



BMS CABLE

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DESIGN CODE : ICBS04CYUAYL003C.75S

Particulars		3C X 0.75 Sqmm
Name of Manufacturer		Polycab India Ltd
Type of Cable		Screened BMS Cable
No of Elements X Size in mm ² (No X Sq.mm)		3C X 0.75
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)		26
c) Shape of conductor		Bunched Circular
Insulation		
a) Material		Extruded PVC Type 'A'
b) Minimum Thickness (mm)		0.44
c) Core Identification		Red,Black & Yellow-Green
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)		0.90
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)	31.1
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..