



BMS CABLE

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DESIGN CODE : ICBS04CYUAYL002C001S

Particulars	2C X 1Sqmm
Name of Manufacturer	Polycab India Ltd
Type of Cable	Screened BMS Cable
No of Elements X Size in mm ² (No X Sq.mm)	2C X 1
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
b) Maximum d.c. resistance of conductor at 20° C (Ω/km)	19.5
c) Shape of conductor	Bunched Circular
Insulation	
a) Material	Extruded PVC Type 'A'
b) Minimum Thickness (mm)	0.44
c) Core Identification	Red & Black
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 ² (16/0.2 mm)
Outer sheath	
a) Material	Extruded FR-LSH PVC Type ST1
b) Nominal thickness (mm)	0.88
c) Colour Of Outersheath	Blue
Approximate Overall diameter of cable (mm)	6.9 ± 1.0
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

Electrical Parameters

a) Max. a.c. resistance of conductor at operating temperature (Ω/km)	23.3
b) Mutual capacitance (nf/km)	<250
c) Insulation resistance ($M\Omega/\text{km}$)	10
d) Inductance to resistance ratio (L/R) ($\mu\text{H}/\Omega$)	<25
e) Dielectric strength for 1 minute (H.V Test) (kV)	2.0
Max. tensile strength for Cables pulled with stocking (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
Printing	YEAR POLYCAB 300/500 VOLTS GRADE FR-LSH No of Core x Sqmm SCREENED WITH SEQUENTIAL MARKING AT EVERY ONE METER..