



Images not to scale. Follow table for dimensions

## APPLICATION

POLY CAB HR-FR-LSH-LF 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.

## CHARACTERISTICS

**Voltage Rating**  
1100 V

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

**Bending Radius**  
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 specially developed in-house compound.

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

## 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

**Test Voltage**  
3000 V AC at (20±5) °C

## OUTSTANDING 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

## 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 ASTM D 2863  
Halogen acid gas generation IEC 60754-1  
Smoke density ASTM D 2843-19  
Flame resistance ASTM D 2863

## OUR ACCREDITATIONS



## APPROVAL



# POLY CAB HR-FR-LSH-LF GREEN WIRE

## Building wire, 1100 V AC

**POLY CAB**  
IDEAS. CONNECTED.

### WEIGHT AND DIMENSIONAL DATA

Product Code	Nominal cross sectional area	Class of conductor	No. of wire/wire dia.	Nominal insulation thickness	Overall dia. (Approx.)
	mm <sup>2</sup>		No./mm	mm	mm
LDIS09CYUAYL001C.75S	0.75	5	24/0.2	0.6	2.3
LDIS09CYUAYL001C001S	1	2	14/0.3	0.6	2.5
LDIS09CYUAYL001C001S	1	5	32/0.2	0.6	2.5
LDIS09CYUAYL001C1.5S	1.5	2	22/0.30	0.7	3.0
LDIS09CYUAYL001C1.5S	1.5	5	30/0.25	0.6	2.8
LDIS09CYUAYL001C2.5S	2.5	2	36/0.30	0.8	3.4
LDIS09CYUAYL001C2.5S	2.5	5	50/0.25	0.7	3.6
LDIS09CYUAYL001C004S	4	5	56/0.3	0.8	4.2
LDIS09CYUAYL001C006S	6	5	84/0.3	0.8	4.7
LDIS09CYUAYL001C010S	10	5	80/0.4	1	6.1
LDIS09CYUAYL001C016S	16	5	126/0.4	1	7.1

### Electrical Characteristics

Current carrying capacity and Max. DC conductor resistance.

Nominal cross sectional area	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
mm <sup>2</sup>		Amp.	Amp.	Ω/km
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

**POLY CAB HR-FR-LSH-LF GREEN WIRE**  
**Building wire, 1100 V AC**

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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