H05V-R/H07V-R

Application and Description

These cables are preferably for installation indoors, in cable ducts and in industrial plants or switching stations, under ground installation. Can be used in switchboards and distributor boards or where a thicker strand of multi-wire is required. Found in electronic and electrical equipment and switchgear cabinets designed for export to a European country and for MRO replacement of European made equipment wire.

Standard and Approval

HD 21.3 S3, VDE-0281 Part-3, CE Low Voltage Directive 73/23/EEC and 93/68/EEC, ROHS compliant

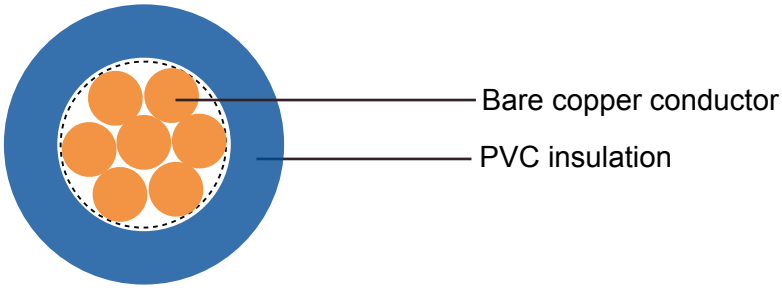
Cable Construction

- Bare copper solid/strands conductor
- Strands to VDE-0295 Class-2, IEC 60228 Cl-2
- Special PVC TI1 core insulation
- Cores to VDE-0293 colors on chart

Technical Characteristics

- Working voltage: 300/500 volts(H05V-R), 450/750 volts(H07V-R)
- Test voltage: 2000 volts(H05V-R), 2500 volts(H07V-R)
- Flexing bending radius: 15 x Ø
- Static bending radius: 15 x Ø
- Flexing temperature: -5º C to +70º C
- Static temperature: -30º C to +80º C
- Short circuit temperature: +160º C
- Flame retardant: IEC 60332.1
- Insulation resistance: 10 MΩ x km

H05V-R



H05V-R

Cable Parameter

AWG	No. of Cores x Nominal Cross Sectional Area *# x mm²*	Nominal Thickness of Insulation *mm*	Nominal Overall Diameter *mm*	Nominal Copper Weight *kg/km*	Nominal Weight *kg/km*
		H05V-R			
20(7/29)	1 x 0.5	0.6	2.2	4.8	9
18(7/27)	1 x 0.75	0.6	2.4	7.2	12
17(7/26)	1 x 1	0.6	2.6	9.6	15
		H07V-R			
16(7/24)	1 x 1.5	0.7	3.0	14.4	23
14(7/22)	1 x 2.5	0.8	3.6	24	35
12(7/20)	1 x 4	0.8	4.2	39	51
10(7/18)	1 x 6	0.8	4.7	58	71
8(7/16)	1 x 10	1	6.1	96	120
6(7/14)	1 x 16	1	7.2	154	170
4(7/12)	1 x 25	1.2	8.4	240	260
2(7/10)	1 x 35	1.2	9.5	336	350
1(19/13)	1 x 50	1.4	11.3	480	480
2/0(19/11)	1 x 70	1,4	12.6	672	680
3/0(19/10)	1 x 95	1,6	14.7	912	930
4/0(37/12)	1 x 120	1,6	16.2	1152	1160
300MCM(37/11)	1 x 150	1,8	18.1	1440	1430
350MCM(37/10)	1 x 185	2,0	20.2	1776	1780
500MCM(61/11)	1 x 240	2,2	22.9	2304	2360
-	1 x 300	2.4	24.5		2940
-	1 x 400	2.6	27.5		3740