

TECHNICAL DATA SHEET LOW VOLTAGE POWER CABLE

Cable Description:

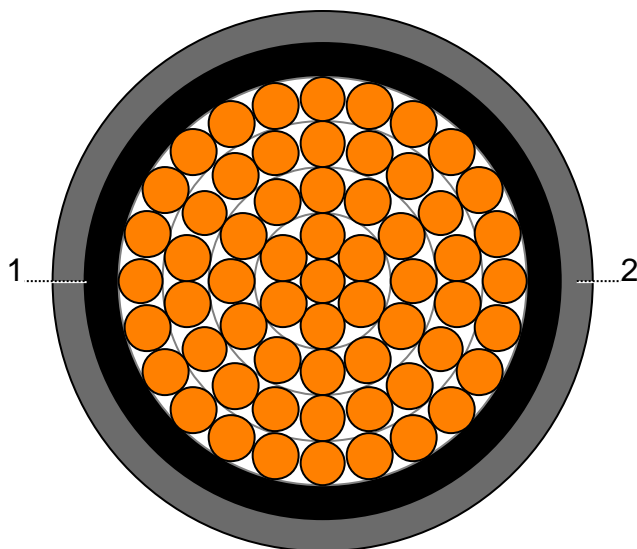
Cu / XLPE / PVC 1kV 1X240 mm² RM
IEC 60502-1 FR-IEC 60332-1

| 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 | 1 x 240 |
| Conductor Material & Shape | | Copper & Stranded Class 2 non-compacted Round Shape |
| Insulation Material | | XLPE |
| Conductor Nominal Insulation Thickness | mm | 1.70 |
| Insulation Color | | BLACK |
| Outer Sheath Material | | PVC - ST2 |
| Colour of Outer Sheath | | BLACK |
| Approximate Cable Overall Diameter | mm | 26.1 |
| Electrical Data: | | |
| Max Conductor DC resistance @ 20 °C | ohms/km | 0.0754 |
| Max Conductor AC resistance @ 90 °C Two Cables | ohms/km | 0.0993 |
| Max Conductor AC resistance @ 90 °C Three Cables/Trefoil Formation | ohms/km | 0.1003 |
| Max Conductor Short Circuit Current @ 1 Second | kA | 34.32 |
| Current Carry Capacity | | |
| Laid in air @ 40 °C Ambient Temperature | | |
| Free In Flat Shape | A | 638 |
| Free In Trefoil Shape | A | 505 |
| In Pipes | A | 361 |
| Laid in Ground | | |
| Direct Laid In Flat Shape | A | 507 |
| Direct Laid In Trefoil Shape | A | 474 |
| Laid In Duct | A | 382 |
| 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 | 12.00 |
| Maximum side wall pressure | kN/m | 57.4 |
| Minimum Bending Radius | mm | 209 |
| 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 | 1.6 x 1.01 |
| Gross Weight (Approximate without Lagging) | kg | 2,506 |

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Cable Marking:

BAHRA CABLES CO. KSA 1 X 240 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 1X240 mm ² RM | Approx. Diameter |
|-------------|--|------------------|
| 1 | Core | |
| | Stranded Copper Conductor with round shape | 19.65 |
| | XLPE insulated | 23.05 |
| 2 | PVC Outer Sheathing | 26.13 |