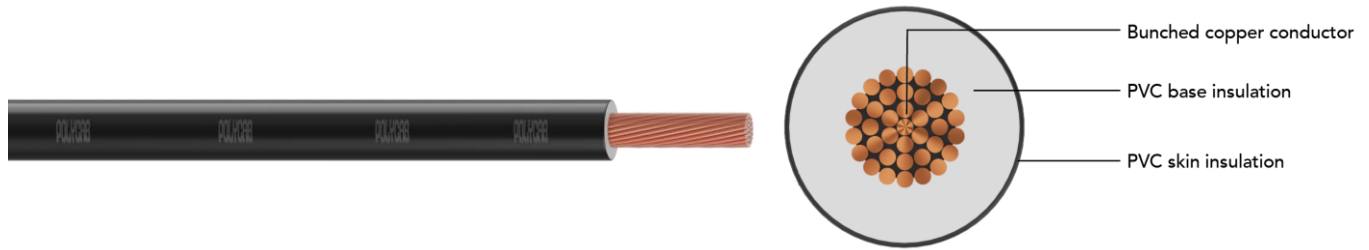


## ETIRA FR

### Building wire, 1100 V AC



#### Application

ETIRA FR 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 compound to IS 5831.

#### Core Identification

Red/Yellow/Blue/Black/Green/any customised 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

#### Approval



#### OUR ACCREDITATION



ISO  
9001

ISO  
14001

ISO  
45001

NABL

ABS

IRS

## ETIRA FR

### Building wire, 1100 V AC

Product code	Nominal cross-sectional area	No. of wire/wire dia.	Nominal insulation thickness	Overall dia. (Approx.)
	mm <sup>2</sup>	No./mm	mm	Mm
LDIS09CYUAYF001C.75S	0.75	24/0.2	0.6	2.3
LDIS09CYUAYF001C001S	1	32/0.2	0.6	2.5
LDIS09CYUAYF001C1.5S	1.5	30/0.25	0.6	2.8
LDIS09CYUAYF001C2.5S	2.5	50/0.25	0.7	3.6
LDIS09CYUAYF001C004S	4	56/0.3	0.8	4.2
LDIS09CYUAYF001C006S	6	84/0.3	0.8	4.7

### Electrical Characteristics

Current carrying capacity and Max. DC conductor resistance.

Nominal cross-sectional area mm <sup>2</sup>	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	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

#### OUR ACCREDITATION

