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


Cable Construction

- Solid bare copper single wire
- Solid to DIN VDE 0281-3, HD 21.3 S3 and IEC 60227-3
- Special PVC TI3 ore 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
## German Standard (VDE)

### Cable Parameter

<table>
<thead>
<tr>
<th>AWG</th>
<th>No. of Cores x Nominal Cross Sectional Area # x mm²</th>
<th>Nominal Thickness of Insulation mm</th>
<th>Nominal Overall Diameter mm</th>
<th>Nominal Copper Weight kg/km</th>
<th>Nominal Weight kg/km</th>
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