



## FR SINGLE CORE FLEXIBLE CABLE

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

**DESIGN CODE : LDIS09CYUAYF001C050S**

Particulars	1 Core X 50 Sq.mm
Name of Manufacturer	Polycab India Ltd
Type of cable	FR
Voltage Grade (Volts)	1100
No of cores X size in Sq.mm.	1 Core X 50 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)	0.386
c) Shape of the conductor	Flexible Circular
Insulation	
a) Material	FR PVC TYPE D as per IS 5831/1984, Latest
b) Nominal thickness (mm)	1.4
c) Core identification	Red / Black / Blue / Yellow / White / Grey
Approx. overall diameter of the cable in mm	11.9
Maximum conductor temperature under normal operating condition	70° C
Maximum conductor temperature at the terminal of short circuit	160° C
High voltage test	3kv
Continuous Current carrying capacities :-	
a) In Air at 40° C (A)	165
Applicable Standard	IS 8130/2013, IS 5831/1984, IS 694/2010, etc. with latest up to date updates
Minimum bending radius	6 times Overall diameter
FR Properties	
a) Oxygen Index	Min. 29% as per ASTM D-2863
b) Temperature Index	Min. 250 Deg. C as per ASTM D-2863
Standard packing length	100 meter coil, 300 meter coil, 500 meter, 1000 meter (Higher quantity in wodden drum)
Printing	POLYCAB FR <SIZE SQ.MM> 1100V IS : 694 <ISI LOGO> CM/L - 2832257, HALOL - <CE MARKING>

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

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