



## TECHNICAL DATA SHEET LOW VOLTAGE POWER CABLE

Cable Description:

Cu / XLPE / PVC 1kV 3X150 mm2 SM+70 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 ' Uo / U '	kV	0.6 / 1.0
Number of Phase Conductors x Cross-Section	mm²	3 x 150
Phase Conductor Material & Shape		Copper & Stranded Class 2 Compacted Sector Shape
Number of Reduced Conductors x Cross-Section		1 x 70
Reduced Conductor Material & Shape		Copper & Stranded Class 2
The decided contact of		non-compacted Round Shape
Insulation Material		XLPE
Phase Conductor Nominal Insulation Thickness	mm	1.40
Reduced Conductor Nominal Insulation Thickness	mm	1.10
Insulation Color		RED, YELLOW, BLUE, BLACK
Outer Sheath Material		PVC - ST2
Colour of Outer Sheath		BLACK
Approximate Cable Overall Diameter	mm	41.1
Electrical Data:		
Max Phase Conductor DC resistance @ 20 °C	ohms/km	0.1240
Max Phase Conductor AC resistance @ 90 °C	ohms/km	0.1604
Max Reduced Conductor DC resistance @ 20 °C	ohms/km	0.2680
Max Phase Conductor Short Circuit Current @ 1 Second	kA	21.45
Current Carry Capacity		
Laid in air @ 40 °C Ambient Temperature		
Free In Air	Α	363
In Pipes	Α	258
Laid in Ground		
Direct Laid	Α	350
Laid In Duct	Α	283
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	22.50
Maximum side wall pressure	kN/m	68.4
Minimum Bending Radius	mm	329
· ·	60228, IEC 6050	2-1, IEC 60332-1
Packing Data:		
Drum Type		Non-Returnable
Length of Cable per drum (± 5%)	m	500
Drum Dimensions "Height x Width" (Approx.)	m	1.6 x 1.01
Gross Weight (Approximate without Lagging)	kg	2697

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

Product ID: 14511366





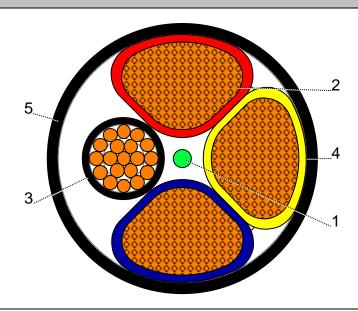
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Cable Marking:

BAHRA CABLES CO. KSA 3 X 150 + 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 3X150 mm2 SM+70 mm2 RM	Approx. Diameter
1	Non-Hygroscopic Filler	-
2	Core	
	Stranded Copper Conductor with sectored shape	19 X 13.47
	XLPE insulated	21.8 X 16.27
3	Core	
	Stranded Copper Conductor with round shape	10.39
	XLPE insulated	12.59
4	Polymeric Tape	36.93
5	PVC Outer Sheathing	41.13

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