 | 10 | 16 | 25 | 35 | 1,5 | 2,5 |
| Nominal thickness of insulation mm | 0,7 | 0,7 | 0,7 | 0,7 | 0,7 | 0,7 | 0,9 | 0,9 | 0,7 | 0,7 |
| Nominal size of metal screen mm ² | 1,5 | 2,5 | 4 | 6 | 10 | 16 | 16 | 16 | 1,5 | 2,5 |
| Nominal thickness of oversheath mm | 1,8 | 1,8 | 1,8 | 1,8 | 1,8 | 1,8 | 1,8 | 1,8 | 1,8 | 1,8 |
| Fire load MJ/m | 2,221 | 2,463 | 2,957 | 3,461 | 4,546 | 5,529 | 7,689 | 8,321 | 2,522 | 2,795 |
| Fire load kWh/m | 0,617 | 0,684 | 0,821 | 0,962 | 1,263 | 1,536 | 2,136 | 2,312 | 0,701 | 0,776 |
| Nominal cable diameter mm | 12,270 | 13,030 | 14,650 | 16,090 | 18,870 | 21,430 | 25,560 | 26,580 | 12,950 | 13,770 |
| Nominal cable weight kg/km | 200,338 | 245,439 | 332,037 | 433,854 | 622,290 | 866,125 | 1193,433 | 1401,710 | 223,223 | 276,684 |
| Nominal weight of copper kg/m | 0,040 | 0,066 | 0,109 | 0,164 | 0,266 | 0,424 | 0,595 | 0,756 | 0,053 | 0,088 |
| Maximum forces during installation when pulling by | | | | | | | | | | |
| Max. pulling force by pulling-eye kN | 0,0 | 0,0 | 0,1 | 0,1 | 0,3 | 0,4 | 0,7 | 1,0 | 0,0 | 0,1 |
| Max. pulling force by pulling-stocking kN | 0,0 | 0,1 | 0,1 | 0,2 | 0,4 | 0,6 | 1,0 | 1,4 | 0,0 | 0,1 |
| Minimum bending radii | | | | | | | | | | |
| During handling and installation, cable cm | 15 | 16 | 18 | 19 | 23 | 26 | 31 | 32 | 16 | 17 |
| In final installation, cable cm | 10 | 11 | 12 | 14 | 16 | 18 | 21 | 22 | 11 | 12 |
| Minimum bending radii | | | | | | | | | | |
| During handling and installation, cable m | 0,15 | 0,16 | 0,18 | 0,19 | 0,23 | 0,26 | 0,31 | 0,32 | 0,15 | 0,17 |
| In final installation, cable m | 0,10 | 0,11 | 0,12 | 0,14 | 0,16 | 0,18 | 0,21 | 0,22 | 0,11 | 0,12 |
| DC resistance | | | | | | | | | | |
| Max. DC resistance of conductor at 20 °C Ω/km | 12,1 | 7,41 | 4,61 | 3,08 | 1,83 | 1,15 | 0,727 | 0,524 | 12,1 | 7,41 |
| Maximum DC resistance at 20 °C, metal screen Ω/km | 12,1 | 7,41 | 4,61 | 3,08 | 1,83 | 1,15 | 1,15 | 1,15 | 12,1 | 7,41 |

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| Technical information | 2x1,5/1,5 | 2x2,5/2,5 | 2x4/4 | 2x6/6 | 2x10/10 | 2x16/16 | 2x25/16 | 2x35/16 | 3x1,5/1,5 | 3x2,5/2,5 |
|-----------------------------------------------------------------------------|-----------|-----------|-------|-------|---------|---------|---------|---------|-----------|-----------|
| Current ratings | | | | | | | | | | |
| Cables in air (25 °C) | | | | | | | | | | |
| two loaded conductor, conductor 70 °C A | 23 | 31 | 42 | 53 | 73 | 98 | 124 | 154 | 23 | 31 |
| three loaded conductor, conductor 70 °C A | | | | | | | | | 19 | 26 |
| two loaded conductor, conductor 90 °C A | 27 | 37 | 51 | 66 | 89 | 120 | 155 | 192 | 27 | 37 |
| three loaded conductor, conductor 90 °C A | | | | | | | | | 24 | 33 |
| Cables in air (30 °C) | | | | | | | | | | |
