

## H05Z-U/H07Z-U/H07Z-R

### Application and Description

H05Z-U/H07Z-U/H07Z-R 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. H05Z-U/H07Z-U/H07Z-R cables produce no corrosive gasses when burnt which is particularly important where electronic equipment is installed.

### Standard and Approval

<HAR> HD 22.9 S2, VDE-0282 Part-9, BS 7211, IEC 60754-2, EN 50267, VDE 0482-267, CE Low Voltage Directive 73/23/EEC and 93/68/EEC, ROHS compliant

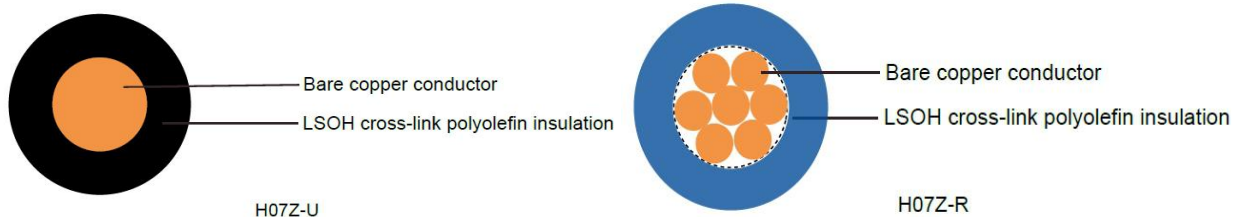
### Cable Construction

Solid bare copper single wire to IEC 60228 Cl-1(H05Z-U / H07Z-U)

Bare copper strands to IEC 60228 Cl-2 (H07Z-R)

Cross-link polyolefin EI5 core insulation

LSOH - low smoke, zero halogen



### Technical Characteristics

Working voltage: 300/500v (H05Z-K), 450/750v (H07Z-K)

Test voltage: 2500 volts

Flexing bending radius: 8 x Ø

Static bending radius: 8 x Ø

Flexing temperature: -15° C to +90° C

Static temperature: -40° C to +90° C

Flame retardant: IEC 60332.1

Insulation resistance: 10 MΩ x km

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
	# x mm <sup>2</sup>	mm	mm	kg/Km	kg/Km
<b>H05V-K</b>					
20(16/32)	1 x 0.5	0.6	2.3	4.8	9
18(24/32)	1 x 0.75	0.6	2.5	7.2	12.4
17(32/32)	1 x 1	0.6	2.6	9.6	15
<b>H07Z-K</b>					
16(30/30)	1 x 1.5	0.7	3.5	14.4	24
14(50/30)	1 x 2.5	0.8	4	24	35
12(56/28)	1 x 4	0.8	4.8	38	51
10(84/28)	1 x 6	0.8	6	58	71
8(80/26)	1 x 10	1.0	6.7	96	118
6(128/26)	1 x 16	1.0	8.2	154	180
4(200/26)	1 x 25	1.2	10.2	240	278
2(280/26)	1 x 35	1.2	11.5	336	375
1(400/26)	1 x 50	1.4	13.6	480	560
2/0(356/24)	1 x 70	1.4	16	672	780
3/0(485/24)	1 x 95	1.6	18.4	912	952
4/0(614/24)	1 x 120	1.6	20.3	1152	1200
300 MCM (765/24)	1 x 150	1.8	22.7	1440	1505
350 MCM (944/24)	1 x 185	2.0	25.3	1776	1845
500MCM(1225/24)	1 x 240	2.2	28.3	2304	2400