



Images not to scale. Follow table for dimensions

APPLICATION

POLYCABMAXIMA+ Green wire is highly eco-friendly & suitable for use in places where extra fire safety and heat resistance is required along with high flexibility. This is also suitable for indoor installation in industries, household appliances and building electrification.

OUTSTANDING FEATURES

- Higher current carrying capacity.
- High fire retardancy
- Low emission of toxic gases
- Low carbon emission
- Low volatile organic content ensures less contamination
- High conductivity electrolytic copper conductor
- Eco friendly

CHARACTERISTICS

Voltage Rating
1100 V

Operation Temperature
Fixed: -15°C to 85°C

STANDARD FOLLOWS

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

CONSTRUCTION

- Annealed stranded or bunched copper conductor as per IS 8130, class 2 or class 5
- Insulated by specially developed in-house compound.

Bending Radius

Fixed installation 6 x Overall Diameter
Occasional 4 x Overall Diameter

Test Voltage

3000 V AC at room temperature

Core Identification

Red/Yellow/Blue/Black/Green/any customize colour

Product name	Packing length (m)	Brand name
Industrial wire	90	POLYCABMAXIMA+

COMPLIANCE

Conductor resistance test	IS 8130
Flammability	IEC 60332-1
Oxygen index	ASTM D 2863
Temperature index	ASTM D 2863
Halogen acid gas generation	IEC 60754-1
Smoke density	ASTM D 2843-19

Mechanical & Physical Properties

- High Flexibility
- Free from hazardous substances
- Resistant to Termite & Rodent
- Resistant to moisture for use in wet area
- Resistant heat deformation
- Improved life expectancy
- Resistant to Acid & Alkali

Electrical Property

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

OUR ACCREDITATIONS



APPROVAL



Document No.: 00575.Rev No.: 00 Date: 01-07-2024 / We reserve the rights to make technical changes.

Product Code	Nominal cross sectional area	Class of conductor	No. of wire/wire dia.	Nominal insulation thickness	Overall dia. (Approx.)
	mm ²		No./mm		
LDIS09CYUAYL001C.75S	0.75	5	24/0.21	0.6	2.3
LDIS09CYUAYL001C001S	1	2	14/0.31	0.6	2.5
LDIS09CYUAYL001C1.5S	1.5	2	22/0.31	0.7	2.9
LDIS09CYUAYL001C2.5S	2.5	2	36/0.31	0.8	3.5
LDIS09CYUAYL001C004S	4	5	56/0.31	0.8	4.0
LDIS09CYUAYL001C006S	6	5	84/0.31	0.8	4.5

Note: The above values are approximate and subject to standard manufacturing tolerance

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	8.0	8.54	26
1	2	13.5	14.64	18.1
1.5	2	17.1	19.52	12.1
2.5	2	23.2	26.84	7.41
4	5	31.2	34.8	4.95
6	5	37.2	44.4	3.3

*The ambient temperature is 40°C. Conductor operating temperature 85°C.

De-rating factor:

De rating factor for various operating temperatures.

Air Temperature	35°C	40°C	45°C	50°C	55°C	60°C	65°C	70°C	75°C	80°C
De-Rating Factor	1.05	1	0.94	0.88	0.82	0.75	0.67	0.58	0.47	0.33