



Technical Data Sheet of Cables

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CUSTOMER - DEBAK

PROJECT -

Sr.No.	Description	Unit	1C X	1C X	1C X	1C X	1C X	1C X 4	1C X 6	1C X 10	1C X 16	1C X 25	1C X 35	1C X 50	1C X 70	1C X 95	
			0.5	0.75	1.0	1.5	2.5										
			Sq. mm.	Sq. mm.	Sq. mm.	Sq. mm.	Sq. mm.	Sq. mm.	Sq. mm.	Sq. mm.	Sq. mm.	Sq. mm.	Sq. mm.	Sq. mm.	Sq. mm.	Sq. mm.	Sq. mm.
1	Manufacturer Name		Polycab India Limited														
2	Brand Name		POLYCAB														
3	Rated Voltage		1100V														
4	CONDUCTOR																
a)	Material		Plain annealed high conductivity Flexible copper conductor as per Class 5 of IS 8130/84 latest														
b)	Conductor Size	Sq.mm	0.50	0.75	1.0	1.5	2.5	4	6	10	16	25	35	50	70	95	
c)	Max. D.C Cond. Resistance at 20 Deg.C	Ohm/km	39.0	26.0	19.5	13.3	7.98	4.95	3.30	1.91	1.21	0.780	0.554	0.386	0.272	0.206	
5	INSULATION																
a)	Material		FR-LSH Extruded PVC Type 'D'														
b)	Thickness - Nominal	mm	0.6	0.6	0.6	0.6	0.7	0.8	0.8	1.0	1.0	1.2	1.2	1.4	1.4	1.6	
c)	Core Identification		Red Yellow Blue Black Green Yellow Yellow/Green														
d)	FR-LSH PROPERTIES																
	Oxygen Index		Min. 29% as per ASTM D- 2863														
	Temperature Index		Min. 250 Deg.C as per ASTM D- 2863														
	Smoke Density Rating		Max. 60% as per ASTM D- 2843														
	Acid Gas Generation		Max. 20% as per IEC- 754- 1														
6	Maximum Overall Diameter	mm	2.6	2.8	3	3.4	4.1	4.8	5.3	7.0	8.1	10.2	11.7	13.9	16.0	18.2	
7	Current rating	Amps	4	7	12	16	22	29	37	51	68	86	110	145	215	260	
8	Max. conductor temp. under normal operating conditions	°C	70°C														
9	Max conductor temp at the termination of short circuit	°C	160°C														
10	Standards to which the cables confirm		IS 694/2010, IS 8130/2013 etc. with latest up to date amendments														
11	Recommended minimum bending radius in mm		8 times the overall diameter of the cable														
12	Max. Tensile strength when pulled with pulling eye	Kg	3	4	5	8	13	20	31	51	82	127	178	255	357	484	
13	Printing		POLYCAB 1100 V, SQ.MM FR-LSH														

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

TDS NO. - 190531-1738

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