



H07Z1-K Type 1



Single core flexible power cable insulated with thermoplastic materials, flame retardant on a single vertical cable test, having low emission of smoke and toxic and corrosive gases when exposed to fire.

Rated voltage

U₀/U 450/750 V

Standards

EN 50525-1, EN 50525-3-31, EN IEC 60332-1-2, EN IEC 60228, EN 60332-1-2, EN 50267-2-1, EN 50267-2-2, EN 61034-2.

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 1 IEMMEQU <HAR> Ecogamma », 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.

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.

EN IEC
60332-1-2



Minimum internal
bending radii
4 ÷ 6 times the
overall diameter



Minimum
installation and
handling temp
+ 5 °C



low emission
of smoke
LS0H



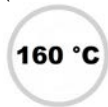
Maximum
operating
temperature
on the conductor



Low emission
toxic and
corrosive gas
LS0H



Maximum
short circuit
temperature
(max 5 sec)



Lead Free
Ecogamma



Minimum
usage
temperature
-10 °C



According
to
RoHS



Maximum
tensile
stress
1,5 kg/mm²



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◁HAR▷ CE

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 insulation 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