



# H07Z1-U Type 1



Single core with solid conductor 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

Uo/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

Solid annealed plain copper class 1 (EN IEC 60228).

## Insulation

Thermoplastic compound of type TI7, 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-U 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  
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  
5 kg/mm<sup>2</sup>



Minimum internal  
bending radii  
4 ÷ 6 times the  
overall diameter



low emission  
of smoke  
LS0H



Low emission  
toxic and  
corrosive gas  
LS0H



Lead Free  
Ecogamma



According  
to  
RoHS



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◁HAR▷ CE

nominal cross-sectional area of conductors mm <sup>2</sup>	Number 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	1	0,7	2,6	3,2	19	12,1	0,011
2,5	1	0,8	3,2	3,9	32	7,41	0,010
4	1	0,8	3,6	4,4	47	4,61	0,0087
6	1	0,8	4,1	5,0	65	3,08	0,0074