

TECHNICAL DATA SHEET LOW VOLTAGE POWER CABLE

Cable Description:

Cu / XLPE / PVC 1kV 4X16 mm² RM
IEC 60502-1 FR-IEC 60332-1

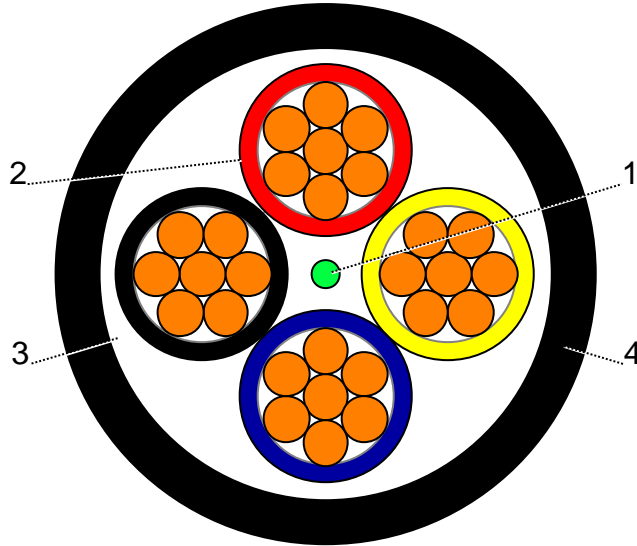
Design and Construction Data:		
Reference Manufacturing Standards		IEC/BS EN 60228, IEC 60502-1
Max. Permissible Continuous Conductor Temp	°C	90
Max. Conductor Short Circuit Temp for 5 Seconds	°C	250
Rated Voltage 'U ₀ / U'	kV	0.6 / 1.0
Number of Conductors x Cross-Section	mm ²	4 x 16
Conductor Material & Shape		Copper & Stranded Class 2 non-compacted Round Shape
Insulation Material		XLPE
Conductor Nominal Insulation Thickness	mm	0.70
Insulation Color		RED, YELLOW, BLUE, BLACK
Outer Sheath Material		PVC - ST2, flame retardant
Colour of Outer Sheath		BLACK
Approximate Cable Overall Diameter	mm	19.7
Electrical Data:		
Max Conductor DC resistance @ 20 °C	ohms/km	1.1500
Max Conductor AC resistance @ 90 °C	ohms/km	1.4667
Max Conductor Short Circuit Current @ 1 Second	kA	2.29
Current Carry Capacity		
Laid in air @ 40 °C Ambient Temperature		
Free In Air	A	88
In Pipes	A	68
Laid in Ground		
Direct Laid	A	98
Laid In Duct	A	80
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	3.20
Maximum side wall pressure	kN/m	20.3
Minimum Bending Radius	mm	158
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	957

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Cable Marking:

BAHRA CABLES CO. KSA 4 X 16 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 4X16 mm ² RM	Approx. Diameter
1	Non-Hygroscopic Filler	-
2	Core	
	Stranded Copper Conductor with round shape	4.95
	XLPE insulated	6.35
3	PVC Compound	16.47
4	PVC Outer Sheathing	19.74