ttcables
ELECTRIC CABLE WORKS


# ARG16M16

Power cable 0,6/1 kV with Al conductors, XLPE insulated and HFFR sheathed

## APPLICATION

In earth, ducts, on support brackets, in dry and wet conditions etc., where one does not expect mechanical damages and the cables are not exposed to the mechanical tensile strain. In urban networks, industrial plants, electric power plants and other electricity consumers and for connection of control devices in industry, traffic etc., where fire prevention safety measures are requested, for eleveted electricity and thermic strains.

## TECHNICAL CHARACTERISTICS

**CPR class:** Cca- s1, d1, a1
**Test voltage:** 4 Kv
**Rated voltage:** 0,6/1 kV
**Bending radius (min):** single-core- 6D
**Min. laying temperature:**-15°C
**Max. conductor temperature:** 90°C
**Max. short-circuit temperature:** 250°C

## CONSTRUCTION

**Conductors:** Al, class 2 according to EN 60228
**Insulation:** XLPE compound
**Bedding:** Extruded elastomere or plastomere LS0H compound
**Sheath:** LS0H compound M16 quality, green

## STANDARD

CEI 20-13, IEC 60502-1,
UNE 21123

## CERTIFICATION

CE
RoHS compliant
REACH
IEC International Electrotechnical Commission
CPR

## CORE IDENTIFICATION

According to HD 308 S2

Outer Sheath Colour:
● Green
*Other colours available on request*

| NOMINAL CROSS-SECTION | MAX. RESISTANCE AT 20°c | AVERAGE INSULATION THICKNESS | AVERAGE SHEATH THICKNESS | CURRENT CAPACITY IN AIR, 30°C | CURRENT CAPACITY IN PIPE IN AIR, 30°C | CURRENT CAPACITY BURRIED, 20°C | | CURRENT CAPACITY BURRIED PIPE, 20°C | | OUTER DIAM. (APPROX.) | CABLE WEIGHT (APPROX.) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| mm² | Ω/km | mm | mm | A | A | A | A | A | A | mm | kg/km |
| | | | | | | K=1 | K=1,5 | K=1 | K=1,5 | | |
| 1x16 | 1,910 | 0,7 | 1,4 | 70 | 64 | 98 | 89 | 75 | 70 | 9,1 | 109 |
| 1x25 | 1,200 | 0,9 | 1,4 | 102 | 88 | 119 | 110 | 95 | 88 | 10,7 | 151 |
| 1x35 | 0,868 | 0,9 | 1,4 | 136 | 110 | 141 | 131 | 115 | 106 | 11,7 | 185 |
| 1x50 | 0,641 | 1,0 | 1,4 | 164 | 131 | 167 | 154 | 134 | 124 | 13,0 | 230 |
| 1x70 | 0,443 | 1,1 | 1,4 | 218 | 175 | 204 | 189 | 173 | 160 | 14,9 | 315 |
| 1x95 | 0,320 | 1,1 | 1,5 | 261 | 209 | 245 | 226 | 196 | 181 | 16,6 | 405 |
| 1x120 | 0,253 | 1,2 | 1,5 | 310 | 250 | 277 | 256 | 238 | 220 | 18,5 | 510 |
| 1x150 | 0,206 | 1,4 | 1,6 | 350 | 280 | 313 | 289 | 250 | 231 | 20,4 | 620 |
| 1x185 | 0,164 | 1,6 | 1,6 | 415 | 334 | 350 | 324 | 300 | 278 | 22,6 | 750 |
| 1x240 | 0,125 | 1,7 | 1,7 | 490 | 392 | 413 | 382 | 331 | 306 | 25,2 | 955 |
| 1x300 | 0,100 | 1,8 | 1,8 | 567 | - | 454 | 420 | 400 | 370 | 27,9 | 1150 |
| 1x400 | 0,0778 | 2,0 | 1,9 | 665 | - | 5112 | 474 | 450 | 417 | 31,4 | 1520 |
| 1x500 | 0,0605 | 2,2 | 2,0 | 765 | - | 578 | 535 | 505 | 4648 | 34,9 | 1850 |
| 1x630 | 0,0469 | 2,4 | 2,2 | 880 | - | 646 | 598 | 580 | 537 | 39,8 | 2415 |

Permissible current rating values are according to:
- three-phase circuit
- laying depth of 0,8 m for buried cables

K = 1 - resistivity of the ground equal to 1,0 K·m/W
K = 1,5 - resistivity of the ground equal to 1,5 K·m/W