



# FG17-450/750 V

## Reaction to Fire CPR: C<sub>ca</sub>-s1b,d1,a1

Single core flexible power cable with G17 rubber insulation, resistant to fire propagation, having low emission of smoke and toxic and corrosive gases when exposed to fire.

### Rated voltage

U<sub>o</sub>/U 450/750 V

### Standards

CEI 20-38, CEI Unel 35310, CEI 20-11, EN IEC 60228, EN IEC 60332-1-2, EN IEC 60754-2, EN 50267-2-1, EN IEC 61034-2, 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

Rubber compound of type G17, having low emission of smoke and toxic and corrosive gases when exposed to fire. Insulation colour:

blue, dark blue, light blue, black, brown, grey, green/yellow, red, white, turquoise, violet, orange, pink.

### Marking

Continuous marking on the insulation: « LOMBARDA noSmoke ECOGAMMA FG17-450/750 V nominal cross section mm<sup>2</sup> IEMMEQU EFP anno di fabbricazione Made in Italy Cca-s1b,d1,a1 ».

### Guidance for Use

For installation where high presence of people is foreseen and a low level of emission of smoke and corrosive gases are required in case of fire or burning. Installation in surface mounted or embedded conduits, or similar closed systems; suitable for fixed protected installation in, or on, lighting or control gear for voltages up to 1000 V a.c. or, up to 750 V d.c. to earth. Particular suitable for installation in bunches (according to the relative test conditions).

FG17-450/750 V 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.

Further instructions and guidance for use are given in the EN 50565 and CEI 20-40 standards..

According to CPR EN 50399



Minimum internal bending radii 4 ÷ 6 times the overall diameter



EN IEC 60332-1-2



low emission of smoke LS0H



Minimum installation and handling temp -15 °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 -30 °C



Maximum tensile stress 1,5 kg/mm<sup>2</sup>



# FG17-450/750 V



CE<sub>0051</sub> EAC

Nominal cross-sectional area of conductor mm <sup>2</sup>	Maximum diameter of conductor wires mm	Thickness of insulation specified value mm	Mean overall dimensions max mm	Indicative cable weight g/m	Maximum resistance of conductor at 20 °C Ohm/km
10	0,41	1,0	6,8	111	1,91
16	0,41	1,0	8,7	172	1,21
25	0,41	1,2	10,2	255	0,780
35	0,41	1,2	11,7	350	0,554
50	0,41	1,4	13,9	500	0,386
70	0,51	1,4	16,0	690	0,272
95	0,51	1,6	18,2	910	0,206
120	0,51	1,6	20,2	1140	0,161
150	0,51	1,8	22,5	1420	0,129
185	0,51	2,0	24,8	1730	0,106
240	0,51	2,2	28,4	2270	0,0801