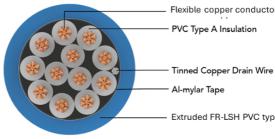


CABLES





- Flexible copper conductor

Extruded FR-LSH PVC type ST1 Outer sheath

BMS CABLE

Document ID: TE/QMS/F/02

DESIGN CODE : ICBS04CYUAYL007C1.5S

| Particulars | 7C X 1.5 Sqmm | |
|--|--|--|
| Name of Manufacturer | Polycab India Ltd | |
| Type of Cable | Screened BMS Cable | |
| No of Elements X Size in mm² (No X Sq.mm) | 7C X 1.5 | |
| Voltage Grade (Volts) | 300/500 | |
| Applicable standard (S) | Generally as per BSEN 50288-7 | |
| Conductor | | |
| a) Material | Plain annealed high conductivity Flexible copper conductor as per Class 5 of IEC:60228 | |
| Maximum d.c. resistance of conductor at 20° C (Ω/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 mm² (16/0.2 mm) | |
| Outer sheath | | |
| a) Material | Extruded FR-LSH PVC Type ST1 | |
| b) Nominal thickness (mm) | 1.00 | |
| c) Colour Of Outersheath | Blue | |
| Approximate Overall diameter of cable (mm) | 10.3 ± 2.0 | |
| Maximum conductor temperature under normal operating conditions (°C) | 70 | |
| Maximum conductor temperature at the termination of short circuit (°C) | 160 | |
| Minimum bending radius (mm) | 12 times Overall diameter | |

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| Electrical Parameters | | |
|---|--|---|
| a) | Max. a.c. resistance of conductor at operating temperature (Ω/km) | 15.9 |
| b) | Mutual capacitance (nf/km) | <250 |
| c) | Insulation resistance (MΩ/km) | 10 |
| d) | Inductance to resistance ratio (L/R) (μ H/ Ω) | <40 |
| e) | Dielectric strength for 1 minute (H.V Test) (kV) | 2.0 |
| Max. tensile strength for Cables pulled with stocking (Newtons) | | 9 x 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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Note:-The values given above are subject to tolerances as per the relevant standards

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