# XCMK-HF / FXQJ / IFSI-Cu

## Copper power cable

## 0,6/1 (1,2) kV

## Application

Copper power cable for fixed installations indoors and outdoors. May be buried directly in soil. The conductor insulation must be protected against UV-radiation. Installations must be in accordance with national regulations and rules of installations. The cable is halogen-free and flame-retardant according to CPR-class Dca-s2,d2,a2.

## Design

| | |
|---|---|
| **Standards** | SFS 5546, SEK TS 424 14 18-1, HD 604 5 I & D, IEC 60502-1 |
| **Reaction to fire** | Dca-s2,d2,a2; EN 13501-6, EN 50575:2014+A1:2016 |
| **Conductor** | 2,5-25 mm² circular stranded copper, EN/IEC 60228 class 2<br>35-300 mm² sector shaped stranded copper, EN/IEC 60228 class 2 |
| **Insulation** | Cross-linked polyethylene XLPE |
| **Core Identification** | Blue, brown<br>Brown, black, grey<br>Blue, brown, black, grey |
| **Inner covering** | Extruded filling compound |
| **Metal screen** | Copper wires and copper tape |
| **Oversheath** | UV-protected polyolefin compound , Black |

## 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 |

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| Technical information | 2x4/4 | 2x10/10 | 2x16/16 | 2x25/16 | 2x25/16 | 2x35/16 | 3x2,5/2,5 | 3x6/6 | 3x10/10 | 3x16/16 |
|---|---|---|---|---|---|---|---|---|---|---|
| **Product code** | **1703352** | **1146109** | **1146110** | **1146111** | **1146120** | **1146112** | **1146263** | **1146265** | **1146229** | **1146230** |
| Nominal cable diameter mm | 14 | 18 | 20 | 24 | 24 | 25 | 14 | 16 | 18 | 21 |
| Nominal cable weight kg/km | 323 | 566 | 825 | 1134 | 1136 | 1278 | 271 | 455 | 651 | 952 |
| Nominal weight of copper kg/km | 111 | 266 | 424 | 596 | 594 | 754 | 90 | 215 | 352 | 561 |
| Nominal Insulation thicness mm | 0,7 | 0,7 | 0,7 | 0,9 | 0,9 | 0,9 | 0,7 | 0,7 | 0,7 | 0,7 |
| Nominal size of metal screen mm² | 4 | 10 | 16 | 16 | 16 | 16 | 2,5 | 6 | 10 | 16 |
| 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** | | | | | | | | | | |
| Fire load MJ/m | 3,008 | 4,038 | 5,407 | 7,026 | 7,157 | 7,125 | 2,771 | 3,680 | 4,758 | 6,090 |
| Fire load kWh/m | 0,835 | 1,122 | 1,502 | 1,952 | 1,988 | 1,979 | 0,770 | 1,022 | 1,322 | 1,692 |
| **Maximum forces during installation when pulling by** | | | | | | | | | | |
| Max. pulling force by pulling-eye kN | 0,4 | 1,0 | 1,6 | 2,5 | 2,5 | 3,5 | 0,4 | 0,9 | 1,5 | 2,4 |
| Max. pulling force by pulling-stocking kN | 0,1 | 0,3 | 0,5 | 0,8 | 0,8 | 1,1 | 0,1 | 0,3 | 0,5 | 0,7 |
| **Minimum bending radii** | | | | | | | | | | |
| Minimum bending radius, handling mm | 173 | 211 | 246 | 288 | 290 | 300 | 163 | 194 | 221 | 258 |
| Minimum bending radius, final bending mm | 121 | 148 | 172 | 201 | 203 | 210 | 114 | 136 | 155 | 180 |
| **Minimum bending radii** | | | | | | | | | | |
| During handling and installation, cable cm | 17 | 21 | 25 | 29 | 29 | 30 | 16 | 19 | 22 | 26 |
| In final installation, cable cm | 12 | 15 | 17 | 20 | 20 | 21 | 11 | 14 | 15 | 18 |
| **Minimum bending radii** | | | | | | | | | | |
| During handling and installation, cable m | 0,17 | 0,21 | 0,25 | 0,29 | 0,29 | 0,30 | 0,16 | 0,19 | 0,22 | 0,26 |
| In final installation, cable m | 0,12 | 0,15 | 0,17 | 0,20 | 0,20 | 0,21 | 0,11 | 0,14 | 0,15 | 0,18 |
| **DC resistance** | | | | | | | | | | |
| Max. DC resistance of conductor at 20 °C Ω/km | 4,61 | 1,83 | 1,15 | 0,727 | 0,727 | 0,524 | 7,41 | 3,08 | 1,83 | 1,15 |
| Maximum DC resistance at 20 °C, metal screen Ω/km | 4,61 | 1,83 | 1,15 | 1,15 | 1,15 | 1,15 | 7,41 | 3,08 | 1,83 | 1,15 |

