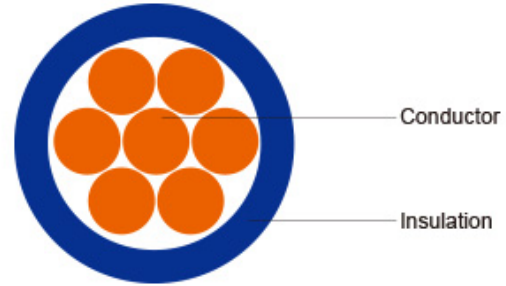


German Standard Industrial Cables H05V-R/H07V-R



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
BS 6004
VDE-0281 Part-3
CEI 20-20/3
CEI 20-35 (EN60332-1)
CEI 20-52
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 CI-2
Special PVC T11 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: -5 °C to +70 °C
STATIC TEMPERATURE: -30 °C to +80 °C
SHORT CIRCUIT TEMPERATURE: +160 °C
FLAME RETARDANT: IEC 60332.1
INSULATION RESISTANCE: 10 MΩ x km

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 ²	MM	MM	KG/KM	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