

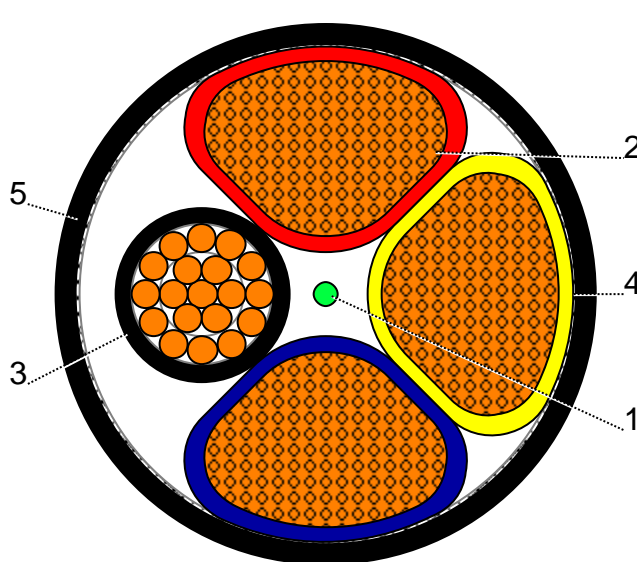
TECHNICAL DATA SHEET LOW VOLTAGE POWER CABLE

Cable Description:

Cu / XLPE / PVC 1kV 3X95 mm² SM+50 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 Phase Conductors x Cross-Section	mm ²	3 x 95
Phase Conductor Material & Shape		Copper & Stranded Class 2 Compacted Sector Shape
Number of Reduced Conductors x Cross-Section		1 x 50
Reduced Conductor Material & Shape		Copper & Stranded Class 2 non-compacted Round Shape
Insulation Material		XLPE
Phase Conductor Nominal Insulation Thickness	mm	1.10
Reduced Conductor Nominal Insulation Thickness	mm	1.00
Insulation Color		RED, YELLOW, BLUE, BLACK
Outer Sheath Material		PVC - ST2
Colour of Outer Sheath		BLACK
Approximate Cable Overall Diameter	mm	33.4
Electrical Data:		
Max Phase Conductor DC resistance @ 20 °C	ohms/km	0.1930
Max Phase Conductor AC resistance @ 90 °C	ohms/km	0.2476
Max Reduced Conductor DC resistance @ 20 °C	ohms/km	0.3870
Max Phase Conductor Short Circuit Current @ 1 Second	kA	13.59
Current Carry Capacity		
Laid in air @ 40 °C Ambient Temperature		
Free In Air	A	272
In Pipes	A	196
Laid in Ground		
Direct Laid	A	276
Laid In Duct	A	220
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	14.25
Maximum side wall pressure	kN/m	53.4
Minimum Bending Radius	mm	267
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	500
Drum Dimensions "Height x Width" (Approx.)	m	1.4 x 1.01
Gross Weight (Approximate without Lagging)	kg	1809

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Cable Marking:		
BAHRA CABLES CO. KSA 3 X 95 + 50 mm ² Cu / XLPE / PVC 600 / 1000 V IEC 60502-1 FR IEC 60332-1		
Manufacturing Year - Meter marked		
Cable Drawing		
		
Description	Cu / XLPE / PVC 1kV 3X95 mm ² SM+50 mm ² RM	Approx. Diameter
1	Non-Hygroscopic Filler	-
2	Core	
	Stranded Copper Conductor with sector shape	15.35 X 10.78
	XLPE insulated	17.55 X 12.98
3	Core	
	Stranded Copper Conductor with round shape	8.76
	XLPE insulated	10.76
4	Polymeric Tape	29.54
5	PVC Outer Sheathing	33.37