



AFIAM PATRIOT N07V-K



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 60228, CEI 20-22 II, EN 60332-1-2, EN 50267-2-1.

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 R2 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" N07V-K CEI 20-22 II IEMMEQU ECOGAMMA », 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.

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

CEI
20-22 II
10 kg/m



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



According
to
RoHS



Maximum
short circuit
temperature



Minimum
usage
temperature
-10 °C



Maximum
tensile
stress
1,5 kg/mm²



N07V-K



Nominal cross-sectional area of conductor mm ²	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
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