



## FR-LSH MULTICORE FLEXIBLE CABLE

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**DESIGN CODE : LDIS09CYUAYL016C0.5S**

Particulars		16 Core X 0.5 Sq.mm
Name of Manufacturer		Polycab India Ltd
Type of cable		YY
Voltage Grade V		1100
No of cores X size in sq.mm.		16 Core X 0.5 Sq.mm.
Conductor		
a) Material		Plain annealed high conductivity flexible copper conductor as per Class 5 of IS 8130/2013, latest
b) Max. d.c. resistance of conductor at 20° C (ohm/km)		39
c) Shape of the conductor		Flexible Circular
Insulation		
a) Material		PVC TYPE D as per IS 5831/1984, Latest
b) Nominal thickness (mm)		0.6
c) Core identification		As per Annexure-I
Outer Sheath		
a) Material		Extruded FR-LSH PVC Type ST3 as per IS 5831/1984, Latest
b) Nominal thickness (mm)		1.1
c) Colour of outer sheath		Black
Approx. overall diameter of the cable in mm		12.1+/-2
Maximum conductor temperature under normal operating condition		70°C
Maximum conductor temperature at the terminal of short circuit		160°C
Electrical Parameters		
a) Max. a.c. resistance of conductor at operating temperature (Ohm/km)		46.66
b) High voltage test (kV)		3
Continuous Current carrying capacities :-		
a) In Air at 40°C (A)		3.6
Applicable Standard		IS 8130/2013, IS 5831/1984, IS 694/2010, etc. with latest up to date updates
Minimum bending radius		8 times Overall diameter

## 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 60754-1
Standard packing length	100 meter coil, 300 meter coil, 500 meter, 1000 meter (Higher quantity in wooden drum)
Printing	POLYCAB FR-LSH <SIZE SQ.MM> 1100V IS : 694 <ISI LOGO> CM/L - 2832257, HALOL - <CE MARKING>

Annexure-1			
Colour Scheme for Multicore flexible cable 6 core and above			
Sr. No	Printing No.	Basic Colour	Stripe
1		Yellow	Green
2	1	Black	-
3	2	White	-
4	3	Red	-
5	4	Green	-
6	5	Orange	-
7	6	Blue	-
8	7	White	Black
9	8	Red	Black
10	9	Green	Black
11	10	Orange	Black
12	11	Blue	Black
13	12	Black	White
14	13	Red	White
15	14	Green	White
16	15	Blue	White
17	16	Black	Red
18	17	White	Red
19	18	Orange	Red
20	19	Blue	Red
21	20	Red	Green
22	21	Orange	Green
23	22	Black	Green
24	23	Blue	Green
25	24	White	Green
26	25	Black	Orange