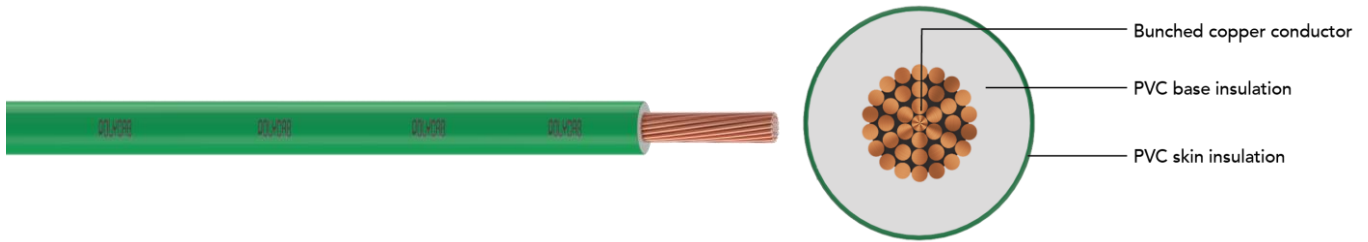


ETIRA FR-LSH

Building wire, 1100 V AC



Application

ETIRA FR-LSH 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.

Voltage Rating

1100 V

Operation Temperature

Fixed: -15°C to 70°C

Construction

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

Core Identification

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

Bending Radii

Fixed installation 6 x Overall Diameter
Occasional 4 x Overall Diameter

Electrical Property

- High insulation resistance
- Higher current carrying capacity

Mechanical & Physical Properties

- High Flexibility
- High surface lubrication suitable to conduit wiring
- Resistant to moisture for use in wet area
- High abrasion resistance
- 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	IEC 60332-1
Halogen acid gas generation	IEC 60754-1
Smoke density	ASTM D 2843-19

Approval



OUR ACCREDITATION



ISO
9001

ISO
14001

ISO
45001

NABL

ABS

IRS

ETIRA FR-LSH

Building wire, 1100 V AC

Product code	Nominal cross-sectional area	No. of wire/wire dia.	Nominal insulation thickness	Overall dia. (Approx.)
	mm ²	No./mm	mm	mm
LDIS09CYUAYL001C.75S	0.75	24/0.2	0.6	2.3
LDIS09CYUAYL001C001S	1	32/0.2	0.6	2.5
LDIS09CYUAYL001C1.5S	1.5	30/0.25	0.6	2.8
LDIS09CYUAYL001C2.5S	2.5	50/0.25	0.7	3.6
LDIS09CYUAYL001C004S	4	56/0.3	0.8	4.2
LDIS09CYUAYL001C006S	6	84/0.3	0.8	4.7

Electrical characteristics

Current carrying capacity and Max. DC conductor resistance.

Nominal cross-sectional area mm ²	Reference Method B (enclosed in conduit on a wall or in trunking etc.) Amp.	Reference Method C (clipped direct) Amp.	Maximum DC conductor resistance at 20°C Ω/km
	0.75	7	7.5
1	11	12	19.5
1.5	14	16	13.3
2.5	19	22	7.98
4	26	29	4.95
6	31	37	3.3

The ambient temperature is 40°C.

Conductor operating temperature 70°C.

De-Rating Factor

De-rating factor for various ambient temperature.

Ambient Temperature	35°C	40°C	45°C	50°C	55°C	60°C	65°C
De-Rating Factor	1.08	1	0.91	0.82	0.7	0.57	0.4

OUR ACCREDITATION