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| Technical information | 2x4/4 | 2x10/10 | 2x16/16 | 2x25/16 | 2x25/16 | 2x35/16 | 3x2,5/2,5 | 3x6/6 | 3x10/10 | 3x16/16 |
|---|---|---|---|---|---|---|---|---|---|---|
| **Current ratings** | | | | | | | | | | |
| **Cables in air (25 °C)** | | | | | | | | | | |
| two loaded conductor, conductor 70 °C A | 42 | 73 | 98 | 124 | 124 | 154 | 31 | 53 | 73 | 98 |
| three loaded conductor, conductor 70 °C A | | | | | | | 26 | 45 | 62 | 83 |
| two loaded conductor, conductor 90 °C A | 51 | 89 | 120 | 155 | 155 | 192 | 37 | 66 | 89 | 120 |
| three loaded conductor, conductor 90 °C A | | | | | | | 33 | 56 | 78 | 104 |
| **Cables in air (30 °C)** | | | | | | | | | | |
| two loaded conductor, conductor 70 °C A | 40 | 70 | 94 | 119 | 119 | 148 | 30 | 51 | 70 | 94 |
| three loaded conductor, conductor 70 °C A | | | | | | | 25 | 43 | 60 | 80 |
| two loaded conductor, conductor 90 °C A | 49 | 86 | 115 | 149 | 149 | 185 | 36 | 63 | 86 | 115 |
| three loaded conductor, conductor 90 °C A | | | | | | | 32 | 54 | 75 | 100 |
| **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 | 77 | 100 | 130 | 130 | 160 | 35 | 57 | 77 | 100 |
| **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 | 46 | 77 | 100 | 129 | 129 | 155 | 30 | 49 | 65 | 84 |
| **Maximum thermal short circuit current during 1 s** | | | | | | | | | | |
| Phase (initial 65 °C, final 250 °C) kA | 0,6 | 1,6 | 2,5 | 3,9 | 3,9 | 5,5 | 0,3 | 0,9 | 1,6 | 2,5 |
| Phase (initial 90 °C, final 250 °C) kA | 0,5 | 1,4 | 2,3 | 3,6 | 3,6 | 5,0 | 0,3 | 0,8 | 1,4 | 2,3 |
| Metal screen (initial 80 °C, final 250 °C) kA | 0,6 | 1,5 | 2,4 | 2,4 | 2,4 | 2,4 | 0,4 | 0,9 | 1,5 | 2,4 |
| **Environmental information** | | | | | | | | | | |
| The product is a declared item in the Supply Chain Declaration Portal (or short ”SCDP”) for New Buildings generation 4 | | | | | | | | | | Yes |
| (A1-A3) GWP emission kgCO2e/km | | 2067 | 3131 | 4397 | 4404 | 4986 | | | 2415 | 3652 |
| GWP emissions calculation standard | | EN15804:2012 + A2:2019 | EN15804:2012 + A2:2019 | EN15804:2012 + A2:2019 | EN15804:2012 + A2:2019 | EN15804:2012 + A2:2019 | | | EN15804:2012 + A2:2019 | EN15804:2012 + A2:2019 |

