







## **BMS CABLE**

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| Parti             | iculars   | 6C X 1.5 Sqmm  |  |  |
|-------------------|---|--|--|--|
| Name              | e of Manufacturer   | Polycab India Ltd  |  |  |
| Туре              | of Cable  | Screened BMS Cable   |  |  |
| No of             | Elements X Size in mm² (No X Sq.mm)                           | 6C X 1.5   |  |  |
| Volta             | ge Grade (Volts)  | 300/500  |  |  |
| Appli             | cable standard (S)  | Generally as per BSEN 50288-7  |  |  |
| Con               | ductor  |  |  |  |
| a)                | Material  | Plain annealed high conductivity Flexible copper conductor as per Class 5 of IEC:60228 |  |  |
| b)                | Maximum d.c. resistance of conductor at 20° C $(\Omega/km)$   | 13.3   |  |  |
| c)                | Shape of conductor  | Bunched Circular   |  |  |
| Insulation        |   |  |  |  |
| a)                | Material  | Extruded PVC Type 'A'  |  |  |
| b)                | Minimum Thickness (mm)  | 0.44   |  |  |
| c)                | Core Identification   | All cores grey with number printing  |  |  |
| Collective Screen |   |  |  |  |
| a)                | Material  | Aluminium mylar tape   |  |  |
| b)                | Nominal Thickness (mm)  | 0.018  |  |  |
| c)                | Material of Drain Wire  | Flexible ATC   |  |  |
| d)                | Size of Drain Wire (Sq.mm)                                    | 0.5 mm <sup>2</sup> (16/0.2 mm)  |  |  |
| Oute              | er sheath   |  |  |  |
| a)                | Material  | Extruded FR-LSH PVC Type ST1   |  |  |
| b)                | Nominal thickness (mm)  | 1.00   |  |  |
| c)                | Colour Of Outersheath   | Blue   |  |  |
| Appro             | oximate Overall diameter of cable (mm)                        | 10.3 ± 2.0   |  |  |
|                   | mum conductor temperature under normal ating conditions (°C)  | 70   |  |  |
|                   | mum conductor temperature at the nation of short circuit (°C) | 160  |  |  |
| Minir             | num bending radius (mm)                                       | 12 times Overall diameter  |  |  |





| Elec              | Electrical Parameters  |   |  |  |
|-------------------|--|---|--|--|
| a)                | Max. a.c. resistance of conductor at operating temperature ( $\Omega/km$ ) | 15.9  |  |  |
| b)                | Mutual capacitance (nf/km)   | <250  |  |  |
| c)                | Insulation resistance (M $\Omega$ /km)                                     | 10  |  |  |
| d)                | Inductance to resistance ratio (L/R) ( $\mu$ H/ $\Omega$ )                 | <40   |  |  |
| e)                | Dielectric strength for 1 minute (H.V Test) (kV)                           | 2.0   |  |  |
|                   | tensile strength for Cables pulled with ing (Newtons)                      | $9 \times D^2$ , D is the cable OD in mm  |  |  |
| FR-LSH PROPERTIES |  |   |  |  |
| a)                | Oxygen Index   | Min. 29% as per ASTM D- 2863  |  |  |
| b)                | Temperature Index  | Min. 250 Deg.C as per ASTM D- 2863  |  |  |
| c)                | Smoke Density Rating   | Max. 60% as per ASTM D- 2843  |  |  |
| d)                | Acid Gas Generation  | Max. 20% as per IEC- 754- 1   |  |  |
| e)                | Flammability Test  | As per IEC:60332-1  |  |  |
| Printi            | ng   | YEAR POLYCAB 300/500 VOLTS GRADE FR-LSH No of Core x Sqmm SCREENED WITH SEQUENTIAL MARKING AT EVERY ONE METER |  |  |

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