| two loaded conductor, conductor 70 °C A | 22 | 30 | 40 | 51 | 70 | 94 | 119 | 148 | 22 | 30 |
| three loaded conductor, conductor 70 °C A | | | | | | | | | 18,5 | 25 |
| two loaded conductor, conductor 90 °C A | 26 | 36 | 49 | 63 | 86 | 115 | 149 | 185 | 26 | 36 |
| three loaded conductor, conductor 90 °C A | | | | | | | | | 23 | 32 |
| Cables in the ground (15 °C and 1,0 K.m/W), Installation depth 0,7 m | | | | | | | | | | |
| Cables in the ground, conductor 65 °C A | 26 | 35 | 46 | 57 | 77 | 100 | 130 | 160 | 26 | 35 |
| Cables in the ground (20 °C and 2,5 K.m/W), Installation depth 0,7 m | | | | | | | | | | |
| Cables in the ground, conductor 90 °C A | 27 | 35 | 46 | 58 | 77 | 100 | 129 | 155 | 23 | 30 |
| Maximum thermal short circuit current during 1 s | | | | | | | | | | |
| Phase (initial 65 °C, final 250 °C) kA | 0,2 | 0,3 | 0,6 | 0,9 | 1,6 | 2,5 | 3,9 | 5,5 | 0,2 | 0,3 |
| Phase (initial 90 °C, final 250 °C) kA | 0,2 | 0,3 | 0,5 | 0,8 | 1,4 | 2,3 | 3,6 | 5,0 | 0,2 | 0,3 |
| Metal screen (initial 80 °C, final 250 °C) kA | 0,2 | 0,4 | 0,6 | 0,9 | 1,5 | 2,4 | 2,4 | 2,4 | 0,2 | 0,4 |

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| Technical information | 3x4/4 | 3x6/6 | 3x10/10 | 3x16/16 | 3x25/16 | 3x35/16 | 3x50/25 | 3x70/35 | 3x95/50 | 3x120/70 |
|-----------------------------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Product code | 1146821 | 1146822 | 1146823 | 1146824 | 1146825 | 1146826 | 1146827 | 1146828 | 1146829 | 1146830 |
| Nominal cross-sectional area of conductor mm ² | 4 | 6 | 10 | 16 | 25 | 35 | 50 | 70 | 95 | 120 |
| Nominal thickness of insulation mm | 0,7 | 0,7 | 0,7 | 0,7 | 0,9 | 0,9 | 1,0 | 1,1 | 1,1 | 1,2 |
| Nominal size of metal screen mm ² | 4 | 6 | 10 | 16 | 16 | 16 | 25 | 35 | 50 | 70 |
| Nominal thickness of oversheath mm | 1,8 | 1,8 | 1,8 | 1,8 | 1,8 | 1,8 | 1,8 | 1,9 | 2,1 | 2,2 |
| Fire load MJ/m | 3,406 | 3,807 | 5,012 | 6,635 | 8,321 | 7,702 | 10,199 | 13,198 | 14,144 | 16,920 |
| Fire load kWh/m | 0,946 | 1,058 | 1,392 | 1,843 | 2,311 | 2,140 | 2,833 | 3,666 | 3,929 | 4,700 |
| Nominal cable diameter mm | 15,660 | 16,780 | 19,740 | 22,500 | 26,420 | 26,210 | 30,120 | 33,820 | 37,150 | 40,090 |
| Nominal cable weight kg/km | 386,196 | 489,737 | 705,888 | 1009,497 | 1374,544 | 1481,933 | 2087,805 | 2888,385 | 3652,398 | 4653,298 |
| Nominal weight of copper kg/m | 0,145 | 0,218 | 0,352 | 0,562 | 0,816 | 1,056 | 1,493 | 2,093 | 2,903 | 3,725 |
| Maximum forces during installation when pulling by | | | | | | | | | | |
| Max. pulling force by pulling-eye kN | 0,1 | 0,2 | 0,4 | 0,7 | 1,1 | 1,5 | 2,2 | 3,1 | 4,2 | 5,4 |
| Max. pulling force by pulling-stocking kN | 0,2 | 0,3 | 0,6 | 0,9 | 1,5 | 2,1 | 3,0 | 4,2 | 5,7 | 7,2 |
| Minimum bending radii | | | | | | | | | | |
| During handling and installation, cable cm | 19 | 20 | 24 | 27 | 32 | 31 | 36 | 41 | 45 | 48 |
