



## FR-LSH MULTICORE FLEXIBLE CABLE

**Document ID: TE/QMS/F/02**

**DESIGN CODE : LDIS09CYUAYL004C050S**

Particulars	4 Core X 50 Sq.mm
Name of Manufacturer	Polycab India Ltd
Type of cable	YY
Voltage Grade V	1100
No of cores X size in sq.mm.	4 Core X 50 Sq.mm.
<b>Conductor</b>	
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)	0.386
c) Shape of the conductor	Flexible Circular
<b>Insulation</b>	
a) Material	PVC TYPE D as per IS 5831/1984, Latest
b) Nominal thickness (mm)	1.4
c) Core identification	Red, Yellow, Blue and Green
<b>Outer Sheath</b>	
a) Material	Extruded FR-LSH PVC Type ST3 as per IS 5831/1984, Latest
b) Nominal thickness (mm)	2
c) Colour of outer sheath	Black
Approx. overall diameter of the cable in mm	32.7+/-2
Maximum conductor temperature under normal operating condition	70°C
Maximum conductor temperature at the terminal of short circuit	160°C
<b>Electrical Parameters</b>	
a) Max. a.c. resistance of conductor at operating temperature (Ohm/KM)	0.462
b) High voltage test (kV)	3
<b>Continuous Current carrying capacities :-</b>	
a) In Air at 40°C (A)	129
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 ratting	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 wodden drum)
Printing	POLYCAB FR-LSH<SIZE SQ.MM> 1100V IS : 694 <ISI LOGO> CM/L - 2832257, HALOL - <CE MARKING>