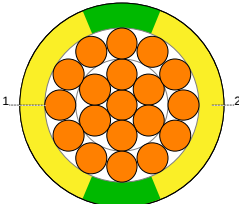


TECHNICAL DATA SHEET LOW VOLTAGE BUILDING WIRE

Cable Description:

Cu / PVC 450 / 750 V H07V2-R 90 °C 50 mm² RM G / Y

Design and Construction Data:		
Reference Manufacturing Standards		IEC 60228, IEC 60227-3, BS EN 50525-2-31
Max. Permissible Continuous Conductor Temp	°C	90
Max. Conductor Short Circuit Temp for 5 Seconds	°C	160 °C
Rated Voltage	V	450 / 750
Conductor Size	mm ²	50
Conductor Material & Shape		Copper & Stranded Class 2 non-compacted Round Shape
Insulation Material		PVC
Nominal Insulation Thickness	mm	1.40
Insulation Color		YELLOW WITH GREEN STRIPES
Approximate Wire Overall Diameter	mm	11.6
Electrical Data:		
Max Conductor DC resistance @ 20 °C	ohms/km	0.3870
Max Conductor AC resistance @ 90 °C (Two/Three) Conductors	ohms/km	0.4941 / 0.4944
Max Conductor Short Circuit Current @ 1 Second	KA	4.99
Current Carry Capacity @ 30 °C Ambient Temperature		
Enclosed in conduit ⁽¹⁾		
Two Insulated Conductors Single Phase ac or dc	A	178
Three or Four Insulated Conductors Three Phase ac	A	158
Clipped direct ⁽²⁾		
Two Insulated Conductors Single Phase ac or dc	A	215
Three or Four Insulated Conductors Three Phase ac	A	197
(1) Current carrying capacity based on IEE wiring regulation method B cables single ac or dc / three phase ac, enclosed in conduit on a wall or in trunking etc. at 30 °C ambient temperature". (2) Current carrying capacity based on IEE wiring regulation method C cables single ac or dc / three phase , clipped direct at 30 °C ambient temperature". * ref (IEE Wiring Regulations 17th edition Table 4D1A)		
The Cable shall meet all Test requirements of: IEC/BS EN 60228, IEC 60227-3, BS EN 50525-2-31, IEC 60332-1		
Packing Data:		
Drum Type		Non-Returnable
Length of Cable per drum (± 5%)	m	1000
Drum Dimensions "Height x Width" (Approx.)	m	0.9 x 0.71
Gross Weight (Approximate without Lagging)	kg	510.9
Cable Marking:		
BAHRA CABLES CO. KSA 50 MM ² CU/PVC 90 DEG C 450 / 750 V H07V2-R BS EN 50525-2-31 SASO 1320 TYPE 60227 IEC 01 FR IEC 60332-1 'Manufacturing Year Meter marking'		
Cable Drawing		
		
Description	Cu / PVC 450 / 750 V H07V2-R 90 °C 50 mm ² RM G / Y	Approx. Diameter
1	Copper conductor with round shape	8.76
2	PVC TI-3 Insulation	11.56