

TECHNICAL DATA SHEET LOW VOLTAGE POWER CABLE

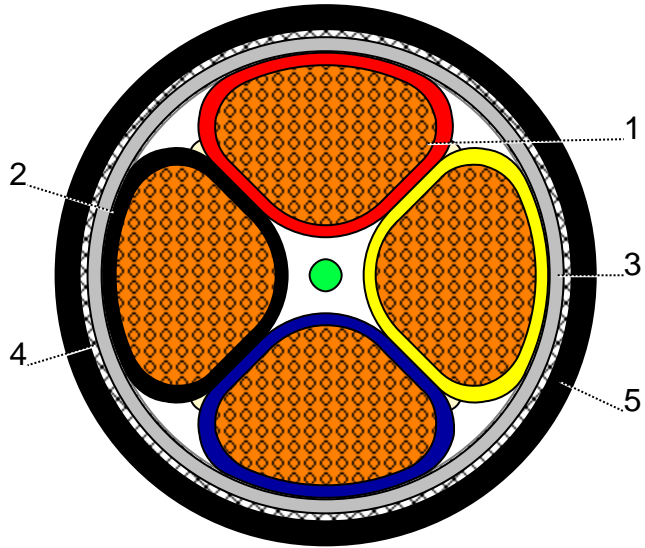
Cable Description:

Cu / XLPE / STA / PVC 1kV 4X300 mm² SM
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 300
Conductor Material & Shape		Copper & Stranded Class 2 Compacted Sector Shape
Insulation Material		XLPE
Conductor Nominal Insulation Thickness	mm	1.80
Insulation Color		RED, YELLOW, BLUE, BLACK
Armour Material Type		Galvanized Steel Tape
Outer Sheath Material		PVC - ST2
Colour of Outer Sheath		BLACK
Approximate Cable Overall Diameter	mm	63.8
Electrical Data:		
Max Conductor DC resistance @ 20 °C	ohms/km	0.0601
Max Conductor AC resistance @ 90 °C	ohms/km	0.0813
Max Conductor Short Circuit Current @ 1 Second	kA	42.90
Current Carry Capacity		
Laid in air @ 40 °C Ambient Temperature		
Free In Flat Shap	A	557
Laid in Ground		
Direct Laid In Flat Shape	A	494
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	60.00
Maximum side wall pressure	kN/m	62.7
Minimum Bending Radius	mm	957
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	300
Drum Dimensions "Height x Width" (Approx.)	m	1.8 x 1.06
Gross Weight (Approximate without Lagging)	kg	4211

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Cable Marking:
BAHRA CABLES CO. KSA 4 X 300 mm ² Cu / XLPE / STA / PVC 600 / 1000 V IEC 60502-1 FR IEC 60332-1 Manufacturing Year - Meter marked
Cable Drawing



Description	Cu / XLPE / STA / PVC 1kV 4X300 mm ² SM	Approx. Diameter
1	Core	
	Stranded Copper Conductor with sectored shape	27.57 X 19.35
	XLPE insulated	31.17 X 22.95
2	Polymeric Tape	53.22
3	PVC Compound	56.11
4	Galvanized Steel Tape Armour (GSTA)	58.11
5	PVC Outer Sheathing	63.82