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| STANDARD PACKAGES | 2x4/4 | 2x10/10 | 2x16/16 | 2x25/16 | 2x25/16 | 2x35/16 | 3x2,5/2,5 | 3x6/6 | 3x10/10 | 3x16/16 |
|---|---|---|---|---|---|---|---|---|---|---|
| Product code | | 1146109 | 1146110 | 1146111 | | 1146112 | | | 1146229 | 1146230 |
| GTIN code | | 6410006029914 | 6438176011652 | 6438176011669 | | 6438176011676 | | | 6410006023325 | 6410006023387 |
| Package | | 500 K10 | 1000 K14 | 1000 K16 | | 1000 K16 | | | 500 K11 | 500 K10 |
| | | | | | | | | | | |
| Product code | | 1146109 | 1146110 | | | | | | 1146229 | 1146230 |
| GTIN code | | 6438176011645 | 6410006029921 | | | | | | 6410006023349 | 6410006023394 |
| Package | | 1000 K12 | 500 K11 | | | | | | 1000 K12 | 1000 K14 |

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| Technical information | 3x25/16 | 3x35/16 | 3x50/25 | 3x70/35 | 3x95/50 | 3x120/70 | 3x150/70 | 3x185/95 | 3x240/120 | 3x300/150 |
|---|---|---|---|---|---|---|---|---|---|---|
| **Product code** | **1146231** | **1146232** | **1146233** | **1146234** | **1146235** | **1146236** | **1146237** | **1146238** | **1146239** | **1146240** |
| Nominal cable diameter mm | 25 | 23 | 26 | 29 | 34 | 37 | 41 | 45 | 53 | 56 |
| Nominal cable weight kg/km | 1313 | 1328 | 1815 | 2513 | 3391 | 4304 | 5180 | 6540 | 8551 | 10589 |
| Nominal weight of copper kg/km | 816 | 1056 | 1493 | 2102 | 2903 | 3725 | 4473 | 5692 | 7481 | 9384 |
| Nominal Insulation thicness mm | 0,9 | 0,9 | 1,0 | 1,1 | 1,1 | 1,2 | 1,4 | 1,6 | 1,7 | 1,8 |
| Nominal size of metal screen mm² | 16 | 16 | 25 | 35 | 50 | 70 | 70 | 95 | 120 | 150 |
| Nominal thickness of oversheath mm | 1,8 | 1,8 | 1,8 | 2,0 | 2,1 | 2,2 | 2,4 | 2,5 | 2,7 | 2,9 |
| **Fire load** | | | | | | | | | | |
| Fire load MJ/m | 7,806 | 6,647 | 8,075 | 10,479 | 12,332 | 15,003 | 18,745 | 22,993 | 28,411 | 31,995 |
| Fire load kWh/m | 2,168 | 1,846 | 2,243 | 2,911 | 3,425 | 4,168 | 5,207 | 6,387 | 7,892 | 8,888 |
| **Maximum forces during installation when pulling by** | | | | | | | | | | |
| Max. pulling force by pulling-eye kN | 3,8 | 5,3 | 7,5 | 10,5 | 14,3 | 18,0 | 20,0 | 20,0 | 20,0 | 20,0 |
| Max. pulling force by pulling-stocking kN | 1,1 | 1,6 | 2,3 | 3,2 | 4,3 | 5,4 | 6,8 | 8,3 | 8,5 | 8,5 |
| **Minimum bending radii** | | | | | | | | | | |
| Minimum bending radius, handling mm | 305 | 277 | 316 | 354 | 403 | 440 | 492 | 544 | 635 | 666 |
| Minimum bending radius, final bending mm | 213 | 194 | 221 | 248 | 282 | 308 | 344 | 381 | 444 | 466 |
| **Minimum bending radii** | | | | | | | | | | |
| During handling and installation, cable cm | 30 | 28 | 32 | 35 | 40 | 44 | 49 | 54 | 63 | 67 |
| In final installation, cable cm | 21 | 19 | 22 | 25 | 28 | 31 | 34 | 38 | 44 | 47 |
| **Minimum bending radii** | | | | | | | | | | |
| During handling and installation, cable m | 0,30 | 0,28 | 0,32 | 0,35 | 0,40 | 0,44 | 0,49 | 0,54 | 0,64 | 0,67 |
| In final installation, cable m | 0,21 | 0,19 | 0,22 | 0,25 | 0,28 | 0,31 | 0,34 | 0,38 | 0,44 | 0,47 |
| **DC resistance** | | | | | | | | | | |
| Max. DC resistance of conductor at 20 °C Ω/km | 0,727 | 0,524 | 0,387 | 0,268 | 0,193 | 0,153 | 0,124 | 0,0991 | 0,0754 | 0,0601 |
| Maximum DC resistance at 20 °C, metal screen Ω/km | 1,15 | 1,15 | 0,727 | 0,524 | 0,387 | 0,268 | 0,268 | 0,193 | 0,153 | 0,0601 |

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| Technical information | 3x25/16 | 3x35/16 | 3x50/25 | 3x70/35 | 3x95/50 | 3x120/70 | 3x150/70 | 3x185/95 | 3x240/120 | 3x300/150 |
|---|---|---|---|---|---|---|---|---|---|---|
| **Current ratings** | | | | | | | | | | |
| **Cables in air (25 °C)** | | | | | | | | | | |
| two loaded conductor, conductor 70 °C A | 124 | 154 | 187 | 241 | 293 | 341 | 394 | 451 | 535 | 617 |
| three loaded conductor, conductor 70 °C A | 105 | 131 | 159 | 204 | 248 | 287 | 332 | 379 | 447 | 517 |
| two loaded conductor, conductor 90 °C A | 155 | 192 | 234 | 301 | 366 | 426 | 492 | 564 | 667 | 771 |
| three loaded conductor, conductor 90 °C A | 132 | 164 | 200 | 256 | 310 | 360 | 415 | 474 | 560 | 646 |
| **Cables in air (30 °C)** | | | | | | | | | | |
| two loaded conductor, conductor 70 °C A | 119 | 148 | 180 | 232 | 282 | 328 | 379 | 434 | 514 | 593 |
| three loaded conductor, conductor 70 °C A | 101 | 126 | 153 | 196 | 238 | 276 | 319 | 364 | 430 | 497 |
| two loaded conductor, conductor 90 °C A | 149 | 185 | 225 | 289 | 352 | 410 | 473 | 542 | 641 | 741 |
| three loaded conductor, conductor 90 °C A | 127 | 158 | 192 | 246 | 298 | 346 | 399 | 456 | 538 | 621 |
| **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 | 130 | 160 | 190 | 240 | 285 | 325 | 370 | 420 | 480 | 550 |
| **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 | 107 | 129 | 153 | 188 | 226 | 257 | 287 | 324 | 375 | 419 |
| **Maximum thermal short circuit current during 1 s** | | | | | | | | | | |
| Phase (initial 65 °C, final 250 °C) kA | 3,9 | 5,5 | 7,8 | 10,9 | 14,9 | 18,8 | 23,5 | 28,9 | 37,5 | 46,9 |
| Phase (initial 90 °C, final 250 °C) kA | 3,6 | 5,0 | 7,2 | 10,0 | 13,6 | 17,2 | 21,5 | 26,5 | 34,3 | 43,1 |
| Metal screen (initial 80 °C, final 250 °C) kA | 2,4 | 2,4 | 3,7 | 5,2 | 7,4 | 10,4 | 10,4 | 14,1 | 17,8 | 22,2 |
| **Environmental information** | | | | | | | | | | |
| The product is a declared item in the Supply Chain Declaration Portal (or short ”SCDP”) for New Buildings generation 4 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| (A1-A3) GWP emission kgCO2e/km | 5133 | 5192 | 7956 | 11180 | 15244 | 19464 | 23519 | 29806 | 39107 | 48531 |
| GWP emissions calculation standard | EN15804:2012 + A2:2019 | EN15804:2012 + A2:2019 | EN15804:2012 + A2:2019 | EN15804:2012 + A2:2019 | EN15804:2012 + A2:2019 | EN15804:2012 + A2:2019 | EN15804:2012 + A2:2019 | EN15804:2012 + A2:2019 | EN15804:2012 + A2:2019 | EN15804:2012 + A2:2019 |

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| STANDARD PACKAGES | 3x25/16 | 3x35/16 | 3x50/25 | 3x70/35 | 3x95/50 | 3x120/70 | 3x150/70 | 3x185/95 | 3x240/120 | 3x300/150 |
|---|---|---|---|---|---|---|---|---|---|---|
| Product code | 1146231 | 1146232 | 1146233 | | | 1146236 | 1146237 | 1146238 | 1146239 | |
| GTIN code | 6410006023400 | 6410006023424 | 6410006023448 | | | 6410006023509 | 6410006023561 | 6410006023585 | 6410006023608 | |
| Package | 500 K11 | 500 K10 | 500 K12 | | | 500 K18 | 1000 K24 | 1000 K26 | 1000 K26 | |
| | | | | | | | | | | |
| Product code | 1146231 | 1146232 | 1146233 | | | 1146236 | 1146237 | 1146238 | 1146239 | |
| GTIN code | 6410006023417 | 6410006023431 | 6410006023455 | | | 6410006023516 | 6410006023523 | 6410006023578 | 6410006023592 | |
| Package | 1000 K16 | 1000 K16 | 1000 K18 | | | 1000 K22 | 500 K20 | 500 K22 | 500 K22 | |

