

TECHNICAL DATA SHEET LOW VOLTAGE POWER CABLE

Cable Description:

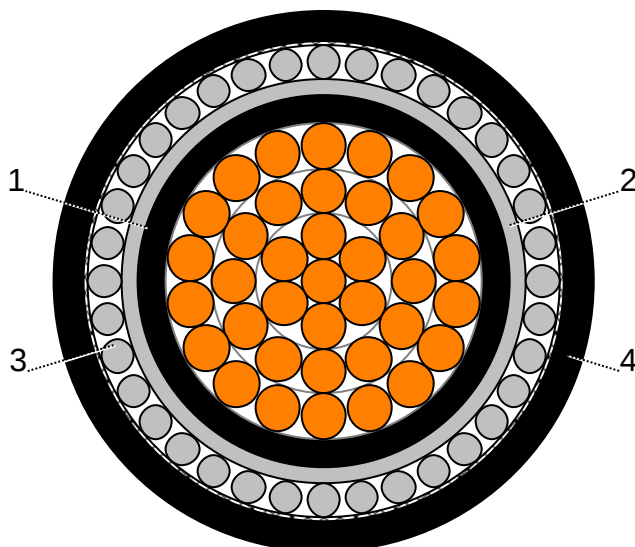
Cu / XLPE / AWA / PVC 1kV 1X185 mm² RM
IEC 60502-1 FR-IEC 60332-1

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	1 x 185
Conductor Material & Shape		Copper & Stranded Class 2 non-compacted Round Shape
Insulation Material		XLPE
Conductor Nominal Insulation Thickness	mm	1.60
Insulation Color		BLACK
Armour Material Type		Aluminum Wire
Outer Sheath Material		PVC - ST2
Colour of Outer Sheath		BLACK
Approximate Cable Overall Diameter	mm	29.5
Electrical Data:		
Max Conductor DC resistance @ 20 °C	ohms/km	0.0991
Max Conductor AC resistance @ 90 °C Two Cables	ohms/km	0.1282
Max Conductor AC resistance @ 90 °C Three Cables/Trefoil Formation	ohms/km	0.1287
Max Conductor Short Circuit Current @ 1 Second	kA	26.46
Current Carry Capacity		
Laid in air @ 40 °C Ambient Temperature		
Free In Flat Shape	A	534
Laid in Ground		
Direct Laid In Flat Shape	A	436
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	9.25
Maximum side wall pressure	kN/m	39.2
Minimum Bending Radius	mm	236
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	1.6 x 1.01
Gross Weight (Approximate without Lagging)	kg	2388

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Cable Marking:

BAHRA CABLES CO. KSA 1 X 185 mm² Cu / XLPE / AWA / PVC 600 / 1000 V IEC 60502-1 FR IEC 60332-1
Manufacturing Year - Meter marked

Cable Drawing


Description	Cu / XLPE / AWA / PVC 1kV 1X185 mm ² RM	Approx. Diameter
1	Core	
	Stranded Copper Conductor with round shape	17.21
	XLPE insulated	20.41
2	PVC Compound	22.17
3	Aluminum Wire Armour (AWA)	25.77
4	PVC Outer Sheathing	29.53