| In final installation, cable cm | 13 | 14 | 17 | 19 | 22 | 22 | 25 | 28 | 31 | 34 |
| Minimum bending radii | | | | | | | | | | |
| During handling and installation, cable m | 0,19 | 0,20 | 0,24 | 0,27 | 0,32 | 0,32 | 0,36 | 0,41 | 0,45 | 0,48 |
| In final installation, cable m | 0,13 | 0,14 | 0,17 | 0,19 | 0,22 | 0,22 | 0,25 | 0,28 | 0,31 | 0,34 |
| DC resistance | | | | | | | | | | |
| Max. DC resistance of conductor at 20 °C Ω/km | 4,61 | 3,08 | 1,83 | 1,15 | 0,727 | 0,524 | 0,387 | 0,268 | 0,193 | 0,153 |
| Maximum DC resistance at 20 °C, metal screen Ω/km | 4,61 | 3,08 | 1,83 | 1,15 | 1,15 | 1,15 | 0,727 | 0,524 | 0,387 | 0,268 |

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| Technical information | 3x4/4 | 3x6/6 | 3x10/10 | 3x16/16 | 3x25/16 | 3x35/16 | 3x50/25 | 3x70/35 | 3x95/50 | 3x120/70 |
|-----------------------------------------------------------------------------|-------|-------|---------|---------|---------|---------|---------|---------|---------|----------|
| Current ratings | | | | | | | | | | |
| Cables in air (25 °C) | | | | | | | | | | |
| two loaded conductor, conductor 70 °C A | 42 | 53 | 73 | 98 | 124 | 154 | 187 | 241 | 293 | 341 |
| three loaded conductor, conductor 70 °C A | 35 | 45 | 62 | 83 | 105 | 131 | 159 | 204 | 248 | 287 |
| two loaded conductor, conductor 90 °C A | 51 | 66 | 89 | 120 | 155 | 192 | 234 | 301 | 366 | 426 |
| three loaded conductor, conductor 90 °C A | 44 | 56 | 78 | 104 | 132 | 164 | 200 | 256 | 310 | 360 |
| Cables in air (30 °C) | | | | | | | | | | |
| two loaded conductor, conductor 70 °C A | 40 | 51 | 70 | 94 | 119 | 148 | 180 | 232 | 282 | 328 |
| three loaded conductor, conductor 70 °C A | 34 | 43 | 60 | 80 | 101 | 126 | 153 | 196 | 238 | 276 |
| two loaded conductor, conductor 90 °C A | 49 | 63 | 86 | 115 | 149 | 185 | 225 | 289 | 352 | 410 |
| three loaded conductor, conductor 90 °C A | 42 | 54 | 75 | 100 | 127 | 158 | 192 | 246 | 298 | 346 |
| Cables in the ground (15 °C and 1,0 K.m/W), Installation depth 0,7 m | | | | | | | | | | |
| Cables in the ground, conductor 65 °C A | 46 | 57 | 77 | 100 | 130 | 160 | 190 | 240 | 285 | 325 |
| Cables in the ground (20 °C and 2,5 K.m/W), Installation depth 0,7 m | | | | | | | | | | |
| Cables in the ground, conductor 90 °C A | 39 | 49 | 65 | 84 | 107 | 129 | 153 | 188 | 226 | 257 |
| Maximum thermal short circuit current during 1 s | | | | | | | | | | |
| Phase (initial 65 °C, final 250 °C) kA | 0,6 | 0,9 | 1,6 | 2,5 | 3,9 | 5,5 | 7,8 | 10,9 | 14,9 | 18,8 |
| Phase (initial 90 °C, final 250 °C) kA | 0,5 | 0,8 | 1,4 | 2,3 | 3,6 | 5,0 | 7,2 | 10,0 | 13,6 | 17,2 |
| Metal screen (initial 80 °C, final 250 °C) kA | 0,6 | 0,9 | 1,5 | 2,4 | 2,4 | 2,4 | 3,7 | 5,2 | 7,4 | 10,4 |

