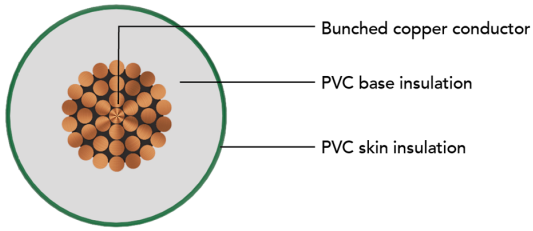
# ETIRA FR-LSH
## Building wire, 1100 V AC




Images not to scale. Follow table for dimensions

## 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.

## CHARACTERISTICS

**Voltage Rating**
1100 V

**Operation Temperature**
Fixed: -15°C to 70°C
**Bending Radii**
Fixed installation 6 x Overall Diameter
Occasional 4 x Overall Diameter

## 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

**Electrical Property**
• High insulation resistance
• Higher current carrying capacity

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

## OUTSTANDING FEATURES

• 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 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 IEC 60332-1
Halogen acid gas generation IEC 60754-1
Smoke density ASTM D 2843-19

## OUR ACCREDITATIONS

NABL

## APPROVAL

# ETIRA FR-LSH
## Building wire, 1100 V AC

POLYCAB
IDEAS. CONNECTED.

### WEIGHT & DIMESION DATA

| Product code | Nominal cross-sectional area | No. of wire/wire dia. | Nominal insulation thickness | Overall dia. (Approx.) |
|---|---|---|---|---|
| | mm² | 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 | 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 | 7 | 7.5 | 26 |
| 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 |