



# H07V-K



## Reaction to Fire CPR: Eca

Single-core non-sheathed power cable with flexible conductor for general purposes.

### Rated voltage

U<sub>0</sub>/U 450/750 V

### Standards

EN 50525-1, EN 50525-2-31, EN IEC 60332-1-2, EN IEC 60228, 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 T11. 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 H07V-K IEMMEQU <HAR> ECOGAMMA Eca », on the opposed side « nominal cross section, year of production, MADE IN ITALY ».

### Guidance for Use

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.

Not suitable for: direct or indirect burial, laying outdoors or in wet environments, unprotected laying, or laying under plaster.

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

According to CPR EN IEC 60332-1-2



Minimum installation and handling temp +5 °C



Maximum operating temperature on the conductor



Maximum short circuit temperature (max 5 sec)



Minimum usage temperature -10 °C



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



Minimum internal bending radii 4 ÷ 6 times the overall diameter



Lead Free Ecogamma



According to RoHS



# H07V-K



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		Indicative cable weight g/m	Maximum resistance of conductor at 20 °C ohm/km	Minimum insulation resistance at 70 °C Mohm•km
			MIN mm	MAX mm			
1,5	0,26	0,7	2,8	3,4	21	13,3	0,010
2,5	0,26	0,8	3,4	4,1	32	7,98	0,0095
4	0,31	0,8	3,9	4,8	47	4,95	0,0078
6	0,31	0,8	4,4	5,3	65	3,30	0,0068
10	0,41	1,0	5,7	6,8	110	1,91	0,0065
16	0,41	1,0	6,7	8,1	170	1,21	0,0053
25	0,41	1,2	8,4	10,2	255	0,780	0,0050
35	0,41	1,2	9,7	11,7	345	0,554	0,0043
50	0,41	1,4	11,5	13,9	495	0,386	0,0042
70	0,51	1,4	13,2	16,0	680	0,272	0,0036
95	0,51	1,6	15,1	18,2	900	0,206	0,0036
120	0,51	1,6	16,7	20,2	1135	0,161	0,0032
150	0,51	1,8	18,6	22,5	1410	0,129	0,0032
185	0,51	2,0	20,6	24,9	1920	0,106	0,0032
240	0,51	2,2	23,5	28,4	2260	0,0801	0,0031