







BMS CABLE

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Parti	culars	2C X 0.5 Sqmm		
Name	of Manufacturer	Polycab India Ltd		
Type	of Cable	Screened BMS Cable		
No of	Elements X Size in mm² (No X Sq.mm)	2C X 0.5		
Volta	ge Grade (Volts)	300/500		
Appli	cable 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)	39.0		
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 mm² (16/0.2 mm)		
Oute	Outer sheath			
a)	Material	Extruded FR-LSH PVC Type ST1		
b)	Nominal thickness (mm)	0.85		
c)	Colour Of Outersheath	Blue		
Appro	oximate Overall diameter of cable (mm)	6.0 ± 1.0		
	num conductor temperature under normal ting conditions (°C)	70		
	num conductor temperature at the nation of short circuit (°C)	160		
Minin	num bending radius (mm)	12 times Overall diameter		





Elec	Electrical Parameters			
a)	Max. a.c. resistance of conductor at operating temperature (Ω/km)	46.7		
b)	Mutual capacitance (nf/km)	<250		
c)	Insulation resistance (M Ω /km)	10		
d)	Inductance to resistance ratio (L/R) ($\mu H/\Omega$)	<25		
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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