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| Technical information | 3x150/70 | 3x185/95 | 3x240/120 | 4x1,5/1,5 | 4x2,5/2,5 | 4x4/4 | 4x6/6 | 4x10/10 | 4x16/16 | 4x25/16 |
|-----------------------------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Product code | 1146831 | 1146832 | 1146833 | 1146835 | 1146836 | 1146837 | 1146838 | 1146839 | 1146840 | 1146841 |
| Nominal cross-sectional area of conductor mm ² | 150 | 185 | 240 | 1,5 | 2,5 | 4 | 6 | 10 | 16 | 25 |
| Nominal thickness of insulation mm | 1,4 | 1,6 | 1,7 | 0,7 | 0,7 | 0,7 | 0,7 | 0,7 | 0,7 | 0,9 |
| Nominal size of metal screen mm ² | 70 | 95 | 120 | 1,5 | 2,5 | 4 | 6 | 10 | 16 | 16 |
| Nominal thickness of oversheath mm | 2,3 | 2,5 | 2,7 | 1,8 | 1,8 | 1,8 | 1,8 | 1,8 | 1,8 | 1,8 |
| Fire load MJ/m | 20,320 | 26,859 | 32,373 | 3,086 | 3,423 | 3,905 | 4,381 | 5,821 | 7,029 | 9,810 |
| Fire load kWh/m | 5,645 | 7,461 | 8,992 | 0,857 | 0,951 | 1,085 | 1,217 | 1,617 | 1,952 | 2,725 |
| Nominal cable diameter mm | 43,300 | 50,460 | 55,610 | 14,380 | 15,300 | 16,730 | 17,980 | 21,260 | 24,170 | 28,670 |
| Nominal cable weight kg/km | 5538,700 | 7143,555 | 9246,360 | 276,014 | 341,966 | 447,254 | 573,169 | 832,149 | 1177,879 | 1662,708 |
| Nominal weight of copper kg/m | 4,473 | 5,697 | 7,494 | 0,066 | 0,109 | 0,180 | 0,272 | 0,438 | 0,700 | 1,038 |
| Maximum forces during installation when pulling by | | | | | | | | | | |
| Max. pulling force by pulling-eye kN | 6,7 | 8,3 | 10,8 | 0,0 | 0,1 | 0,2 | 0,3 | 0,6 | 0,9 | 1,5 |
| Max. pulling force by pulling-stocking kN | 8,5 | 8,5 | 8,5 | 0,1 | 0,2 | 0,3 | 0,4 | 0,8 | 1,2 | 2,0 |
| Minimum bending radii | | | | | | | | | | |
| During handling and installation, cable cm | 52 | 61 | 67 | 17 | 18 | 20 | 22 | 26 | 29 | 34 |
| In final installation, cable cm | 36 | 42 | 47 | 12 | 13 | 14 | 15 | 18 | 20 | 24 |
| Minimum bending radii | | | | | | | | | | |
| During handling and installation, cable m | 0,52 | 0,61 | 0,67 | 0,17 | 0,18 | 0,20 | 0,22 | 0,26 | 0,29 | 0,34 |
| In final installation, cable m | 0,36 | 0,42 | 0,47 | 0,12 | 0,13 | 0,14 | 0,15 | 0,18 | 0,20 | 0,24 |
| DC resistance | | | | | | | | | | |
| Max. DC resistance of conductor at 20 °C Ω/km | 0,124 | 0,0991 | 0,0754 | 12,1 | 7,41 | 4,61 | 3,08 | 1,83 | 1,15 | 0,727 |
| Maximum DC resistance at 20 °C, metal screen Ω/km | 0,268 | 0,193 | 0,153 | 12,1 | 7,41 | 4,61 | 3,08 | 1,83 | 1,15 | 1,15 |

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| Technical information | 3x150/70 | 3x185/95 | 3x240/120 | 4x1,5/1,5 | 4x2,5/2,5 | 4x4/4 | 4x6/6 | 4x10/10 | 4x16/16 | 4x25/16 |
|-----------------------------------------------------------------------------|----------|----------|-----------|-----------|-----------|-------|-------|---------|---------|---------|
| Current ratings | | | | | | | | | | |
| Cables in air (25 °C) | | | | | | | | | | |
