

CABLES





Flexible Copper Conductor
PVC Type A Insulation
Drain wire
Al-mylar tape
Extruded FRLSH PVC type ST1 Outer sheath

BMS CABLE

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DESIGN CODE : ICBS04CYUAYL003C0.5S

Particulars	3C X 0.5 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 0.5	
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	
 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 & 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 mm² (16/0.2 mm)	
Outer sheath		
a) Material	Extruded FR-LSH PVC Type ST1	
b) Nominal thickness (mm)	0.87	
c) Colour Of Outersheath	Blue	
Approximate Overall diameter of cable (mm)	6.4 ± 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	

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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 (MΩ/km)	10
d)	Inductance to resistance ratio (L/R) (μ H/ Ω)	<25
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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