

TECHNICAL DATA SHEET LOW VOLTAGE POWER CABLE

Cable Description:

Cu / PVC / PVC 300 / 500 V 3X10 mm² white (Flex)
IEC 60227-5 / C

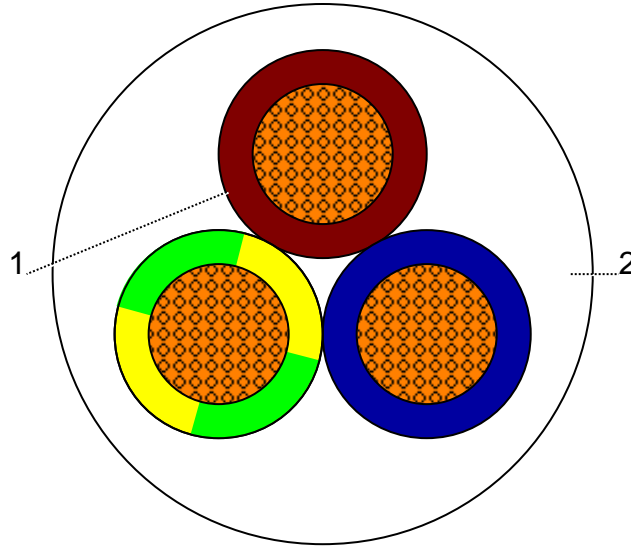
| Design and Construction Data: | | |
|--|------------------------------|---|
| Reference Manufacturing Standards | | IEC/BS EN 60228, IEC 60227-5 |
| Max. Permissible Continuous Conductor Temp | °C | 70 |
| Max. Conductor Short Circuit Temp for 5 Seconds | °C | 160 °C |
| Rated Voltage ' U ₀ / U ' | kV | 0.3 / 0.5 |
| Number of Conductors x Cross-Section | mm ² | 3 x 10 |
| Conductor Material & Shape | | Copper & Flexible Class 5 non-compacted Round Shape |
| Insulation Material | | PVC |
| Conductor Nominal Insulation Thickness | mm | 1.00 |
| Insulation Color | | BROWN, BLUE, YELLOW WITH GREEN STRIPES |
| Outer Sheath Material | | PVC |
| Colour of Outer Sheath | | WHITE |
| Approximate Cable Overall Diameter | mm | 15.6 |
| Electrical Data: | | |
| Max Conductor DC resistance @ 20 °C | ohms/km | 1.9100 |
| Max Conductor AC resistance @ 70 °C | ohms/km | 2.2855 |
| Max Conductor Short Circuit Current @ 1 Second | kA | 1.15 |
| Current Carry Capacity | | |
| Laid in air @ 40 °C Ambient Temperature | | |
| Free In Air | A | 50 |
| In Pipes | A | 41 |
| Laid in Ground | | |
| Direct Laid | A | 60 |
| Laid In Duct | A | 50 |
| Laid in Ground with the following conditions: Ambient Ground Temperature: 35 °C Depth of laying in ground: 0.5 m Soil Thermal Resistivity: 1.2 °K.m/W | | |
| Additional Data: | | |
| Maximum pulling Tension | kN | 1.50 |
| Maximum side wall pressure | kN/m | 12.1 |
| Minimum Bending Radius | mm | 124 |
| The Cable shall meet all Test requirements of: | IEC/BS EN 60228, IEC 60227-5 | |
| Packing Data: | | |
| Type | | Coil |
| Length of Cable per Coil (± 2%) | m | 92 |
| Gross Weight (Approximate) | kg | 45 |

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Cable Marking:

BAHRA CABLES CO. KSA 3 X 10 mm² Cu / PVC / PVC (Flex) 300 / 500 V H05VV-F BS EN50525-2-11 FR IEC 60332-1 (60227 IEC 53) Manufacturing Year

Cable Drawing



| Description | Cu / PVC / PVC 300 / 500 V 3X10 mm ² white (Flex) | Approx. Diameter |
|-------------|--|------------------|
| 1 | Core | |
| | Flexible Copper Conductor | 3.99 |
| | PVC insulated | 5.99 |
| 2 | PVC Outer Sheathing | 15.55 |