

MMO

Control cable

450/750 V

Application

Control cable for fixed installations indoors and outdoors. Not to be laid in soil nor directly in cast concrete. The conductor insulation must be protected against UV-radiation. Installations must be in accordance with national regulations and rules of installations. The cable is flame-retardant according to CPR-class Eca.



Design

| | |
|----------------------------|---|
| Standards | SFS 3714, HD 627 4 D 1 |
| Reaction to fire | Eca; EN 13501-6, EN 50575:2014+A1:2016 |
| Conductor | Circular solid copper, EN/IEC 60228 class 1 |
| Insulation | PVC-compound |
| Core Identification | Black, with white numbers |
| Inner covering | Plastic tape |
| Oversheath | UV-protected PVC-compound , White |

Temperature limits

| | |
|---|-----|
| Max. conductor temperature °C | 70 |
| Max. cond. temp. short circuit max. 5 s °C | 160 |
| Min. cable temperature during operation °C | -40 |
| Min. cable temperature during handling °C | -15 |
| Min. cable temperature during transport °C | -40 |

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| Technical information | 7x1,5 | 12x1,5 | 19x1,5 | 27x1,5 | 37x1,5 | 7x2,5 | 12x2,5 | 19x2,5 | 27x2,5 | 37x2,5 |
|---|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Product code | 1103207 | 1103212 | 1103219 | 1103227 | 1103237 | 1103057 | 1103262 | 1103269 | 1103277 | 1103287 |
| Nominal cable diameter mm | 11 | 15 | 17 | 20 | 24 | 13 | 17 | 20 | 24 | 27 |
| Nominal cable weight kg/km | 203 | 325 | 476 | 663 | 914 | 292 | 473 | 719 | 1006 | 1360 |
| Nominal weight of copper kg/km | 91 | 158 | 247 | 352 | 499 | 149 | 257 | 410 | 583 | 798 |
| Nominal diameter of conductor mm | 1,3 | 1,3 | 1,3 | 1,3 | 1,3 | 1,7 | 1,7 | 1,7 | 1,7 | 1,7 |
| Nominal Insulation thickness mm | 0,7 | 0,7 | 0,7 | 0,7 | 0,7 | 0,8 | 0,8 | 0,8 | 0,8 | 0,8 |
| Nominal thickness of oversheath mm | 1,5 | 1,5 | 1,5 | 1,6 | 1,7 | 1,5 | 1,5 | 1,6 | 1,7 | 1,9 |
| Fire load | | | | | | | | | | |
| Fire load MJ/m | 2,263 | 3,377 | 4,608 | 6,280 | 8,369 | 2,885 | 4,357 | 6,231 | 8,511 | 11,294 |
| Fire load kWh/m | 0,629 | 0,938 | 1,280 | 1,744 | 2,325 | 0,801 | 1,210 | 1,731 | 2,364 | 3,137 |
| Maximum forces during installation when pulling by | | | | | | | | | | |
| Max. pulling force by pulling-eye kN | 0,5 | 0,9 | 1,4 | 2,0 | 2,7 | 0,8 | 1,5 | 2,3 | 3,3 | 4,6 |
| Minimum bending radii | | | | | | | | | | |
| Minimum bending radius, handling mm | 114 | 145 | 169 | 203 | 238 | 131 | 170 | 200 | 241 | 273 |
| Minimum bending radius, final bending mm | 91 | 116 | 135 | 162 | 190 | 105 | 136 | 160 | 193 | 219 |
| Minimum bending radii | | | | | | | | | | |
| During handling and installation, cable cm | 11 | 15 | 17 | 20 | 24 | 13 | 17 | 20 | 24 | 27 |
| In final installation, cable cm | 9 | 12 | 13 | 16 | 19 | 10 | 14 | 16 | 19 | 22 |
| DC resistance | | | | | | | | | | |
| Max. DC resistance of conductor at 20 °C Ω/km | 12,1 | 12,1 | 12,1 | 12,1 | 12,1 | 7,41 | 7,41 | 7,41 | 7,41 | 7,41 |
| Electrical values | | | | | | | | | | |
| Minimum insulation resistance MΩ × km | 0,011 | 0,011 | 0,011 | 0,011 | 0,011 | 0,01 | 0,01 | 0,01 | 0,01 | 0,01 |

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| STANDARD PACKAGES | 7x1,5 | 12x1,5 | 19x1,5 | 27x1,5 | 37x1,5 | 7x2,5 | 12x2,5 | 19x2,5 | 27x2,5 | 37x2,5 |
|-------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Product code | 1103207 | 1103212 | 1103219 | 1103227 | 1103237 | 1103057 | 1103262 | 1103269 | 1103277 | 1103287 |
| GTIN code | 6410004128220 | 6410004128237 | 6410004128244 | 6410004128251 | 6410004128268 | 6410004128329 | 6410004128336 | 6410004128176 | 6410004128374 | 6410004128381 |
| Package | 1000 K9 | 1000 K10 | 1000 K11 | 1000 K14 | 500 K12 | 1000 K10 | 1000 K11 | 1000 K14 | 1000 K16 | 1000 K18 |
| Product code | 1103207 | 1103212 | 1103219 | 1103227 | 1103237 | 1103057 | | 1103269 | 1103277 | 1103287 |
| GTIN code | 6410004128138 | 6410004128275 | 6410004128145 | 6410004128152 | 6410004128282 | 6410004128169 | | 6410004128343 | 6410004128350 | 6410004128367 |
| Package | 500 K7 | 500 K8 | 500 K9 | 500 K10 | 1000 K16 | 500 K7 | | 500 K10 | 500 K12 | 500 K12 |
| Product code | 1103207 | 1103212 | | | | | | | | |
| GTIN code | 6410004128091 | 6410004128114 | | | | | | | | |
| Package | 100 bundle | 100 bundle | | | | | | | | |
| Product code | 1103207 | | | | | | | | | |
| GTIN code | 6410004128121 | | | | | | | | | |
| Package | 200 spool | | | | | | | | | |
| Product code | 1103207 | | | | | | | | | |
| GTIN code | 6438176304105 | | | | | | | | | |
| Package | 150 spool | | | | | | | | | |
| Product code | 1103207 | | | | | | | | | |
| GTIN code | 6410004128107 | | | | | | | | | |
| Package | 50 bundle | | | | | | | | | |