



H05Z-U / H07Z-U

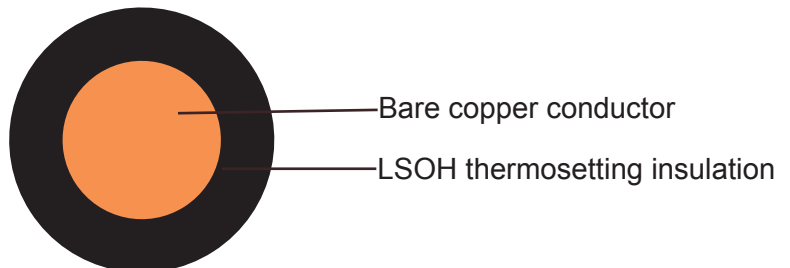
Application and Description

These cables are designed for the internal wiring of switchboards and distributor boards with an alternating nominal voltage up to 1000 Volts or a direct voltage up to 750 volts. Generally install in pipes or ducts and internal wiring of appliances with maximum operating temperature of 90° C, and generally in areas (such as public and government buildings) where smoke and toxic fumes may cause a threat to life and equipment. The cables produce no corrosive gasses when burnt which is particularly important where electronic equipment is installed.



Cable Construction

- Solid bare copper
- single wire to IEC 60228 CI-1
- Cross-link polyolefin EI5 core insulation
- LSOH - low smoke, zero halogen



Insulation Colour

Green/Yellow, Black, Blue, Brown, Red, White, Yellow, Grey, Violet

Technical Characteristics

- Working voltage: 300/500v (H05Z-U), 450/750v (H07Z-U)
- Test voltage: 2000 / 2500 volts
- Flexing bending radius: 15 x Ø
- Static bending radius: 10 x Ø
- Flexing temperature: +5° C to +90° C
- Short circuit temperature: +250° C
- Insulation resistance: 10 MΩ x km



- Flame retardant: IEC 60332.1
- Smoke density acc. to EN 50268 / IEC 61034
- Corrosiveness of combustion gases acc. to EN 50267-2-2, IEC 60754-2
- Flame test: flame-retardant acc. to EN 50265-2-1, IEC 60332.1

Cable Parameter

AWG	No. of Cores x Nominal Cross Sectional Area	Nominal Thickness of Insulation	Nominal Overall Diameter	Nominal Copper Weight	Nominal Weight	Minimum insulation resistance at 90 °C
	# x mm ²	mm	mm	kg/km	kg/km	MΩ·km
H05Z-U						
20	1 x 0.5	0.6	1.9-2.4	4.8	8	0.015
18	1 x 0.75	0.6	2.1-2.6	7.2	12	0.012
17	1 x 1	0.6	2.2-2.8	9.6	14	0.011
H07Z-U						
16	1 x 1.5	0.7	2.6-3.3	14.4	20	0.011
14	1 x 2.5	0.8	3.2-4.0	24	30	0.010
12	1 x 4	0.8	3.6-4.6	38	45	0.0085
10	1 x 6	0.8	4.1-5.2	58	65	0.0070
8	1 x 10	1.0	5.3-6.6	96	105	0.0070

