







## **BMS CABLE**

## Document ID: TE/QMS/F/02 DESIGN CODE : ICBS04CYUAYL006C0.5S

Parti	culars	6C 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)	6C X 0.5		
Volta	ge Grade (Volts)	300/500		
Appli	cable standard (S)	Generally as per BSEN 50288-7		
Cone	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 $(\Omega/km)$	39.0		
c)	Shape of conductor	Bunched Circular		
Insulation				
a)	Material	Extruded PVC Type 'A'		
b)	Minimum Thickness (mm)	0.44		
c)	Core Identification	All cores grey with number printing		
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 <sup>2</sup> (16/0.2 mm)		
Outer sheath				
a)	Material	Extruded FR-LSH PVC Type ST1		
b)	Nominal thickness (mm)	0.93		
c)	Colour Of Outersheath	Blue		
Appro	oximate Overall diameter of cable (mm)	8.2 ± 1.0		
	mum conductor temperature under normal ting conditions (°C)	70		
	mum conductor temperature at the nation of short circuit (°C)	160		
Minir	num bending radius (mm)	12 times Overall diameter		





Elec	Electrical Parameters			
a)	Max. a.c. resistance of conductor at operating temperature ( $\Omega/km$ )	46.7		
b)	Mutual capacitance (nf/km)	<250		
c)	Insulation resistance (M $\Omega$ /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		

Rev. No.: 00 Issued date:20/04/2022

www.polycab.com | Toll Free No - 1800 267 0008 | Email: enquiry@polycab.com