

TECHNICAL DATA SHEET LOW VOLTAGE POWER CABLE

Cable Description:

Cu / XLPE / PVC 1kV 4X25 mm² RM
IEC 60502-1 FR-IEC 60332-1

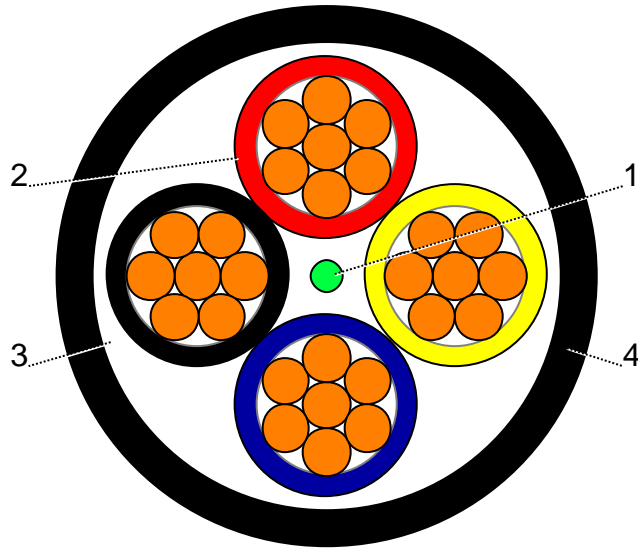
| Design and Construction Data: | | |
|--|---|---|
| Reference Manufacturing Standards | | IEC/BS EN 60228, IEC 60502-1 |
| Max. Permissible Continuous Conductor Temp | °C | 90 |
| Max. Conductor Short Circuit Temp for 5 Seconds | °C | 250 |
| Rated Voltage 'U ₀ / U' | kV | 0.6 / 1.0 |
| Number of Conductors x Cross-Section | mm ² | 4 x 25 |
| Conductor Material & Shape | | Copper & Stranded Class 2 non-compacted Round Shape |
| Insulation Material | | XLPE |
| Conductor Nominal Insulation Thickness | mm | 0.90 |
| Insulation Color | | RED, YELLOW, BLUE, BLACK |
| Outer Sheath Material | | PVC - ST2, flame retardant |
| Colour of Outer Sheath | | BLACK |
| Approximate Cable Overall Diameter | mm | 23.9 |
| Electrical Data: | | |
| Max Conductor DC resistance @ 20 °C | ohms/km | 0.7270 |
| Max Conductor AC resistance @ 90 °C | ohms/km | 0.9275 |
| Max Conductor Short Circuit Current @ 1 Second | kA | 3.58 |
| Current Carry Capacity | | |
| Laid in air @ 40 °C Ambient Temperature | | |
| Free In Air | A | 118 |
| In Pipes | A | 90 |
| Laid in Ground | | |
| Direct Laid | A | 128 |
| Laid In Duct | A | 104 |
| 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 | 5.00 |
| Maximum side wall pressure | kN/m | 26.2 |
| Minimum Bending Radius | mm | 191 |
| The Cable shall meet all Test requirements of: | IEC/BS EN 60228, IEC 60502-1, IEC 60332-1 | |
| Packing Data: | | |
| Drum Type | | Non-Returnable |
| Length of Cable per drum (± 5%) | m | 1000 |
| Drum Dimensions "Height x Width" (Approx.) | m | 1.4 x 1.01 |
| Gross Weight (Approximate without Lagging) | kg | 1,448 |

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Cable Marking:

BAHRA CABLES CO. KSA 4 X 25 mm² Cu / XLPE / PVC 600 / 1000 V IEC 60502-1 FR IEC 60332-1
Manufacturing Year - Meter marked

Cable Drawing



| Description | Cu / XLPE / PVC 1kV 4X25 mm ² RM | Approx. Diameter |
|-------------|---|------------------|
| 1 | Non-Hygroscopic Filler | - |
| 2 | Core | |
| | Stranded Copper Conductor with round shape | 6.26 |
| | XLPE insulated | 8.06 |
| 3 | PVC Compound | 20.61 |
| 4 | PVC Outer Sheathing | 23.88 |