



FG16M16-0,6/1 kV



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

Single-core flexible power cable for fixed installation, G16 rubber insulated, LS0H thermoplastic sheathed. 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 35324, 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 core: black

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 FG16M16-0,6/1 kV nominal cross section CEI 20-13 IEMMEQU EFP production date Made in Italy C_{ca}-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.

FG16M16 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 C_{ca}-s1b,d1,a1.

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

According to CPR EN 50399



EN IEC 60332-1-2



Minimum installation and handling temp 0 °C



Maximum operating temperature on the conductor



Maximum short circuit temperature (max 5 sec)



Minimum usage temperature -15 °C



Maximum tensile stress 5 kg/mm²



Minimum internal bending radii 4 times the overall diameter



Low emission of smoke LS0H



Low emission toxic and corrosive gas LS0H



Lead Free Ecogamma



According to RoHS



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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
1 x 1,5	0,26	0,7	2,9	1,4	8,2	75	13,3
1 x 2,5	0,26	0,7	3,4	1,4	8,7	90	7,98
1 x 4	0,31	0,7	3,9	1,4	9,3	105	4,95
1 x 6	0,31	0,7	4,4	1,4	9,9	130	3,30
1 x 10	0,41	0,7	5,3	1,4	10,9	189	1,91
1 x 16	0,41	0,7	6,4	1,4	11,4	228	1,21
1 x 25	0,41	0,9	8,2	1,4	13,2	332	0,780
1 x 35	0,41	0,9	9,5	1,4	14,6	426	0,554
1 x 50	0,41	1,0	11,2	1,4	16,4	580	0,386
1 x 70	0,51	1,1	13,2	1,4	18,3	785	0,272
1 x 95	0,51	1,1	14,7	1,5	20,4	990	0,206
1 x 120	0,51	1,2	16,6	1,5	22,4	1250	0,161
1 x 150	0,51	1,4	18,6	1,6	24,8	1540	0,129
1 x 185	0,51	1,6	20,7	1,6	27,2	1900	0,106
1 x 240	0,51	1,7	23,5	1,7	30,4	2410	0,0801
1 x 300	0,51	1,8	26,1	1,8	33,0	3031	0,0641