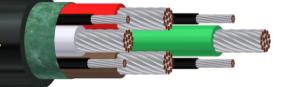
OnGc-G FLEX 0,6/1 kV

ROGUM KABLE SP. Z O.O.

connections

Minimum bending radius



Mining power cables for mobile and portable power devices, Unshielded. Rated voltage 0,6/1 kV

| According to | ZN-FKR-019:2007 | /A1:2015; PN-EN 60332-1-2:2010/A1:2016-02 | |
|---|--|---|--|
| CONSTRUCTION | | | |
| Conductor | Annealed multi-stranded tinned copper class 5 flexible conductor according to PN-EN 60228 | | |
| Insulation | Polymer material with properties corresponding to the heat resistant IEP type material according to PN-89/E-29100 | | |
| Sheath | Polymer material with flame retardant and oil-proof properties corresponding to material type ON4 according to PN-E-90140:1986 | | |
| Protective conductor divided into 3 or 4 separate cores | Each part of the protective core is covered with conductive polymer material with properties corresponding to material type GP according to PN-89/E-29100 | | |
| Cable core | 4-cores: 3 insulated power cores with protective conductor divided into 3 parts placed between power cores and fillers between cores, all cores stranded around central filler piece. 5-cores: 3 insulated power cores with protective conductor divided into 4 parts placed between power cores and fillers between cores, all cores stranded around central filler piece. 7-cores: 3 insulated power cores with 3 auxiliary cores and protective conductor divided into 4 parts placed between power cores, all cores stranded around central filler piece. 7-cores: 3 insulated power cores, all cores stranded around central filler piece. Every type of cable core wrapped with a layer of conductive tape | | |
| Sheath colour | Black | | |
| Insulation colour | 4-cores: power cores: green, red, natural (white); protective conductor: black corrugated; 5-cores: power cores: green, red, natural (white); protective conductor: black corrugated; auxiliary core: brown; 7-cores: power cores: green, red, natural (white); protective conductor: black corrugated; auxiliary cores: green, red, natural (white); protective conductor: black corrugated; | | |
| CHARACTERISTIC | | | |
| Rated voltage Uo/U | | 0,6/1 kV | |
| Test voltage for power cores | | 3,2 kV | |
| Test voltage for auxiliary cores | | 2 kV | |
| Maximum core temperature during operation | | +90 °C | |
| Maximum core temperature during short circuit | | +250 °C | |
| Ambient temperature range for permanently installed cables | | -40°C to +90°C | |
| Ambient temperature range for mobile | | -25°C to +80°C | |

Photos, drawings, specifications and information contained in the product card are purely indicative and do not constitute a guarantee or grounds for legal liability by Rogum Kable Sp. z.o.o

Fixed installation - 6D; Mobile connections - 10D



| Cable name explanation | OnGc-G FLEX – Sheathed power cable (O) with flexible multi-wire tinned copper conductor, insulation made of elastomeric heat-resistant material (Gc), sheath made of flame retardant material (n). Cable designed for mining application (G) with increased flexibility (FLEX) |
|---------------------------|---|
| Cable marking | OnGc-G 0,6/1kV 3x70+3x25/3 mm ² ROGUM KABLE Sp. z o.o. + cable ID + meter mark + year of production Each cable has a legible and permanent marking repeated cyclically, printed or embossed (for cables with power conductors size equal or greater than 25 mm ²) longitudinally on outer sheath including in particular: manufacturer's name, cable / wire type, cross-section, number of wires, rated voltage, identifier, year of production and the length of the delivered section |
| | |

APPLICATION

Cables designed for powering fixed and portable power devices operating in open pit, borehole and underground mines outside of the explosion hazard zones

CERTIFICATES AND APPROVALS

EMAG certificate (Łukasiewicz Research Network - Institute of Innovative Technologies)

ADDITIONAL INFORMATION

On request there is a possibility:

• to change the color of the sheath

In all cases concerning detailed technical data please contact our Client Advisor: <u>doradztwotechniczne@rogum.com.pl</u>

| CARD NUMBER | 9 | EDITION | 21.03.2023 |
|-------------|---|---------|------------|

| CABLE CONSTRUCTION | | | | | |
|--------------------------|---|---------------------------|---------------------------|--|--|
| Total number of cores | Number of cores and cross- sectional area Power cores + Protective conductor + Auxiliary cores | Maximum cable diameter | Approximated cable weight | | |
| n | n x mm² | mm | kg/km | | |
| | 3x16+3x10/3 | 27,5 | 1000 | | |
| | 3x25+3x16/3 32,0 | | 1400 | | |
| | 3x25+3x25/3 | 32,0 | 1400 | | |
| | 3x35+3x16/3 | 36,2 | 1800 | | |
| 4 | 3x50+3x16/3 | 41,5 | 2400 | | |
| | 3x50+3x25/3 | 41,5 | 2400 | | |
| | 3x70+3x25/3 | 45,5 | 3050 | | |
| | 3x95+3x35/3 | 51,8 | 4150 | | |
| | 3x120+3x35/3 | 58,8 | 4900 | | |
| | 3x6+4x6/4+6 | 24,5 | 650 | | |
| | 3x10+4x10/4+10 | 28,5 | 950 | | |
| | 3x16+4x10/4+16 | 29,5 | 1100 | | |
| 5 | 3x16+4x16/4+16 | 29,5 | 1250 | | |
| | 3x25+4x16/4+25 | 34,5 | 1610 | | |
| | 3x35+4x16/4+35 | 39,3 | 2200 | | |
| | 3x50+4x25/4+50 | 45,2 | 3100 | | |
| 7 | 3x16+4x10/4+3x2,5 | 29,5 | 1010 | | |
| | 3x25+4x16/4+3x2,5 | 34,8 | 1500 | | |
| | 3x35+4x16/4+3x2,5 | 39,3 | 2000 | | |
| | 3x50+4x25/4+3x4 | 45,2 | 2800 | | |
| | 3x70+4x25/4+3x4 | 49,6 | 3500 | | |
| | 3x95+4x35/4+3x4 | 56,6 | 4600 | | |
| | 3x120+4x35/4+3x4 | 64,4 | 5500 | | |

| PARAMETERS | | | | | | |
|--|--|---|--------------------|--------------------------|----------------------------|--|
| Nominal cross- section of the power conductor | Highest core resistance at 20 °C | Current carrying capacity at ambient temperature at 25 °C | Unit inductance | Unit inductive reactance | Unit capacity to ground | |
| mm² | Ω/km | А | mH/km | Ω/km | μF/km | |
| 16 | 1,24 | 118 | 0,28138 | 0,08835 | 0,29776 | |
| 25 | 0,795 | 152 | 0,26273 | 0,08250 | 0,34561 | |
| 35 | 0,565 | 187 | 0,25458 | 0,07994 | 0,36863 | |
| 50 | 0,393 | 233 | 0,23659 | 0,07429 | 0,41712 | |
| 70 | 0,277 | 288 | 0,24011 | 0,07540 | 0,46348 | |
| 95 | 0,210 | 345 | 0,25111 | 0,07885 | 0,47345 | |
| 120 | 0,164 | 400 | 0,24211 | 0,07602 | 0,48432 | |