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| Technical information | 4x10/10 | 4x16/16 | 4x25/16 | 4x35/16 | 4x50/25 | 4x70/35 | 4x95/50 | 4x120/70 | 4x150/70 | 4x185/95 |
|---|---|---|---|---|---|---|---|---|---|---|
| **Product code** | **1146309** | **1146310** | **1146311** | **1146312** | **1146313** | **1146314** | **1146315** | **1146316** | **1146317** | **1146318** |
| Nominal cable diameter mm | 20 | 23 | 28 | 26 | 30 | 34 | 38 | 42 | 46 | 51 |
| Nominal cable weight kg/km | 797 | 1133 | 1594 | 1684 | 2312 | 3199 | 4319 | 5491 | 6615 | 8366 |
| Nominal weight of copper kg/km | 438 | 699 | 1038 | 1359 | 1914 | 2685 | 3726 | 4762 | 5759 | 7291 |
| Nominal Insulation thicness mm | 0,7 | 0,7 | 0,9 | 0,9 | 1,0 | 1,1 | 1,1 | 1,2 | 1,4 | 1,6 |
| Nominal size of metal screen mm² | 10 | 16 | 16 | 16 | 25 | 35 | 50 | 70 | 70 | 95 |
| Nominal thickness of oversheath mm | 1,8 | 1,8 | 1,8 | 1,8 | 1,9 | 2,1 | 2,2 | 2,4 | 2,5 | 2,7 |
| **Fire load** | | | | | | | | | | |
| Fire load MJ/m | 5,946 | 7,170 | 9,186 | 8,294 | 10,298 | 13,341 | 15,362 | 19,066 | 23,314 | 29,361 |
| Fire load kWh/m | 1,652 | 1,992 | 2,552 | 2,304 | 2,861 | 3,706 | 4,267 | 5,296 | 6,476 | 8,156 |
| **Maximum forces during installation when pulling by** | | | | | | | | | | |
| Max. pulling force by pulling-eye kN | 2,0 | 3,2 | 5,0 | 7,0 | 10,0 | 14,0 | 19,0 | 20,0 | 20,0 | 20,0 |
| Max. pulling force by pulling-stocking kN | 0,6 | 1,0 | 1,5 | 2,1 | 3,0 | 4,2 | 5,7 | 7,2 | 8,5 | 8,5 |
| **Minimum bending radii** | | | | | | | | | | |
| Minimum bending radius, handling mm | 244 | 278 | 330 | 312 | 355 | 409 | 450 | 501 | 546 | 612 |
| Minimum bending radius, final bending mm | 171 | 194 | 231 | 219 | 248 | 287 | 315 | 351 | 382 | 429 |
| **Minimum bending radii** | | | | | | | | | | |
| During handling and installation, cable cm | 24 | 28 | 33 | 31 | 35 | 41 | 45 | 50 | 55 | 61 |
| In final installation, cable cm | 17 | 19 | 23 | 22 | 25 | 29 | 32 | 35 | 38 | 43 |
| **Minimum bending radii** | | | | | | | | | | |
| During handling and installation, cable m | 0,24 | 0,28 | 0,33 | 0,31 | 0,35 | 0,41 | 0,45 | 0,50 | 0,55 | 0,61 |
| In final installation, cable m | 0,17 | 0,19 | 0,23 | 0,22 | 0,25 | 0,29 | 0,32 | 0,35 | 0,38 | 0,43 |
| **DC resistance** | | | | | | | | | | |
| Max. DC resistance of conductor at 20 °C Ω/km | 1,83 | 1,15 | 0,727 | 0,524 | 0,387 | 0,268 | 0,193 | 0,153 | 0,124 | 0,0991 |
| Maximum DC resistance at 20 °C, metal screen Ω/km | 1,83 | 1,15 | 1,15 | 1,15 | 0,727 | 0,524 | 0,387 | 0,268 | 0,268 | 0,193 |

