



Images not to scale. Follow table for dimensions

## 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.

## 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 compound to IS 5831.

### Core Identification

Red/Yellow/Blue/Black/Green/any customized 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

## OUR ACCREDITATIONS



## APPROVAL



**WEIGHT & DIMENSION:**

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.)		Reference Method C (clipped direct)	Maximum DC conductor resistance at 20°C Ω/km
	Amp.	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