

FG16OR16AR16

0,6/1 kV

**MULTI-CORE ARMoured CABLE
FOR ENERGY, SIGNALLING AND CONTROL**



APPLICATION

Multi-core armoured cable for energy, signalling and control in industrial and residential environments, suitable for indoor laying, outdoor laying, and buried laying.

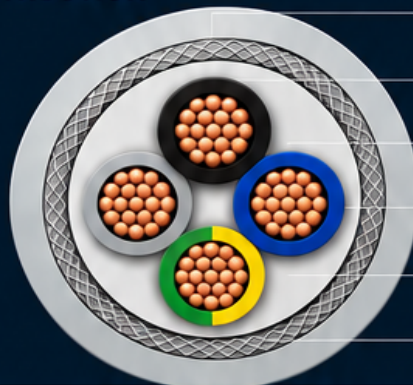
STANDARDS & COMPLIANCE

- CEI 20-29 EN IEC 60228
- CEI 20-11
- CEI 20-13 P.Q.A.
- EN 50399
- EN 50575:2014+A1:2016 (CPR)
- IEC 60332-1-2
- IEC 60332-3-24 (Cat C)
- IEC 60332-3-25 (Cat D)
- EN 60811-504+505+506
- HD 60364-5-54:2009 (AD7)
- CE

**CPR
Cca**

CPR CLASS:
Cca - s2, d0, a3

CONSTRUCTION



- 1 Flexible bare copper conductor Class 5 (CEI 20-29 / EN IEC 60228)
- 2 HEPR insulation (G16)
- 3 Inner sheath (PVC R16)
- 4 Galvanized steel braid armour (wire $\varnothing \geq 0,24$ mm)
- 5 Outer sheath (PVC R16)
- 6 Grey outer sheath (RAL 7035)

ELECTRICAL CHARACTERISTICS

Nominal voltage U_0	600 V
Nominal voltage U	1000 V
Sheath operating voltage	600/1000 V
Test voltage	4,0 kV 50 Hz (5 min) c-c 3,0 kV 50 Hz (1 min) c-a
Maximum voltage	U_0/U 1800/1800 V D.C. U_0/U 693/1200 V A.C.
Minimum insulation resistance	> 200 M Ω x km

TEMPERATURES

	Laying/handling temperature 0 °C
	Operating temperature range -15 °C to +90 °C
	Maximum conductor temperature +90 °C
	Maximum short-circuit temperature +250 °C

CABLE VARIANTS AND DIMENSIONS

Formation [n° x mm ²]	Twisted/stranded cores	Core colour and rules	Diameter under armour approx. (mm)	Outer diameter approx. (mm)	Weight approx. (Kg/Km)	Conductor resistance at 20 °C (Ω /km)
4,5 G 150,00	Cores stranded in concentric layers	Green/Yellow (sec. 95 mm ²) - Blue - Brown - Black - Grey	57,4	64,2	8373	0,129 0,206
4,5 G 95,00	Cores stranded in concentric layers	Green/Yellow (sec. 50 mm ²) - Blue - Brown - Black - Grey	45,2	51,7	6000	0,206 0,386

We are referring to standard CEI 64-8/5 (IEC/HD 60364) when considering larger cable cross-sections.

Table 54F of the above-mentioned standard specifies that, for conductor cross-sections greater than 35 mm², the protective conductor (PE) may have a cross-section equal to half that of the phase conductor. As a result, the cable configuration consists of four conductors with the required cross-section, while the earth conductor is sized at half the cross-section of the main conductors.

KEY FEATURES

- ✓ Flexible copper conductor (Class 5)
- ✓ HEPR insulation (G16)
- ✓ Armoured with galvanized steel braid
- ✓ PVC inner and outer sheath (R16)
- ✓ Fire performance Cca - s2, d0, a3
- ✓ Suitable for indoor, outdoor and buried laying
- ✓ Low temperature resistance
- ✓ High mechanical protection
- ✓ Reliable and durable

TECHNICAL REFERENCES

Conductor	CEI 20-29 EN IEC 60228
Insulation and sheath	CEI 20-11
Product standard	CEI 20-13 P.Q.A.
CPR reaction to fire	EN 50399 EN 50575:2014+A1:2016 Cca - s2, d0, a3
Flame retardant	IEC 60332-1-2 IEC 60332-3-24 (Cat C) IEC 60332-3-25 (Cat D)
Low temperature resistant	IEC 60811-504+505+506
Presence of water	HD 60364-5-54:2009 (AD7)
CE marking	Yes

LAYING CONDITIONS

-  Fixed laying
-  Indoor laying
-  Outdoor laying
-  Directly buried laying
-  Buried laying with protection
- Minimum bending radius:
14 x outer diameter