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| Technical information | 4x10/10 | 4x16/16 | 4x25/16 | 4x35/16 | 4x50/25 | 4x70/35 | 4x95/50 | 4x120/70 | 4x150/70 | 4x185/95 |
|---|---|---|---|---|---|---|---|---|---|---|
| **Current ratings** | | | | | | | | | | |
| **Cables in air (25 °C)** | | | | | | | | | | |
| two loaded conductor, conductor 70 °C A | 73 | 98 | 124 | 154 | 187 | 241 | 293 | 341 | 394 | 451 |
| three loaded conductor, conductor 70 °C A | 62 | 83 | 105 | 131 | 159 | 204 | 248 | 287 | 332 | 379 |
| two loaded conductor, conductor 90 °C A | 89 | 120 | 155 | 192 | 234 | 301 | 366 | 426 | 492 | 564 |
| three loaded conductor, conductor 90 °C A | 78 | 104 | 132 | 164 | 200 | 256 | 310 | 360 | 415 | 474 |
| **Cables in air (30 °C)** | | | | | | | | | | |
| two loaded conductor, conductor 70 °C A | 70 | 94 | 119 | 148 | 180 | 232 | 282 | 328 | 379 | 434 |
| three loaded conductor, conductor 70 °C A | 60 | 80 | 101 | 126 | 153 | 196 | 238 | 276 | 319 | 364 |
| two loaded conductor, conductor 90 °C A | 86 | 115 | 149 | 185 | 225 | 289 | 352 | 410 | 473 | 542 |
| three loaded conductor, conductor 90 °C A | 75 | 100 | 127 | 158 | 192 | 246 | 298 | 346 | 399 | 456 |
| **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 | 77 | 100 | 130 | 160 | 190 | 240 | 285 | 325 | 370 | 420 |
| **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 | 65 | 84 | 107 | 129 | 153 | 188 | 226 | 257 | 287 | 324 |
| **Maximum thermal short circuit current during 1 s** | | | | | | | | | | |
| Phase (initial 65 °C, final 250 °C) kA | 1,6 | 2,5 | 3,9 | 5,5 | 7,8 | 10,9 | 14,9 | 18,8 | 23,5 | 28,9 |
| Phase (initial 90 °C, final 250 °C) kA | 1,4 | 2,3 | 3,6 | 5,0 | 7,2 | 10,0 | 13,6 | 17,2 | 21,5 | 26,5 |
| Metal screen (initial 80 °C, final 250 °C) kA | 1,5 | 2,4 | 2,4 | 2,4 | 3,7 | 5,2 | 7,4 | 10,4 | 10,4 | 14,1 |
| **Environmental information** | | | | | | | | | | |
| The product is a declared item in the Supply Chain Declaration Portal (or short ”SCDP”) for New Buildings generation 4 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| (A1-A3) GWP emission kgCO2e/km | 3033 | 4383 | 6284 | 7349 | 10255 | 14357 | 19536 | 24958 | 30155 | 38119 |
| GWP emissions calculation standard | EN15804:2012 + A2:2019 | EN15804:2012 + A2:2019 | EN15804:2012 + A2:2019 | EN15804:2012 + A2:2019 | EN15804:2012 + A2:2019 | EN15804:2012 + A2:2019 | EN15804:2012 + A2:2019 | EN15804:2012 + A2:2019 | EN15804:2012 + A2:2019 | EN15804:2012 + A2:2019 |

