

TECHNICAL DATA SHEET LOW VOLTAGE POWER CABLE

Cable Description:

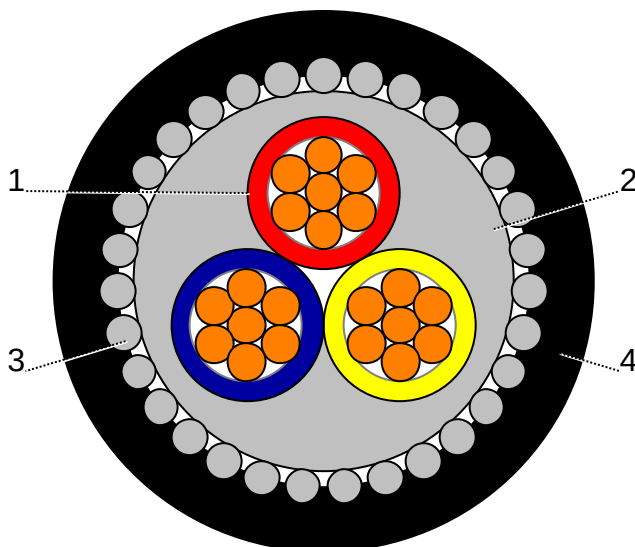
Cu / XLPE / SWA / PVC 1kV 3X10 mm² RM
IEC 60502-1 FR-IEC 60332-1

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	3 x 10
Conductor Material & Shape		Copper & Stranded Class 2 non-compacted Round Shape
Insulation Material		XLPE
Conductor Nominal Insulation Thickness	mm	0.70
Insulation Color		RED, YELLOW, BLUE
Armour Material Type		Galvanized Steel Wire
Outer Sheath Material		PVC - ST2
Colour of Outer Sheath		BLACK
Approximate Cable Overall Diameter	mm	19.1
Electrical Data:		
Max Conductor DC resistance @ 20 °C	ohms/km	1.8300
Max Conductor AC resistance @ 90 °C	ohms/km	2.3336
Max Conductor Short Circuit Current @ 1 Second	kA	1.43
Current Carry Capacity		
Laid in air @ 40 °C Ambient Temperature		
Free In Flat Shap	A	67
Laid in Ground		
Direct Laid In Flat Shape	A	76
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	1.50
Maximum side wall pressure	kN/m	9.8
Minimum Bending Radius	mm	153
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	1.2 x 1.01
Gross Weight (Approximate without Lagging)	kg	933

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Cable Marking:

BAHRA CABLES CO. KSA 3 X 10 mm² 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 3X10 mm ² RM	Approx. Diameter
1	Core	
	Stranded Copper Conductor with round shape	4.01
	XLPE insulated	5.41
2	PVC Compound	13.45
3	Galvanized Steel Wire Armour (SWA)	15.87
4	PVC Outer Sheathing	19.13