| two loaded conductor, conductor 70 °C A | 394 | 451 | 535 | 23 | 31 | 42 | 53 | 73 | 98 | 124 |
| three loaded conductor, conductor 70 °C A | 332 | 379 | 447 | 19 | 26 | 35 | 45 | 62 | 83 | 105 |
| two loaded conductor, conductor 90 °C A | 492 | 564 | 667 | 27 | 37 | 51 | 66 | 89 | 120 | 155 |
| three loaded conductor, conductor 90 °C A | 415 | 474 | 560 | 24 | 33 | 44 | 56 | 78 | 104 | 132 |
| Cables in air (30 °C) | | | | | | | | | | |
| two loaded conductor, conductor 70 °C A | 379 | 434 | 514 | 22 | 30 | 40 | 51 | 70 | 94 | 119 |
| three loaded conductor, conductor 70 °C A | 319 | 364 | 430 | 18,5 | 25 | 34 | 43 | 60 | 80 | 101 |
| two loaded conductor, conductor 90 °C A | 473 | 542 | 641 | 26 | 36 | 49 | 63 | 86 | 115 | 149 |
| three loaded conductor, conductor 90 °C A | 399 | 456 | 538 | 23 | 32 | 42 | 54 | 75 | 100 | 127 |
| Cables in the ground (15 °C and 1,0 K.m/W), Installation depth 0,7 m | | | | | | | | | | |
| Cables in the ground, conductor 65 °C A | 370 | 420 | 480 | 26 | 35 | 46 | 57 | 77 | 100 | 130 |
| Cables in the ground (20 °C and 2,5 K.m/W), Installation depth 0,7 m | | | | | | | | | | |
| Cables in the ground, conductor 90 °C A | 287 | 324 | 375 | 23 | 30 | 39 | 49 | 65 | 84 | 107 |
| Maximum thermal short circuit current during 1 s | | | | | | | | | | |
| Phase (initial 65 °C, final 250 °C) kA | 23,5 | 28,9 | 37,5 | 0,2 | 0,3 | 0,6 | 0,9 | 1,6 | 2,5 | 3,9 |
| Phase (initial 90 °C, final 250 °C) kA | 21,5 | 26,5 | 34,3 | 0,2 | 0,3 | 0,5 | 0,8 | 1,4 | 2,3 | 3,6 |
| Metal screen (initial 80 °C, final 250 °C) kA | 10,4 | 14,1 | 17,8 | 0,2 | 0,4 | 0,6 | 0,9 | 1,5 | 2,4 | 2,4 |

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| Technical information | 4x35/16 | 4x50/25 | 4x70/35 | 4x95/50 | 4x120/70 | 4x150/70 | 4x185/95 | 4x240/120 |
|-----------------------------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Product code | 1146842 | 1146843 | 1146844 | 1146845 | 1146846 | 1146847 | 1146848 | 1146849 |
| Nominal cross-sectional area of conductor mm ² | 35 | 50 | 70 | 95 | 120 | 150 | 185 | 240 |
| Nominal thickness of insulation mm | 0,9 | 1,0 | 1,1 | 1,1 | 1,2 | 1,4 | 1,6 | 1,7 |
| Nominal size of metal screen mm ² | 16 | 25 | 35 | 50 | 70 | 70 | 95 | 120 |
| Nominal thickness of oversheath mm | 1,8 | 1,9 | 2,1 | 2,2 | 2,3 | 2,5 | 2,7 | 2,9 |
| Fire load MJ/m | 9,592 | 12,263 | 14,716 | 17,421 | 20,265 | 25,291 | 34,026 | 39,808 |
| Fire load kWh/m | 2,664 | 3,406 | 4,088 | 4,839 | 5,629 | 7,025 | 9,452 | 11,058 |
| Nominal cable diameter mm | 28,580 | 33,210 | 35,490 | 40,820 | 44,370 | 48,750 | 56,550 | 61,940 |
| Nominal cable weight kg/km | 1880,757 | 2553,251 | 3458,196 | 4619,066 | 5782,365 | 7016,563 | 9080,633 | 11657,246 |
| Nominal weight of copper kg/m | 1,368 | 1,913 | 2,697 | 3,729 | 4,770 | 5,769 | 7,307 | 9,660 |
| Maximum forces during installation when pulling by | | | | | | | | |