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| STANDARD PACKAGES | 4x10/10 | 4x16/16 | 4x25/16 | 4x35/16 | 4x50/25 | 4x70/35 | 4x95/50 | 4x120/70 | 4x150/70 | 4x185/95 |
|---|---|---|---|---|---|---|---|---|---|---|
| Product code | 1146309 | 1146310 | 1146311 | 1146312 | 1146313 | 1146314 | 1146315 | 1146316 | 1146317 | 1146318 |
| GTIN code | 6410006023226 | 6410006023271 | 6410006023264 | 6438176219775 | 6410006023677 | 6410006023318 | 6410006023325 | 6410006023332 | 6410006023714 | 6410006023356 |
| Package | 500 K11 | 1000 K16 | 500 K12 | 500 K12 | 1000 K18 | 1000 K20 | 500 K18 | 500 K20 | 1000 K26 | 500 K22 |
| | | | | | | | | | | |
| Product code | 1146309 | 1146310 | 1146311 | 1146312 | 1146313 | 1146314 | 1146315 | | 1146317 | |
| GTIN code | 6410006023233 | 6410006023240 | 6410006023288 | 6410006023295 | 6410006023660 | 6438176219812 | 6410006023691 | | 6410006023707 | |
| Package | 1000 K14 | 500 K11 | 1000 K18 | 1000 K16 | 500 K16 | 500 K16 | 1000 K22 | | 500 K20 | |

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| Technical information | 4x240/120 | 4x300/150 |
|---|---|---|
| **Product code** | **1146319** | **1146320** |
| Nominal cable diameter mm | 57 | 61 |
| Nominal cable weight kg/km | 10885 | 13514 |
| Nominal weight of copper kg/km | 9601 | 12051 |
| Nominal Insulation thicness mm | 1,7 | 1,8 |
| Nominal size of metal screen mm² | 120 | 150 |
| Nominal thickness of oversheath mm | 2,9 | 3,1 |
| **Fire load** | | |
| Fire load MJ/m | 35,074 | 40,383 |
| Fire load kWh/m | 9,743 | 11,217 |
| **Maximum forces during installation when pulling by** | | |
| Max. pulling force by pulling-eye kN | 20,0 | 20,0 |
| Max. pulling force by pulling-stocking kN | 8,5 | 8,5 |
| **Minimum bending radii** | | |
| Minimum bending radius, handling mm | 679 | 734 |
| Minimum bending radius, final bending mm | 476 | 514 |
| **Minimum bending radii** | | |
| During handling and installation, cable cm | 68 | 73 |
| In final installation, cable cm | 48 | 51 |
| **Minimum bending radii** | | |
| During handling and installation, cable m | 0,68 | 0,73 |
| In final installation, cable m | 0,48 | 0,51 |
| **DC resistance** | | |
| Max. DC resistance of conductor at 20 °C Ω/km | 0,0754 | 0,0601 |
| Maximum DC resistance at 20 °C, metal screen Ω/km | 0,153 | 0,124 |

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| Technical information | 4x240/120 | 4x300/150 |
|---|---|---|
| **Current ratings** | | |
| **Cables in air (25 °C)** | | |
| two loaded conductor, conductor 70 °C A | 535 | 617 |
| three loaded conductor, conductor 70 °C A | 447 | 517 |
| two loaded conductor, conductor 90 °C A | 667 | 771 |
| three loaded conductor, conductor 90 °C A | 560 | 646 |
| **Cables in air (30 °C)** | | |
| two loaded conductor, conductor 70 °C A | 514 | 593 |
| three loaded conductor, conductor 70 °C A | 430 | 497 |
| two loaded conductor, conductor 90 °C A | 641 | 741 |
| three loaded conductor, conductor 90 °C A | 538 | 621 |
| **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 | 480 | 550 |
| **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 | 375 | 419 |
| **Maximum thermal short circuit current during 1 s** | | |
| Phase (initial 65 °C, final 250 °C) kA | 37,5 | 46,9 |
| Phase (initial 90 °C, final 250 °C) kA | 34,3 | 43,1 |
| Metal screen (initial 80 °C, final 250 °C) kA | 17,8 | 22,2 |
| **Environmental information** | | |
| The product is a declared item in the Supply Chain Declaration Portal (or short ”SCDP”) for New Buildings generation 4 | Yes | |
| (A1-A3) GWP emission kgCO2e/km | | |
| GWP emissions calculation standard | 49900<br>EN15804:2012 + A2:2019 | 62139<br>EN15804:2012 + A2:2019 |

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MADE IN FINLAND

| STANDARD PACKAGES | 4x240/120 | 4x300/150 |
|---|---|---|
| Product code | 1146319 | |
| GTIN code | 6410006023363 | |
| Package | 400 K26 | |
| | | |
| Product code | 1146319 | |
| GTIN code | 6438176011973 | |
| Package | 500 K26 | |

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