



H07Z1-K Type 2



Reaction to Fire CPR: C_{ca}-s1b,d1,a1

Single core flexible power cable for fixed installation, insulated with thermoplastic materials, resistant to fire propagation and with low emission of smoke and toxic and corrosive gases when exposed to fire, particularly suitable for installation in bunches.

Rated voltage

U_o/U 450/750 V

Standards

EN 50525-1, EN 50525-3-31, EN IEC 60332-1-2, EN IEC 60228, EN 60332-3-24, EN 60332-1-2, EN 50267-2-1, EN 50267-2-2, EN 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

Thermoplastic compound of type T17, 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: on one side « ICEL H07Z1-K TYPE 2 IEMMEQU ◁HAR▷ Ecogamma Cca-s1b,d1,a1 », on the opposed side « nominal cross section, year of production, MADE IN ITALY ».

Guidance for Use

For installation where high presence of people is foreseen and cables are not installed in bunches. 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.

H07Z1-K Type 2 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.

Unsuitable: for installation in bunches, for outdoor use, direct or indirect burring in earth, in damp premises, directly under plaster.

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

According to CPR
EN 50399 and
EN 60332-3-24



EN IEC
60332-1-2



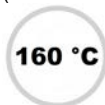
Minimum installation and handling temp + 5 °C



Maximum operating temperature on the conductor



Maximum short circuit temperature (max 5 sec)



Minimum usage temperature -10 °C



Maximum tensile stress 1,5 kg/mm²



Minimum internal bending radii 4 ÷ 6 times the overall diameter



low emission of smoke LSOH



Low emission toxic and corrosive gas LSOH



Lead Free Ecogamma



According to RoHS



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| nominal cross-sectional area of conductors mm ² | 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 insulance resistance at 90 °C Mohm•km |
|--|--|--|-------------------------|--------|-----------------------------|---|---|
| | | | MIN mm | MAX mm | | | |
| 1,5 | 0,26 | 0,7 | 2,8 | 3,4 | 22 | 13,3 | 0,010 |
| 2,5 | 0,26 | 0,8 | 3,4 | 4,1 | 33 | 7,98 | 0,009 |
| 4 | 0,31 | 0,8 | 3,9 | 4,8 | 47 | 4,95 | 0,007 |
| 6 | 0,31 | 0,8 | 4,4 | 5,3 | 65 | 3,30 | 0,006 |
| 10 | 0,41 | 1,0 | 5,7 | 6,8 | 110 | 1,91 | 0,0056 |
| 16 | 0,41 | 1,0 | 6,7 | 8,1 | 163 | 1,21 | 0,0046 |
| 25 | 0,41 | 1,2 | 8,4 | 10,2 | 250 | 0,780 | 0,0044 |
| 35 | 0,41 | 1,2 | 9,7 | 11,7 | 339 | 0,554 | 0,0038 |
| 50 | 0,41 | 1,4 | 11,5 | 13,9 | 492 | 0,386 | 0,0037 |
| 70 | 0,51 | 1,4 | 13,2 | 16,0 | 674 | 0,272 | 0,0032 |
| 95 | 0,51 | 1,6 | 15,1 | 18,2 | 890 | 0,206 | 0,0032 |
| 120 | 0,51 | 1,6 | 16,7 | 20,2 | 1125 | 0,161 | 0,0029 |
| 150 | 0,51 | 1,8 | 18,6 | 22,5 | 1400 | 0,129 | 0,0029 |
| 185 | 0,51 | 2,0 | 20,6 | 24,9 | 1716 | 0,106 | 0,0029 |
| 240 | 0,51 | 2,2 | 23,5 | 28,4 | 2263 | 0,0801 | 0,0028 |