



Images not to scale. Follow table for dimensions

APPLICATION

POLYCABOPTIMA+ 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

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

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

Electrical Property

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

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

Bending Radii

Fixed installation >6 x Overall Diameter

Occasional >4 x Overall Diameter

Test Voltage

3000 V AC at (20±5) °C

COMPLIANCE

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

OUR ACCREDITATIONS



APPROVAL



Product code	Nominal cross-sectional area	Class of conductor	No. of wire/wire dia.	Nominal insulation thickness	Overall dia. (Approx.)
	mm ²		No./mm		mm
LDIS09CYUAYF001C.75S	0.75	5	24/0.21	0.6	2.25
LDIS09CYUAYF001C001S	1	2	14/0.31	0.6	2.44
LDIS09CYUAYF001C1.5S	1.5	2	22/0.31	0.7	2.9
LDIS09CYUAYF001C2.5S	2.5	2	36/0.31	0.8	3.52
LDIS09CYUAYF001C004S	4	5	56/0.31	0.8	3.95
LDIS09CYUAYF001C006S	6	5	84/0.31	0.8	4.48

The above values are approximate and subject to standard manufacturing tolerance

Electrical Characteristics

Current carrying capacity and max. DC 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	2	11.6	12.6	18.1
1.5	2	14.7	16.8	12.1
2.5	2	20	23.1	7.41
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

90 Mtr in mono and master carton