AFIAM

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. 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.

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

EN 60332-1-2

Minimum installation and handling temp +5 °C

Maximum operating temperature conduttore
70 °C

Maximum short circuit temperature
160 °C

Minimum usage temperature -10 °C

Maximum tensile stress 1,5 kg/mm²

Minimum internal bending radii 4 times the overall diameter
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Low emission corrosive gasses

Lead Free Ecogamma
Pb free

According to RoHS
RoSH free

Icel conduttori di energie

FS17-450/750 V

CE 0051

Nominal cross-sectional area of conductor mm²	Maximum diameter of conductor wires mm	Thickness of insulation Specified value mm	Maximum overall diameter mm	Indicative cable weight g/m	Maximum conductor resistance at 20°C ohm/km	Minimum insulation resistance at 70 °C Mohm•km
16	0,41	1,0	8,1	170	1,21	0,0039
25	0,41	1,2	10,2	255	0,780	0,0039
35	0,41	1,2	11,7	345	0,554	0,0034
50	0,41	1,4	13,9	495	0,386	0,0033
70	0,51	1,4	16,0	680	0,272	0,0029
95	0,51	1,6	18,2	900	0,206	0,0028
120	0,51	1,6	20,2	1135	0,161	0,0025
150	0,51	1,8	22,5	1410	0,129	0,0025
185	0,51	2,0	24,9	1920	0,106	0,0025
240	0,51	2,2	28,4	2260	0,0801	0,0024