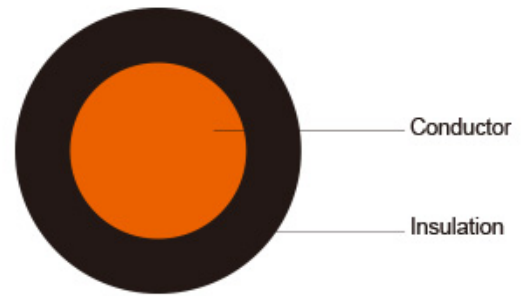


German Standard Industrial Cables H05V2-U/H07V2-U



Application and Description

These cables are for fixed protected installation inside appliances and in, or on, lighting fittings. Suitable for installation in surface mounted or embedded conduits, only for signalling and control circuits. Maximum conductor temperature in normal use 90°C. Not to be used in contact with object higher than 85°C. Not suitable for fixed distribution system.

Standard and Approval

HD 21.7 S2, VDE-0281 Part-7, CEI20-20/7, CE Low Voltage Directive 73/23/EEC and 93/68/EEC, ROHS compliant

Cable Construction

- Solid bare copper single wire
- Solid to DIN VDE 0281-3, HD 21.3 S3 and IEC 60227-3
- Special PVC T13 core insulation
- Cores to VDE-0293 colors on chart
- H05V-U (20, 18 & 17 AWG)
- H07V-U (16 AWG and Larger)

Technical Characteristics

- Working voltage: 300/500v (H05V-U)
- Working voltage: 450/750v (H07V-U)
- Test voltage: 2000V(H05V-U)/2500V (H07V-U)
- 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 # X MM ²	NOMINAL THICKNESS OF INSULATION MM	NOMINAL OVERALL DIAMETER MM	NOMINAL COPPER WEIGHT KG/KM	NOMINAL WEIGHT KG/KM
20	1 x 0.5	0.6	2.1	4.8	9
18	1 x 0.75	0.6	2.2	7.2	11
17	1 x 1	0.6	2.4	9.6	14
16	1 x 1.5	0.7	2.9	14.4	21
14	1 x 2.5	0.8	3.5	24.0	33
12	1 x 4	0.8	3.9	38.0	49
10	1 x 6	0.8	4.5	58.0	69

8	1 x 10	1.0	5.7	96.0	115
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