



AFIAM PATRIOT

FS17-450/750 V



0051



Reaction to Fire CPR: C_{ca}-s3,d1,a3

Single core non-sheathed power cable with PVC insulation, flexible conductors for fixed wiring, coloured with skin coating technology. Resistant to fire propagation and with reduced emission of corrosive gases.

Rated voltage

Uo/U 450/750 V

Standards

EN 50525-1 p.q.a., EN 50525-2-31 p.q.a., CEI Unel 35752, EN IEC 60228, EN 60332-1-2, EN 50267-2-1, 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

PVC of type S17 with low emission of corrosive gases if involved in a 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: on one side « ICEL AFIAM FS17-450/750 V IEMMEQU EFP Cca-s3,d1,a3 », on the opposite side « nominal cross section, year of production, MADE IN ITALY ».

Guidance for Use

For installations for which the standards require cables resistant to fire propagation; for installation in surface mounted or embedded conduits or pipes. 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.

The cross-section of 1 mm² is intended only for the electric circuits of lifts and elevators, or for the internal wiring of switchboards for signalling and control circuits.

FS17-450/750 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-s3,d1,a3.

Further instructions and guidance for use are given in the EN 50565 standard.

According to CPR EN 50399



Minimum internal bending radii 4 times the overall diameter



EN 60332-1-2



Low emission corrosive gasses



Minimum installation and handling temp +5 °C



Lead Free Ecogamma



Maximum operating temperature conduttore

70 °C

According to RoHS



Maximum short circuit temperature

160 °C

Minimum usage temperature -10 °C



Maximum tensile stress 1,5 kg/mm²



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Nominal cross-sectional area of conductor	Maximum diameter of conductor wires	Thickness of insulation Specified value	Maximum overall diameter	Indicative cable weight	Maximum conductor resistance at 20°C	Minimum insulation resistance at 70 °C
mm ²	mm	mm	mm	g/m	ohm/km	Mohm•km
1	0,21	0,7	3,0	15	19,5	0,095
1.5	0,26	0,7	3,4	21	13,3	0,082
2.5	0,26	0,8	4,1	32	7,98	0,077
4	0,31	0,8	4,8	47	4,95	0,062
6	0,31	0,8	5,3	65	3,30	0,050
10	0,41	1,0	6,8	110	1,91	0,049