| Max. pulling force by pulling-eye kN | 2,1 | 3,0 | 4,2 | 5,7 | 7,2 | 9,0 | 11,1 | 14,4 |
| Max. pulling force by pulling-stocking kN | 2,8 | 4,0 | 5,6 | 7,6 | 8,5 | 8,5 | 8,5 | 8,5 |
| Minimum bending radii | | | | | | | | |
| During handling and installation, cable cm | 34 | 40 | 43 | 49 | 53 | 59 | 68 | 74 |
| In final installation, cable cm | 24 | 28 | 30 | 34 | 37 | 41 | 48 | 52 |
| Minimum bending radii | | | | | | | | |
| During handling and installation, cable m | 0,34 | 0,40 | 0,43 | 0,49 | 0,53 | 0,58 | 0,68 | 0,74 |
| In final installation, cable m | 0,24 | 0,28 | 0,30 | 0,34 | 0,37 | 0,41 | 0,47 | 0,52 |
| DC resistance | | | | | | | | |
| Max. DC resistance of conductor at 20 °C Ω/km | 0,524 | 0,387 | 0,268 | 0,193 | 0,153 | 0,124 | 0,0991 | 0,0754 |
| Maximum DC resistance at 20 °C, metal screen Ω/km | 1,15 | 0,727 | 0,524 | 0,387 | 0,268 | 0,268 | 0,193 | 0,153 |

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| Technical information | 4x35/16 | 4x50/25 | 4x70/35 | 4x95/50 | 4x120/70 | 4x150/70 | 4x185/95 | 4x240/120 |
|-----------------------------------------------------------------------------|---------|---------|---------|---------|----------|----------|----------|-----------|
| Current ratings | | | | | | | | |
| Cables in air (25 °C) | | | | | | | | |
| two loaded conductor, conductor 70 °C A | 154 | 187 | 241 | 293 | 341 | 394 | 451 | 535 |
| three loaded conductor, conductor 70 °C A | 131 | 159 | 204 | 248 | 287 | 332 | 379 | 447 |
| two loaded conductor, conductor 90 °C A | 192 | 234 | 301 | 366 | 426 | 492 | 564 | 667 |
| three loaded conductor, conductor 90 °C A | 164 | 200 | 256 | 310 | 360 | 415 | 474 | 560 |
| Cables in air (30 °C) | | | | | | | | |
| two loaded conductor, conductor 70 °C A | 148 | 180 | 232 | 282 | 328 | 379 | 434 | 514 |
| three loaded conductor, conductor 70 °C A | 126 | 153 | 196 | 238 | 276 | 319 | 364 | 430 |
| two loaded conductor, conductor 90 °C A | 185 | 225 | 289 | 352 | 410 | 473 | 542 | 641 |
| three loaded conductor, conductor 90 °C A | 158 | 192 | 246 | 298 | 346 | 399 | 456 | 538 |
| Cables in the ground (15 °C and 1,0 K.m/W), Installation depth 0,7 m | | | | | | | | |
| Cables in the ground, conductor 65 °C A | 160 | 190 | 240 | 285 | 325 | 370 | 420 | 480 |
| Cables in the ground (20 °C and 2,5 K.m/W), Installation depth 0,7 m | | | | | | | | |
| Cables in the ground, conductor 90 °C A | 129 | 153 | 188 | 226 | 257 | 287 | 324 | 375 |
| Maximum thermal short circuit current during 1 s | | | | | | | | |
| Phase (initial 65 °C, final 250 °C) kA | 5,5 | 7,8 | 10,9 | 14,9 | 18,8 | 23,5 | 28,9 | 37,5 |
| Phase (initial 90 °C, final 250 °C) kA | 5,0 | 7,2 | 10,0 | 13,6 | 17,2 | 21,5 | 26,5 | 34,3 |
| Metal screen (initial 80 °C, final 250 °C) kA | 2,4 | 3,7 | 5,2 | 7,4 | 10,4 | 10,4 | 14,1 | 17,8 |