

FG16OR16AR16 ENI – 0,6/1 kV

Flexible multipolar cable, G16 insulated, braid armour, R16 jacket Hydrocarbon resistant

EU Regulation N.305/2011 – Class Cca – s3, d1, a3 – DoP 21ICM012

CONSTRUCTION FEATURES

| | |
|----------------------|--|
| Conductor | Annealed red copper class 5 |
| Isolation | Compound based on ethylene-propylene HEPR rubber of G16 quality Bipolar: <i>Blue – Brown</i> ; Tripolar: <i>Brown – Black – Grey</i> or <i>Yellow/Green – Blue – Brown</i> ; |
| Color | Four-pole: <i>Blue – Brown – Black – Grey</i> or <i>Yellow/Green – Brown – Black – Grey</i> ; Five-pole: <i>Blue – Brown – Black – Grey – Black</i> or <i>Yellow/Green – Blue – Brown – Black – Grey</i> ; Numbered black without Yellow/Green Numbered black with Yellow/Green |
| Total cabling | Cores are cabled together with optimal length |
| Jacket | Thermoplastic compound made of R16 quality PVC. |
| Armor | Galvanized steel braid |
| Jacket | PVC thermoplastic compound R16 quality hydrocarbon resistant |
| Color | Black, Grey or Blue |
| Marking | I.C.M. S.R.L. – FG16OR16AR16 – 0,6/1 kV – formation – Cca – s3, d1, a3 – CE + meter marking |

ELECTRICAL CHARACTERISTICS

| | |
|---|----------|
| Nominal tension U_0/U | 0,6/1 kV |
|---|----------|

MECHANICAL CHARACTERISTICS

| | |
|--------------------------------------|--|
| Max operating temperature | 90 °C |
| Max short circuit temperature | 250 °C |
| Min operating temperature | -15 °C |
| Min laying temperature | 0 °C |
| Max traction effort | 50 N/mm ² by copper section |
| Min bending radius | 15 x \varnothing_{ext} |

REFERENCE STANDARDS AND DIRECTIVES

CEI 20-13; Directive 2014/35/UE; Directive 2011/65/UE

USE CONDITIONS

Cables for energy, signaling and controls, suitable for installation indoors, even in wet environments, and outdoors (protected from UV rays). Ideal for fixed installation on masonry and metal structures or suspended. The galvanized steel braided armor, offering particular mechanical protection and sturdiness, makes it particularly suitable for applications in industrial environments where heavy duty requirements are present. The cable, if stored/laid outdoors, must be protected from UV rays. Underground laying, direct or indirect, allowed.

I.C.M. INDUSTRIA CAVI MERLOTTI S.R.L.

| Formation | Max conductor resistance at 20°C | Nom. Under arming Ø | Nominal outer Ø | Nominal weight |
|------------------------------------|----------------------------------|---------------------|-----------------|----------------|
| N° cond x sect. (mm ²) | Ohm/km | mm | mm | Kg/km |
| 2X1,50 | 13,3 | 8,00 | 12,90 | 259 |
| 3X1,50 | 13,3 | 8,47 | 13,37 | 286 |
| 4X1,50 | 13,3 | 9,22 | 14,12 | 322 |
| 5X1,50 | 13,3 | 10,07 | 14,97 | 361 |
| 7X1,50 | 13,3 | 10,95 | 15,85 | 423 |
| 12X1,50 | 13,3 | 14,37 | 19,27 | 619 |
| 16X1,50 | 13,3 | 15,97 | 20,87 | 741 |
| 24X1,50 | 13,3 | 19,21 | 24,11 | 993 |
| 2X2,50 | 7,98 | 8,88 | 13,78 | 305 |
| 3X2,50 | 7,98 | 9,42 | 14,32 | 342 |
| 4X2,50 | 7,98 | 10,28 | 15,18 | 391 |
| 5X2,50 | 7,98 | 11,25 | 16,15 | 444 |
| 7X2,50 | 7,98 | 12,27 | 17,17 | 530 |
| 12X2,50 | 7,98 | 16,20 | 21,10 | 794 |
| 16X2,50 | 7,98 | 18,03 | 22,93 | 962 |
| 24X2,50 | 7,98 | 21,76 | 26,86 | 1327 |
| 2X4 | 4,95 | 9,92 | 14,82 | 368 |
| 3X4 | 4,95 | 10,55 | 15,45 | 420 |
| 4X4 | 4,95 | 11,54 | 16,44 | 487 |
| 5X4 | 4,95 | 12,66 | 17,56 | 558 |
| 2X6 | 3,30 | 10,94 | 15,84 | 436 |
| 3X6 | 3,30 | 11,65 | 16,55 | 505 |
| 4X6 | 3,30 | 12,77 | 17,67 | 592 |
| 5X6 | 3,30 | 14,03 | 18,93 | 697 |
| 2X10 | 1,91 | 12,92 | 17,82 | 587 |
| 3X10 | 1,91 | 13,79 | 18,69 | 698 |
| 4X10 | 1,91 | 15,16 | 20,06 | 832 |
| 5X10 | 1,91 | 16,71 | 21,61 | 1010 |
| 2X16 | 1,21 | 15,34 | 20,24 | 812 |
| 3X16 | 1,21 | 16,40 | 21,30 | 987 |
| 4X16 | 1,21 | 18,08 | 22,98 | 1195 |
| 5X16 | 1,21 | 19,97 | 24,87 | 1449 |