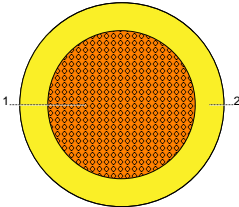


## TECHNICAL DATA SHEET LOW VOLTAGE BUILDING WIRE

Cable Description:

Cu / PVC 450 / 750 V H07V2-K 90 °C 16 mm<sup>2</sup> (Flex) YELLOW

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 <sup>2</sup>	16
Conductor Material & Shape		Copper & Flexible Class 5 Round Shape
Insulation Material		PVC
Nominal Insulation Thickness	mm	1.00
Insulation Color		YELLOW
Approximate Wire Overall Diameter	mm	7
Electrical Data:		
Max Conductor DC resistance @ 20 °C	ohms/km	1.2100
Max Conductor AC resistance @ 90 °C (Two/Three) Conductors	ohms/km	1.5431 / 1.5432
Max Conductor Short Circuit Current @ 1 Second	KA	1.6
Current Carry Capacity @ 30 °C Ambient Temperature		
Enclosed in conduit <sup>(1)</sup>		
Two Insulated Conductors Single Phase ac or dc	A	85
Three or Four Insulated Conductors Three Phase ac	A	76
Clipped direct <sup>(2)</sup>		
Two Insulated Conductors Single Phase ac or dc	A	97
Three or Four Insulated Conductors Three Phase ac	A	88
(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:		
Type		Coil
Length of Cable per Coil (± 2%)	m	92
Gross Weight (Approximate)	kg	15
Cable Marking:		
BAHRA CABLES CO. KSA 16 MM <sup>2</sup> CU/PVC (450 / 750 V) 90 DEG C SASO 1320- FLEX TYPE 60227 IEC 02, FR IEC 60332-1		
Cable Drawing		
		
Description	Cu / PVC 450 / 750 V H07V2-K 90 °C 16 mm <sup>2</sup> (Flex) YELLOW	Approx. Diameter
1	Copper conductor with round shape	5.2
2	PVC TI-3 Insulation	7.2