



TECHNICAL DATA SHEET LOW VOLTAGE POWER CABLE

Cable Description:

Cu / XLPE / PVC 1kV 3X240 mm2 SM+120 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 240
Phase Conductor Material & Shape		Copper & Stranded Class 2 Compacted
Number of Reduced Conductors x Cross-Section		Sector Shape
Reduced Conductor Material & Shape		Copper & Stranded Class 2
Reduced Conductor Material & Shape		non-compacted Round Shape
Insulation Material		XLPE
Phase Conductor Nominal Insulation Thickness	mm	1.70
Reduced Conductor Nominal Insulation Thickness	mm	1.20
Insulation Color		RED, YELLOW, BLUE, BLACK
Outer Sheath Material		PVC - ST2
Colour of Outer Sheath		BLACK
Approximate Cable Overall Diameter	mm	51.6
Electrical Data:		
Max Phase Conductor DC resistance @ 20 °C	ohms/km	0.0754
Max Phase Conductor AC resistance @ 90 °C	ohms/km	0.0999
Max Reduced Conductor DC resistance @ 20 °C	ohms/km	0.1530
Max Phase Conductor Short Circuit Current @ 1 Second	kA	34.32
Current Carry Capacity		
Laid in air @ 40 °C Ambient Temperature		
Free In Air	Α	496
In Pipes	Α	346
Laid in Ground		
Direct Laid	Α	458
Laid In Duct	Α	372
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	36.00
Maximum side wall pressure	kN/m	87.2
Minimum Bending Radius	mm	413
The Cable shall meet all Test requirements of: IEC/BS EN a	60228, IEC 6050	2-1, IEC 60332-1
Packing Data:		
Drum Type		Non-Returnable
Length of Cable per drum (± 5%)	m	250
Drum Dimensions "Height x Width" (Approx.)	m	1.6 x 1.01
Gross Weight (Approximate without Lagging)	kg	2233

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

Product ID: 14511368





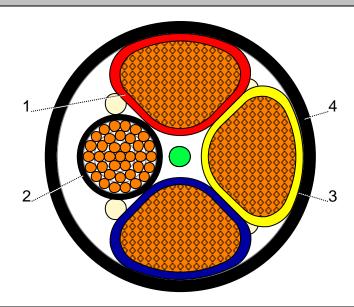
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Cable Marking:

BAHRA CABLES CO. KSA 3 X 240 + 120 mm² Cu / XLPE / PVC 600 / 1000 V IEC 60502-1 FR IEC 60332-1

Manufacturing Year - Meter marked

Cable Drawing



Cu / XLPE / PVC 1kV 3X240 mm2 SM+120 mm2 RM	Approx. Diameter
Core	
Stranded Copper Conductor with sectored shape	24.65 X 17.3
XLPE insulated	28.05 X 20.7
Core	
Stranded Copper Conductor with round shape	13.87
XLPE insulated	16.27
Polymeric Tape	46.83
PVC Outer Sheathing	51.6
	Core Stranded Copper Conductor with sectored shape XLPE insulated Core Stranded Copper Conductor with round shape XLPE insulated Polymeric Tape

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