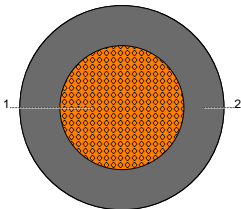


## TECHNICAL DATA SHEET LOW VOLTAGE BUILDING WIRE

Cable Description:

Cu / LS0H-XL 450 / 750 V H07Z-R 4 mm<sup>2</sup> RM BLACK

| Design and Construction Data:   |  |   |
|---|--|---|
| Reference Manufacturing Standards   |  | IEC 60228, BS EN 50525-3-41                         |
| Max. Permissible Continuous Conductor Temp  | °C   | 90  |
| Max. Conductor Short Circuit Temp for 5 Seconds   | °C   | 250   |
| 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   |  | LS0H-XL   |
| Nominal Insulation Thickness  | mm   | 0.80  |
| Insulation Color  |  | BLACK   |
| 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   | 0.57  |
| Current Carry Capacity @ 30 °C Ambient Temperature  |  |   |
| Enclosed in conduit <sup>(1)</sup>  |  |   |
| Two Insulated Conductors Single Phase ac or dc  | A  | 42  |
| Three or Four Insulated Conductors Three Phase ac   | A  | 37  |
| Clipped direct <sup>(2)</sup>   |  |   |
| Two Insulated Conductors Single Phase ac or dc  | A  | 46  |
| Three or Four Insulated Conductors Three Phase ac   | A  | 41  |
| (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 4E1A) |  |   |
| The Cable shall meet all Test requirements of: IEC/BS EN 60228, BS EN 50525-3-41, Formally BS 7211:1998 which is superseded, IEC 60332-1, IEC 60754-1, IEC 61034  |  |   |
| Packing Data:   |  |   |
| Type  |  | Coil  |
| Length of Cable per Coil (± 2%)   | m  | 92  |
| Net Weight (Approximate)  | kg   | 4.3   |
| Cable Marking:  |  |   |
| BAHRA CABLES CO. KSA 4 MM <sup>2</sup> CU/LS0H-XL 90 DEG C 450/750 V H07Z-R BS EN 50525-3-41 BASEC  |  |   |
| Cable Drawing   |  |   |
|    |  |   |
| Description   | Cu / LS0H-XL 450 / 750 V H07Z-R 4 mm <sup>2</sup> RM BLACK | Approx. Diameter                                    |
| 1   | Copper conductor with round shape                          | 2.5   |
| 2   | LS0H-XL Insulation   | 4.1   |