



Images not to scale. Follow table for dimensions

APPLICATION

POLYCAB FR-LF wire is suitable for use where high flexibility is of prime importance. This is also suitable for indoor installation in industries, household appliances and building electrification.

CHARACTERISTICS

Voltage Rating
1100 V

Operation Temperature
Fixed: -15°C to 70°C

Bending Radii
Fixed installation >6 x Overall Diameter
Occasional >4 x Overall Diameter

CONSTRUCTION

- Annealed stranded or bunched copper conductor as per IS 8130, class 2 or class 5
- Insulated by PVC Type D with FR-LF compound to IS 5831.

Core Identification
Red/Yellow/Blue/Black/Green/any customized colour

Electrical Property

- High insulation resistance
- Higher current carrying capacity
- Electrical energy saving

Test Voltage
3000 V AC at (20±5) °C

Mechanical & Physical Properties

- High Flexibility
- High surface lubrication suitable to conduit wiring
- Free from hazardous substances
- Resistant to Termite & Rodent
- Resistant to moisture for use in wet area
- High abrasion resistance
- Resistant to Acid & Alkali

OUTSTANDING FEATURES

- Optimized current carrying capacity.
- Fire retardant and safe for protection
- Low carbon emission
- Low volatile organic content – less contamination
- High conductivity – Energy saving

STANDARD FOLLOWS

IS 8130:2013
IS 5831:1984
IS 694:2010

COMPLIANCE

Conductor resistance test	IS 8130
Flammability	IEC 60332-1
Oxygen index	ASTM D 2863
Temperature index	IEC 60332-1

OUR ACCREDITATIONS



APPROVAL



WEIGHT AND DIMENSION DATA:

Product code	Nominal cross-sectional area	Class of conductor	No. of wire/wire dia.	Nominal insulation thickness	Overall dia. (Approx.)
	mm ²		No./mm		
LDIS09CYUAYF001C.75S	0.75	5	24/0.21	0.6	2.25
LDIS09CYUAYF001C001S	1	5	32/0.21	0.6	2.4
LDIS09CYUAYF001C1.5S	1.5	5	30/0.26	0.6	2.86
LDIS09CYUAYF001C2.5S	2.5	5	50/0.26	0.7	3.48
LDIS09CYUAYF001C004S	4	5	56/0.31	0.8	3.95
LDIS09CYUAYF001C006S	6	5	84/0.31	0.8	4.48

Electrical Characteristics

Current carrying capacity and Max. DC conductor resistance.

Nominal cross sectional area	Class of conductor	Current carrying capacity, 2 cables in single phase		Maximum DC conductor resistance at 20°C
		Reference Method B (enclosed in conduit on a wall or in trunking etc.)	Reference Method C (clipped direct)	
mm ²		Amp.	Amp.	Ω/km
0.75	5	7	7.5	26
1	5	11	12	19.5
1.5	5	14	16	13.3
2.5	5	19	22	7.98
4	5	26	29	4.95
6	5	31	37	3.3

*Current carrying capacity values are in accordance with IS 3961 (Part 5), Ambient temperature 40°C, Operating temperature 70°C

Packaging

180/200/300 Mtr pouch pack