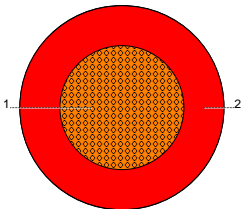


## TECHNICAL DATA SHEET LOW VOLTAGE BUILDING WIRE

Cable Description:

Cu / PVC 450 / 750 V H07V2-R 90 °C 4 mm<sup>2</sup> RM RED

| 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>   | 4   |
| Conductor Material & Shape  |   | Copper & Stranded Class 2 non-compacted Round Shape |
| Insulation Material   |   | PVC   |
| Nominal Insulation Thickness  | mm  | 0.80  |
| Insulation Color  |   | RED   |
| Approximate Wire Overall Diameter   | mm  | 4.1   |
| Electrical Data:  |   |   |
| Max Conductor DC resistance @ 20 °C   | ohms/km   | 4.6100  |
| Max Conductor AC resistance @ 90 °C (Two/Three) Conductors  | ohms/km   | 5.8782 / 5.8783                                     |
| Max Conductor Short Circuit Current @ 1 Second  | KA  | 0.4   |
| Current Carry Capacity @ 30 °C Ambient Temperature  |   |   |
| Enclosed in conduit <sup>(1)</sup>  |   |   |
| Two Insulated Conductors Single Phase ac or dc  | A   | 37  |
| Three or Four Insulated Conductors Three Phase ac   | A   | 33  |
| Clipped direct <sup>(2)</sup>   |   |   |
| Two Insulated Conductors Single Phase ac or dc  | A   | 43  |
| Three or Four Insulated Conductors Three Phase ac   | A   | 39  |
| (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".<br>(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".<br>* 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  |
| Net Weight (Approximate)  | kg  | 4.4   |
| Cable Marking:  |   |   |
| BAHRA CABLES CO. KSA 4 MM <sup>2</sup> 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  |   |   |
| Cable Drawing   |   |   |
|    |   |   |
| Description   | Cu / PVC 450 / 750 V H07V2-R 90 °C 4 mm <sup>2</sup> RM RED | Approx. Diameter                                    |
| 1   | Copper conductor with round shape                           | 2.5   |
| 2   | PVC TI-3 Insulation   | 4.1   |