







BMS CABLE

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Parti	culars	16C 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)	16C X 1.5			
Volta	ge Grade (Volts)	300/500			
Appli	cable standard (S)	Generally as per BSEN 50288-7			
Cond	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)	13.3			
c)	Shape of conductor	Bunched Circular			
Insu	Insulation				
a)	Material	Extruded PVC Type 'A'			
b)	Minimum Thickness (mm)	0.44			
c)	Core Identification	All cores grey with number printing			
Colle	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)			
Oute	Outer sheath				
a)	Material	Extruded FR-LSH PVC Type ST1			
b)	Nominal thickness (mm)	1.17			
c)	Colour Of Outersheath	Blue			
Appro	oximate Overall diameter of cable (mm)	15.2 ± 2.0			
	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)	15.9			
b)	Mutual capacitance (nf/km)	<250			
c)	Insulation resistance (M Ω /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			
	tensile strength for Cables pulled with ing (Newtons)	$9 \times D^2$, D is the cable OD in mm			
FR-L	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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