

CABLES





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

BMS CABLE

Document ID: TE/QMS/F/02

DESIGN CODE : ICBS04CYUAYL004C0.5S

Particulars		4C 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)		4C 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 (Ω/km)	. resistance of conductor at 20° C	39.0	
c) Shape of cond	luctor	Bunched Circular	
Insulation			
a) Material		Extruded PVC Type 'A'	
b) Minimum Thi	ckness (mm)	0.44	
c) Core Identifica	ation	Red, Yellow, Blue & Yellow-Green	
Collective Screen			
a) Material		Aluminium mylar tape	
b) Nominal Thicl	kness (mm)	0.018	
c) Material of Dr	ain Wire	Flexible ATC	
d) Size of Drain V	Wire (Sq.mm)	0.5 mm² (16/0.2 mm)	
Outer sheath			
a) Material		Extruded FR-LSH PVC Type ST1	
b) Nominal thick	kness (mm)	0.88	
c) Colour Of Out	ersheath	Blue	
Approximate Overall diameter of cable (mm)		7 ± 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	
Printing		YEAR POLYCAB 300/500 VOLTS GRADE FR-LSH No of Core x Sqmm SCREENED WITH SEQUENTIAL MARKING AT EVERY ONE METER	

Rev. No.: 00

Issued date:20/04/2022

Note:-The values given above are subject to tolerances as per the relevant standards

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