TECHNICAL DATA SHEET
LOW VOLTAGE POWER CABLE

Cable Description:

Cu / PVC / PVC 300 / 500 V 3X2.5 mm2 white (Flex)
IEC 60227-5 / C

Design and Construction Data:		
Reference Manufacturing Standards		IEC/BS EN 60228, IEC 60227-5
Max. Permissible Continuous Conductor Temp	°C	70
Max. Conductor Short Circuit Temp for 5 Seconds	°C	160 °C
Rated Voltage ' U_o / U '	kV	0.3 / 0.5
Number of Conductors x Cross-Section	mm^2	3 x 2.5
Conductor Material & Shape		Copper & Flexible Class 5 non-compacted Round Shape
Insulation Material		PVC
Conductor Nominal Insulation Thickness	mm	0.80
Insulation Color		BROWN, BLUE, YELLOW WITH GREEN STRIPES
Outer Sheath Material		PVC
Colour of Outer Sheath		WHITE
Approximate Cable Overall Diameter	mm	9.8
Electrical Data:		
Max Conductor DC resistance @ 20 °C	ohms/km	7.9800
Max Conductor AC resistance @ 70 °C	ohms/km	9.5481
Max Conductor Short Circuit Current @ 1 Second	kA	0.30
Current Carry Capacity		
Laid in air @ 40 °C Ambient Temperature		
Free In Air	A	22
In Pipes	A	19
Laid in Ground		
Direct Laid	A	27
Laid In Duct	A	23
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	0.38
Maximum side wall pressure	kN/m	4.8
Minimum Bending Radius	mm	78
The Cable shall meet all Test requirements of: IEC/BS EN 60228, IEC 60227-5		
Packing Data:		
Type		Coil
Length of Cable per Coil (± 2%)	m	92
Gross Weight (Approximate)	kg	15

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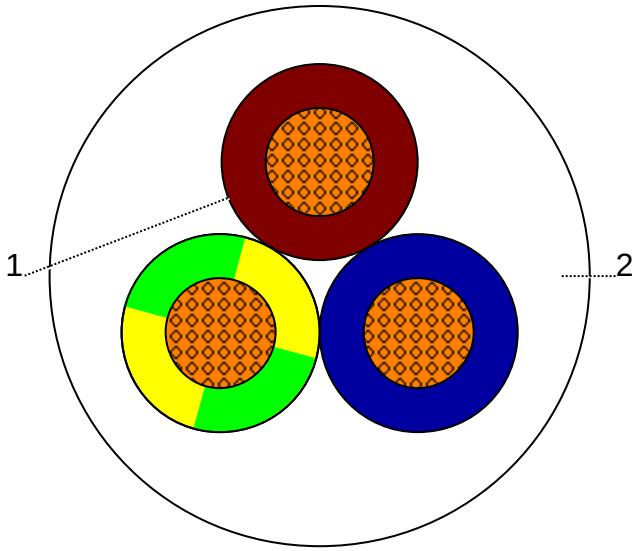
Cable Marking:
BAHRA CABLES CO. KSA 3 X 2.5 mm² Cu / PVC / PVC (Flex) 300 / 500 V H05VV-F BS EN50525-2-11 FR IEC 60332-1 (60227 IEC 53) Manufacturing Year

Cable Drawing



Description	Cu / PVC / PVC 300 / 500 V 3X2.5 mm2 white (Flex)	Approx. Diameter
1	Core	
	Flexible Copper Conductor	1.97
	PVC insulated	3.57
2	PVC Outer Sheathing	9.75