

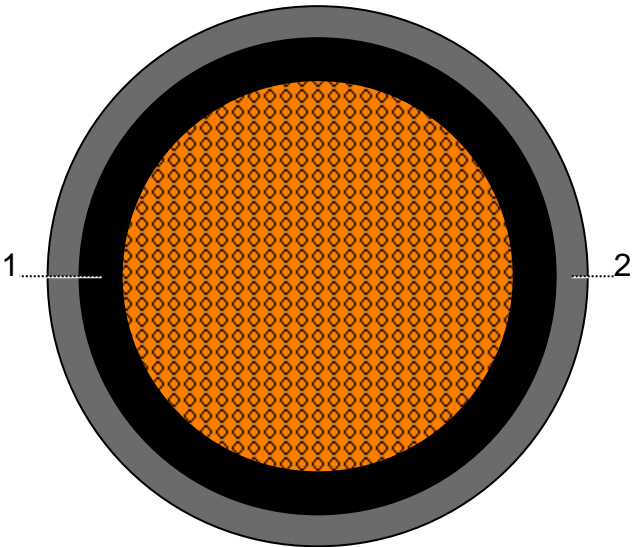
TECHNICAL DATA SHEET LOW VOLTAGE POWER CABLE

Cable Description:

Cu / PVC / PVC 1kV 1X300 mm² black 90 °C (Flex)
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	160 °C
Rated Voltage ' U _o / U '	kV	0.6 / 1.0
Number of Conductors x Cross-Section	mm ²	1 x 300
Conductor Material & Shape		Copper & Flexible Class 5 non-compacted Round Shape
Insulation Material		PVC
Conductor Nominal Insulation Thickness	mm	2.40
Insulation Color		BLACK
Outer Sheath Material		PVC
Colour of Outer Sheath		BLACK
Approximate Cable Overall Diameter	mm	31.7
Electrical Data:		
Max Conductor DC resistance @ 20 °C	ohms/km	0.0641
Max Conductor AC resistance @ 90 °C Two Cables	ohms/km	0.0853
Max Conductor AC resistance @ 90 °C Three Cables/Trefoil Formation	ohms/km	0.0864
Max Conductor Short Circuit Current @ 1 Second	kA	34.50
Current Carry Capacity		
Laid in air @ 40 °C Ambient Temperature		
Free In Flat Shape	A	740
Free In Trefoil Shape	A	583
In Pipes	A	411
Laid in Ground		
Direct Laid In Flat Shape	A	573
Direct Laid In Trefoil Shape	A	532
Laid In Duct	A	431
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	15.00
Maximum side wall pressure	kN/m	59.3
Minimum Bending Radius	mm	253
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	1.8 x 1.06
Gross Weight (Approximate without Lagging)	kg	3337

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Cable Marking:		
BAHRA CABLES CO. KSA 1 X 300 mm ² Cu / PVC / PVC (Flex) 600 / 1000 V IEC 60502-1 FR IEC 60332-1 Manufacturing Year - Meter marked		
Cable Drawing		
		
Description	Cu / PVC / PVC 1kV 1X300 mm ² black 90 °C (Flex)	Approx. Diameter
1	Core	
	Flexible Copper Conductor	23.10
	PVC insulated	27.90
2	PVC Outer Sheathing	31.67