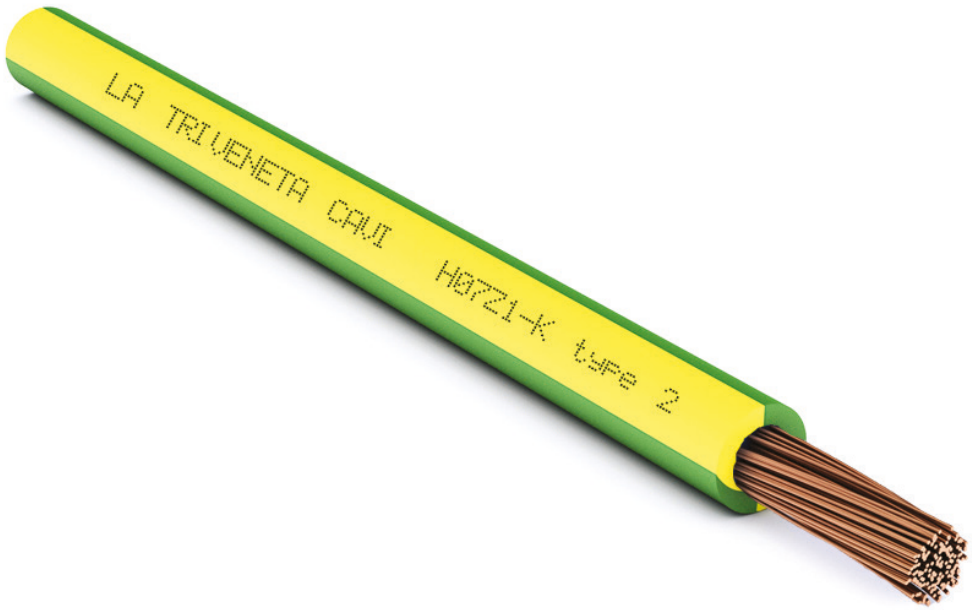
H07Z1-K Type 2 (C_{ca})

Structure and electrical, physical, mechanical requirements:	EN 50525-3-31
Fire propagation:	EN 60332-3-24
Corrosive gases or halogens:	EN 50267-2-1
	EN 50267-2-2
	EN 60684-2
Low Voltage Directive:	2014/35/UE
RoHS Directive:	2011/65/UE

REACTION TO FIRE

CPR COMPLIANT
REGULATION 305/2011/EU

Standard:	EN 50575:2014+A1:2016
Class:	C_{ca}-s1b, d1, a1
Classification:	EN 13501-6
Heat and smoke emission and flame development:	EN 50399
Flame propagation:	EN 60332-1-2
Corrosive gases or halogens:	EN 60754-2
Smoke density:	EN 61034-2
Notified Body:	0051 - IMQ
CE	2017



Description

- Conductor: class 5, flexible, plain copper wire
- Insulation: LS0H termoplastic, TI7 quality
- Colour: black, blue, brown, orange, grey, red, light blue, violet, white, green/yellow.

LS0H = Low Smoke Zero Halogen

Functional characteristics

- Rated voltage Uo/U: 450/750 V
- Max. operating temperature: 70°C
- Min. operating temperature: -10°C (without mechanical shocks)
- Max. short circuit temperature: 160°C

Installation conditions

- Minimum installation temperature: 5°C
- Recommended minimum bending radius: 4 times the cable diameter
- Recommended maximum tensile stress: 50 N/mm² of the cross-section of the copper

Marking

H07Z1-K TYPE 2 [company] IEMMEQU ◄HAR► [year]

Special features

Good sliding properties in pipes, good abrasion resistance, easy stripping.

Use and installation method

Reference Guide EN 50565

Suitable for environments containing a large number of people, when special fire performances are necessary or where local conditions or regulations require increased levels of public safety, a low level of smoke emission, toxic and corrosive gases. Suitable for fixed protected installations in lighting and control gear for voltages up to 1000 V a.c. or up to 750 V d.c. to earth. For installations in surface-mounted or embedded conduits or similar closed systems. It can be installed in bunches. The presence of water in contact with cable is not acceptable.

Reference Construction Products Regulation 305/2011 EU and Standard EN 50575:

Given its properties of limiting the development of fire and heat emission, the cable is suitable for the supply of electricity in buildings and other civil engineering works.

Formation	Approx. conductor Ø	Average insulation thickness	Max. external Ø	Max. electrical resistance at 20°C	Approx. cable weight	Current rating in pipe in air at 30°C
n° x mm²	mm	mm	mm	Ω/km	kg/km	A
1 x 1,5	1,5	0,7	3,4	13,3	20	15,5
1 x 2,5	2,0	0,8	4,1	7,98	32	21
1 x 4	2,5	0,8	4,8	4,95	46	28
1 x 6	3,0	0,8	5,3	3,30	65	36
1 x 10	4,0	1,0	6,8	1,91	109	50
1 x 16	5,0	1,0	8,1	1,21	162	68
1 x 25	6,2	1,2	10,2	0,780	252	89
1 x 35	7,4	1,2	11,7	0,554	345	110
1 x 50	8,9	1,4	13,9	0,386	492	134
1 x 70	10,5	1,4	16,0	0,272	682	171
1 x 95	12,2	1,6	18,2	0,206	893	207
1 x 120	13,8	1,6	20,2	0,161	1124	239
1 x 150	15,4	1,8	22,5	0,129	1406	275
1 x 185	16,9	2,0	24,9	0,106	1715	314
1 x 240	19,5	2,2	28,4	0,0801	2264	369
1 x 300 *	22,0	2,4	/	0,0641	2784	424
1 x 400 *	26,0	2,6	/	0,0486	3806	487

N.B. Permissible current rating values are according to a three charged conductors
* FORMATIONS WITHOUT CERTIFICATION ◄HAR►