



## TECHNICAL DATA SHEET LOW VOLTAGE POWER CABLE

Cable Description:

Cu / XLPE / PVC 1kV 1X70 mm2 RM IEC 60502-1 FR-IEC 60332-1

Reference Manufacturing Standards  Max. Permissible Continuous Conductor Temp  Max. Conductor Short Circuit Temp for 5 Seconds  Rated Voltage 'Uo / U'  Number of Conductors x Cross-Section  Conductor Material & Shape  Insulation Material  Conductor Nominal Insulation Thickness  Insulation Color  Cotyper & Stranded Class 2  Insulation Color  BLACK  Outer Sheath Material  Colour of Outer Sheath  Approximate Cable Overall Diameter  Max Conductor DC resistance @ 20 °C  Max. Cenductor Temp  °C  90  Rev  90  Copper & Stranded Class 2  1 x 70  Copper & Stranded Class 2  1 x 70  Topper & Stranded Class 2  Topper & St			
Max. Conductor Short Circuit Temp for 5 Seconds°C250Rated Voltage 'Uo / U'kV0.6 / 1.0Number of Conductors x Cross-Sectionmm²1 x 70Conductor Material & ShapeCopper & Stranded Class 2 non-compacted Round ShapeInsulation MaterialXLPEConductor Nominal Insulation Thicknessmm1.10Insulation ColorBLACKOuter Sheath MaterialPVC - ST2Colour of Outer SheathBLACKApproximate Cable Overall Diametermm15.1			
Rated Voltage 'Uo / U'			
Number of Conductors x Cross-Section mm² 1 x 70  Conductor Material & Shape Copper & Stranded Class 2 non-compacted Round Shape  Insulation Material XLPE  Conductor Nominal Insulation Thickness mm 1.10  Insulation Color BLACK  Outer Sheath Material PVC - ST2  Colour of Outer Sheath BLACK  Approximate Cable Overall Diameter mm 15.1  Electrical Data:			
Conductor Material & Shape  Insulation Material  Conductor Nominal Insulation Thickness  Insulation Color  Insulation Color  Outer Sheath Material  Colour of Outer Sheath  Approximate Cable Overall Diameter  Electrical Data:  Copper & Stranded Class 2 non-compacted Round Shape  XLPE  Mm  1.10  BLACK  PVC - ST2  BLACK  Mm  15.1			
Insulation Material XLPE  Conductor Nominal Insulation Thickness mm 1.10  Insulation Color BLACK Outer Sheath Material PVC - ST2  Colour of Outer Sheath Approximate Cable Overall Diameter mm 15.1  Electrical Data:			
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Conductor Nominal Insulation Thickness mm 1.10 Insulation Color BLACK Outer Sheath Material PVC - ST2 Colour of Outer Sheath BLACK Approximate Cable Overall Diameter mm 15.1  Electrical Data:			
Insulation Color  Outer Sheath Material  Colour of Outer Sheath  Approximate Cable Overall Diameter  Electrical Data:  BLACK  BLACK  mm  15.1			
Outer Sheath Material PVC - ST2  Colour of Outer Sheath BLACK  Approximate Cable Overall Diameter mm 15.1  Electrical Data:			
Colour of Outer Sheath  Approximate Cable Overall Diameter mm 15.1  Electrical Data:			
Approximate Cable Overall Diameter mm 15.1  Electrical Data:			
Electrical Data:			
MUX CONQUETOR DE TESISTÀNCE Y ZU C I ONTIS/KITLI U.2680			
Max Conductor AC resistance @ 90 °C Two Cables ohms/km 0.3425			
Max Conductor AC resistance @ 90 °C Three Cables/Trefoil ohms/km 0.3428			
Formation			
Max Conductor Short Circuit Current @ 1 Second kA 10.01			
Current Carry Capacity			
Laid in air @ 40 °C Ambient Temperature			
Free In Flat Shape A 277			
Free In Trefoil Shape A 222			
In Pipes A 168			
Laid in Ground			
Direct Laid In Flat Shape A 251			
Direct Laid In Trefoil Shape A 238			
Laid In Duct A 187			
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 3.50			
Maximum side wall pressure kN/m 28.9			
Minimum Bending Radius mm 121			
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 x 0.76			
Gross Weight (Approximate without Lagging) kg 749			

Inquiry No.: EP-1000241 (126491) ksalahuddin 13/08/2023

Product ID: 14511014





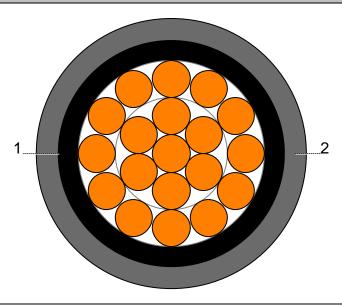
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## Cable Marking:

BAHRA CABLES CO. KSA 1 X 70 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 1X70 mm2 RM	Approx. Diameter
1	Core	
	Stranded Copper Conductor with round shape	10.39
	XLPE insulated	12.59
2	PVC Outer Sheathing	15.1

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