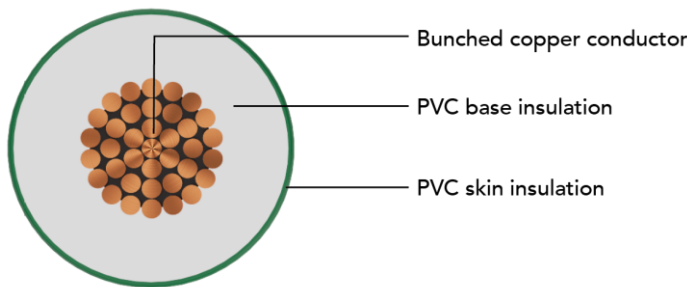


POLYCAB HR-FR-LSH-GREEN WIRE

Building wire, 1100 V AC



Salient Features:

- ✓ Higher current carrying capacity.
- ✓ High fire retardancy
- ✓ Low emission of toxic gases
- ✓ Low carbon emission, eco healthy
- ✓ Low volatile organic content – less contamination
- ✓ High conductivity electrolytic copper conductor

Application

POLYCAB HR-FR-LSH 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.

Voltage Rating

1100 V

Operation Temperature

Fixed: -15°C to 85°C

Construction

- Annealed stranded or bunched copper conductor as per IS 8130, class 2 or class 5
- Insulated by PVC Type C with FR-LSH to IS 5831

Core Identification

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

Bending Radius

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

Electrical Property

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

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

Standard and References

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

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	ASTM D 2863
Halogen acid gas generation	IEC 60754-1
Smoke density	ASTM D 2843-16
Flame resistance	ASTM D 2863

Approvals



OUR ACCREDITATION



POLYCAB HR-FR-LSH-GREEN WIRE

Building wire, 1100 V AC

Product Code	Nominal cross sectional area mm ²	Class of conductor	No. of wire/wire dia.	Nominal insulation thickness mm	Overall dia. (Approx.) mm
			No./mm		
LDIS09CYUAYL001C.75S	0.75	5	24/0.2	0.6	2.32
LDIS09CYUAYL001C001S	1	2	14/0.3	0.7	2.68
LDIS09CYUAYL001C001S	1	5	32/0.2	0.6	2.49
LDIS09CYUAYL001C1.5S	1.5	2	22/0.30	0.7	3.0
LDIS09CYUAYL001C1.5S	1.5	5	30/0.25	0.7	2.96
LDIS09CYUAYL001C2.5S	2.5	2	36/0.30	0.8	3.65
LDIS09CYUAYL001C2.5S	2.5	5	50/0.25	0.8	3.62
LDIS09CYUAYL001C004S	4	5	56/0.3	0.8	4.16
LDIS09CYUAYL001C006S	6	5	84/0.3	0.8	4.73
LDIS09CYUAYL001C010S	10	5	80/0.4	1	6.08
LDIS09CYUAYL001C016S	16	5	126/0.4	1	7.12

Electrical Characteristics

Current carrying capacity and Max. DC conductor resistance.

Nominal cross sectional area mm ²	Class of conductor	Reference Method B (enclosed in conduit on a wall or in trunking etc.)	Reference Method C (clipped direct)	Maximum DC conductor resistance at 20°C Ω/km
		Amp.	Amp.	
0.75	5	8.0	8.54	26
1	2	13.5	14.64	18.1
1	5	12.7	13.9	19.5
1.5	2	17.1	19.52	12.1
1.5	5	16.2	18.5	13.3
2.5	2	23.2	26.84	7.41
2.5	5	22.0	25.5	7.98
4	5	31.2	34.8	4.95
6	5	37.2	44.4	3.3
10	5	50.4	61.2	1.91
16	5	68.4	81.6	1.21

The ambient temperature is 40°C.

Conductor operating temperature 85°C.

De-Rating Factor

De-rating factor for various ambient temperature.

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

OUR ACCREDITATION

