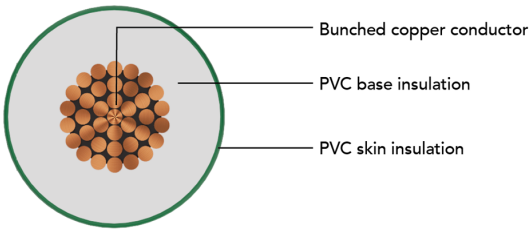
POLYCAB HR-FR-LSH-LF GREEN WIRE
Building wire, 1100 V AC



Images not to scale. Follow table for dimensions

APPLICATION
POLYCAB 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
CPRI APPROVED

APPROVAL
FQC FIRST QUALITY CERTIFICATION

POLYCAB HR-FR-LSH-LF GREEN WIRE
Building wire, 1100 V AC

POLYCAB
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.)
	mm²		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
mm²		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

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