

SPECIFICATION

| 1.Scope: This specification established a description for PVC insulation,Cotton yarn for Filler, Cotton paper for Seperator and TPU jacket cable. | | | 3.Physical and Electrical Performance <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%;">Item</th> <th style="width: 20%;"></th> <th style="width: 40%;">Requirement</th> </tr> </thead> <tbody> <tr> <td>Spark Test</td> <td style="text-align: center;">kv</td> <td>3.0 for insulation; 3.0 for jacket</td> </tr> <tr> <td>Conductor resistance</td> <td style="text-align: center;">ohm/km</td> <td>26.0 (at 20°Cmax)</td> </tr> <tr> <td rowspan="2">Temperature rating</td> <td style="text-align: center;">Occasional flexing</td> <td>- 5°C up to +70°C max. conductor temp.</td> </tr> <tr> <td style="text-align: center;">Fixed installation</td> <td>- 40°C up to +80°C max. conductor temp.</td> </tr> <tr> <td>Voltage rating (U₀ / U)</td> <td style="text-align: center;">V</td> <td>300/500</td> </tr> <tr> <td>Test voltage (Core/Core)</td> <td></td> <td>4000V AC</td> </tr> <tr> <td>Flame retardant test</td> <td></td> <td>FT2</td> </tr> <tr> <td>UV resistance</td> <td></td> <td>acc. to EN 50620 resp. VDE 0285-620 acc. to EN ISO 4892-2-2013, method A (change of colour allowed)</td> </tr> <tr> <td>Ozone resistance</td> <td></td> <td>acc. to EN 50396 resp. VDE 0473-396, method B</td> </tr> <tr> <td>Oil Resistant Jacket (UL758&UL1581)</td> <td></td> <td>(7d @ 60°C)</td> </tr> <tr> <td>Cold bend (-40°Cx4h)</td> <td></td> <td>No cracks</td> </tr> <tr> <td>Minimum bending radius</td> <td></td> <td>Occasional flexing: 12.5 x cable diameter Fixed installation: 6 x cable diameter</td> </tr> <tr> <td>General requirements</td> <td></td> <td>These cables are conform to the EU-Directive 2014/35/EU (Low Voltage Directive)</td> </tr> </tbody> </table> | | | Item | | Requirement | Spark Test | kv | 3.0 for insulation; 3.0 for jacket | Conductor resistance | ohm/km | 26.0 (at 20°Cmax) | Temperature rating | Occasional flexing | - 5°C up to +70°C max. conductor temp. | Fixed installation | - 40°C up to +80°C max. conductor temp. | Voltage rating (U ₀ / U) | V | 300/500 | Test voltage (Core/Core) | | 4000V AC | Flame retardant test | | FT2 | UV resistance | | acc. to EN 50620 resp. VDE 0285-620 acc. to EN ISO 4892-2-2013, method A (change of colour allowed) | Ozone resistance | | acc. to EN 50396 resp. VDE 0473-396, method B | Oil Resistant Jacket (UL758&UL1581) | | (7d @ 60°C) | Cold bend (-40°Cx4h) | | No cracks | Minimum bending radius | | Occasional flexing: 12.5 x cable diameter Fixed installation: 6 x cable diameter | General requirements | | These cables are conform to the EU-Directive 2014/35/EU (Low Voltage Directive) |
|---|--|--|--|-------------|-------|-----------|-------------|---------------------------|------------|------------------|------------------------------------|-----------------------------------|------------|--------------------|--------------------|--------------------|--|--------------------|---|-------------------------------------|-----------------|---------|--------------------------|-------------|-----------|----------------------|--------------|---------|---------------|--------|--|------------------|----------------|---|-------------------------------------|-----------|-------------|----------------------|---------|--|------------------------|-------|---|---|--|--|
| Item | | Requirement | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spark Test | kv | 3.0 for insulation; 3.0 for jacket | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Conductor resistance | ohm/km | 26.0 (at 20°Cmax) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Temperature rating | Occasional flexing | - 5°C up to +70°C max. conductor temp. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Fixed installation | - 40°C up to +80°C max. conductor temp. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Voltage rating (U ₀ / U) | V | 300/500 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Test voltage (Core/Core) | | 4000V AC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Flame retardant test | | FT2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UV resistance | | acc. to EN 50620 resp. VDE 0285-620 acc. to EN ISO 4892-2-2013, method A (change of colour allowed) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ozone resistance | | acc. to EN 50396 resp. VDE 0473-396, method B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Oil Resistant Jacket (UL758&UL1581) | | (7d @ 60°C) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cold bend (-40°Cx4h) | | No cracks | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Minimum bending radius | | Occasional flexing: 12.5 x cable diameter Fixed installation: 6 x cable diameter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| General requirements | | These cables are conform to the EU-Directive 2014/35/EU (Low Voltage Directive) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.Design and Construction Data <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">Item</th> <th style="width: 15%;">Description</th> <th style="width: 75%;">UnitA</th> </tr> </thead> <tbody> <tr> <td rowspan="3">Conductor</td> <td>No. of pair</td> <td>2C (0.75mm²)</td> </tr> <tr> <td>Material</td> <td>Bare copper wire</td> </tr> <tr> <td>Construction</td> <td>24/0.20±0.008 (IEC 60228 Class 5)</td> </tr> <tr> <td rowspan="4">Insulation</td> <td>Material</td> <td>PVC</td> </tr> <tr> <td>Nom. Thickness</td> <td>0.35</td> </tr> <tr> <td>Nom. O.D.:</td> <td>1.90±0.10</td> </tr> <tr> <td>Color</td> <td>1.Brown 2.White</td> </tr> <tr> <td>Filler</td> <td>Material</td> <td>Cotton yarn</td> </tr> <tr> <td rowspan="2">Seperator</td> <td>Material</td> <td>Cotton paper</td> </tr> <tr> <td>Overlap</td> <td>≥25%</td> </tr> <tr> <td rowspan="4">Jacket</td> <td>Material</td> <td>TPU</td> </tr> <tr> <td>Nom. Thickness</td> <td>0.70</td> </tr> <tr> <td>Nom. O.D.:</td> <td>5.40±0.15</td> </tr> <tr> <td>Color</td> <td>Black</td> </tr> <tr> <td rowspan="2">Marking</td> <td> CAB1390H POWER CABLE 2X0.75mm² 300/500V RoHS TPU</td> <td></td> </tr> <tr> <td>Color</td> <td>White (Ink printing)</td> </tr> </tbody> </table> | | | Item | Description | UnitA | Conductor | No. of pair | 2C (0.75mm ²) | Material | Bare copper wire | Construction | 24/0.20±0.008 (IEC 60228 Class 5) | Insulation | Material | PVC | Nom. Thickness | 0.35 | Nom. O.D.: | 1.90±0.10 | Color | 1.Brown 2.White | Filler | Material | Cotton yarn | Seperator | Material | Cotton paper | Overlap | ≥25% | Jacket | Material | TPU | Nom. Thickness | 0.70 | Nom. O.D.: | 5.40±0.15 | Color | Black | Marking | CAB1390H POWER CABLE 2X0.75mm ² 300/500V RoHS TPU | | Color | White (Ink printing) | 4.Cross-section <div style="text-align: center; margin: 20px 0;"> </div> | | |
| Item | Description | UnitA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Conductor | No. of pair | 2C (0.75mm ²) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Material | Bare copper wire | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Construction | 24/0.20±0.008 (IEC 60228 Class 5) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Insulation | Material | PVC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Nom. Thickness | 0.35 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Nom. O.D.: | 1.90±0.10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Color | 1.Brown 2.White | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Filler | Material | Cotton yarn | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Seperator | Material | Cotton paper | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Overlap | ≥25% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jacket | Material | TPU | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Nom. Thickness | 0.70 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Nom. O.D.: | 5.40±0.15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Color | Black | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Marking | CAB1390H POWER CABLE 2X0.75mm ² 300/500V RoHS TPU | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Color | White (Ink printing) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.Remark: 1).Reference standard: UL1581&EN 50525-2-51&EN 50525-2-21; 1).The cable is complied with RoHS standard; 2).The unit of the dimension is mm unless specified in the specification; 3).The cross sections do not represent the actual size for your information; | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |