

## TECHNICAL DATA SHEET LOW VOLTAGE POWER CABLE

Cable Description:

Cu / XLPE / SWA / PVC 1kV 4X240 mm<sup>2</sup> SM  
IEC 60502-1 FR-IEC 60332-1

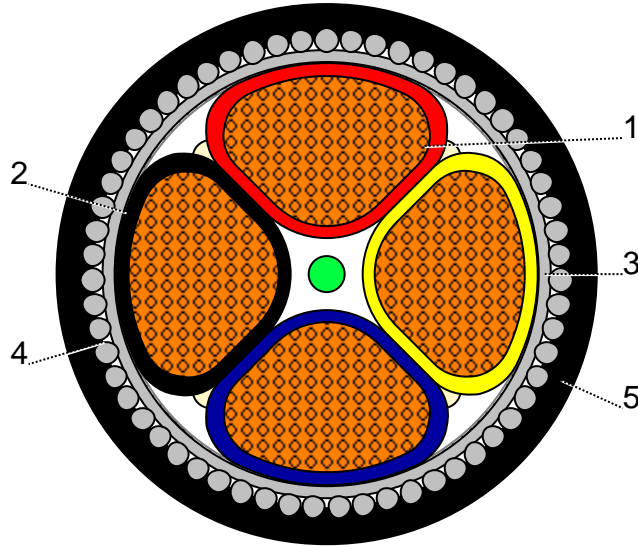
Design and Construction Data:		
Reference Manufacturing Standards		IEC/BS EN 60228, IEC 60502-1
Max. Permissible Continuous Conductor Temp	°C	90
Max. Conductor Short Circuit Temp for 5 Seconds	°C	250
Rated Voltage ' U <sub>0</sub> / U '	kV	0.6 / 1.0
Number of Conductors x Cross-Section	mm <sup>2</sup>	4 x 240
Conductor Material & Shape		Copper & Stranded Class 2 Compacted Sector Shape
Insulation Material		XLPE
Conductor Nominal Insulation Thickness	mm	1.70
Insulation Color		RED, YELLOW, BLUE, BLACK
Armour Material Type		Galvanized Steel Wire
Outer Sheath Material		PVC - ST2, flame retardant
Colour of Outer Sheath		BLACK
Approximate Cable Overall Diameter	mm	60.0
Electrical Data:		
Max Conductor DC resistance @ 20 °C	ohms/km	0.0754
Max Conductor AC resistance @ 90 °C	ohms/km	0.0999
Max Conductor Short Circuit Current @ 1 Second	kA	34.32
Current Carry Capacity		
Laid in air @ 40 °C Ambient Temperature		
Free In Air	A	491
Laid in Ground		
Direct Laid	A	444
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	48.00
Maximum side wall pressure	kN/m	100.0
Minimum Bending Radius	mm	480
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	3,906

**TECHNICAL DATA SHEET  
LOW VOLTAGE POWER CABLE**

**Cable Marking:**

BAHRA CABLES CO. KSA 4 X 240 mm<sup>2</sup> Cu / XLPE / SWA / PVC 600 / 1000 V IEC 60502-1 FR IEC 60332-1  
Manufacturing Year - Meter marked

**Cable Drawing**



Description	Cu / XLPE / SWA / PVC 1kV 4X240 mm <sup>2</sup> SM	Approx. Diameter
1	Core	
	Stranded Copper Conductor with sectored shape	24.65 X 17.3
	XLPE insulated	28.05 X 20.7
2	Polymeric Tape	46.83
3	PVC Compound	49.72
4	Galvanized Steel Wire Armour (SWA)	54.52
5	PVC Outer Sheathing	60.04