



CABLES FOR CONTROL AND SIGNALLING CIRCUITS

FG16OM16-0,6/1 kV



Reaction to Fire CPR: C_{ca}-s1b,d1,a1

Multicore core flexible cables for signalling and control, G16 rubber insulated, LS0H thermoplastic sheathed, for fixed installation. Resistant to fire propagation with a low emission of smoke and toxic and corrosive gases when exposed to fire.

Rated voltage

U₀/U 0,6/1 kV

Maximum voltage

1,8 kV d.c. also to earth

Standards

CEI 20-13, CEI Unel 35328, CEI 20-11, EN 60228, CEI EN 50399, EN 60754-2, EN 61034-2, EN 60332-1-2 EN 13501-6, CEI EN 50575:2014+A1:2016

Regulation Construction Products

305/2011 EU.

European directives

2014/35/UE (LVD) - 2011/65/CE e 2015/863/EU (RoHS).

Conductor

Flexible annealed plain copper, class 5 (EN IEC 60228)

Insulation

Hard ethylene propylene rubber (HEPR) compound, of type G16, with reduced emission of halogen (corrosive gases) under fire conditions.

Colour of the cores: black numbered, with or without the green/yellow earth core

Sheath

Thermoplastic compound of type M16, having low emission of smoke and toxic and corrosive gases when exposed to fire. Colour: green.

Marking

Continuous marking on the sheath: « ICEL noSmoke FG16OM16-0,6/1 kV nominal cross section CEI 20-13 IEMMEQU EFP production date Made in Italy Cca-s1b,d1,a1 »;

under the sheath the IEMMEQU thread. Progressive meter marking.

Guidance for Use

For installation with fire risk area and where high presence of people is foreseen. For internal installations, also in wet locations and for external installations; for installation in surface mounted or on metallic structures; direct laying in earth permitted.

FG16OM16 cables are suitable for general applications in construction work subject to fire reaction requirements; for bundle installations with high fire risks, having fire reaction class Cca-s1b,d1,a1.

See also the guide to use standard CEI 20-67.

According to CPR EN 50399



Minimum internal bending radii 6 times the overall diameter



EN IEC 60332-1-2



low emission of smoke LS0H



Minimum installation and handling temp 0 °C



Low emission toxic and corrosive gas LS0H



Maximum operating temperature on the conductor



Lead Free Ecogamma



Maximum short circuit temperature (max 5 sec)



According to RoHS



Minimum usage temperature -15 °C



Maximum tensile stress 5 kg/mm²



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Number and nominal cross-sectional area of conductors mm ²	Maximum diameter of conductor wires mm	Thickness of insulation specified value mm	Indicative core diameter mm	Thickness of the sheath specified value mm	Maximum overall diameter mm	Indicative cable weight g/m	Maximum resistance of conductors at 20 °C ohm/km
5 G 1,5	0,26	0,7	2,9	1,8	14,4	230	13,3
7 G 1,5	0,26	0,7	2,9	1,8	15,4	275	13,3
10 G 1,5	0,26	0,7	2,9	1,8	18,7	365	13,4
12 G 1,5	0,26	0,7	2,9	1,8	19,3	410	13,4
16 G 1,5	0,26	0,7	2,9	1,8	21,1	510	13,4
19 G 1,5	0,26	0,7	2,9	1,8	22,1	580	13,4
24 G 1,5	0,26	0,7	2,9	1,8	25,4	700	13,5
7 G 2,5	0,26	0,7	3,4	1,8	16,8	310	7,98
10 G 2,5	0,26	0,7	3,4	1,8	20,6	395	8,06
12 G 2,5	0,26	0,7	3,4	1,8	21,3	445	8,06
16 G 2,5	0,26	0,7	3,4	1,8	23,3	545	8,06
19 G 2,5	0,26	0,7	3,4	1,8	24,5	615	8,06
24 G 2,5	0,26	0,7	3,4	1,8	28,3	750	8,10

If explicitly requested, and for agreed quantities, a version of the cables without the protective conductor (green/yellow) can be supplied