



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	24/0.21	0.6	2.25
LDIS09CYUAYF001C001S	1	32/0.21	0.6	2.4
LDIS09CYUAYF001C1.5S	1.5	30/0.26	0.6	2.86
LDIS09CYUAYF001C2.5S	2.5	50/0.26	0.7	3.48
LDIS09CYUAYF001C004S	4	56/0.31	0.8	3.95
LDIS09CYUAYF001C006S	6	84/0.31	0.8	4.48

**Electrical Characteristics**

**Current carrying capacity and Max. DC conductor resistance.**

Nominal cross-sectional area	Current carrying capacity Reference Method B (enclosed in conduit on a wall or in trunking etc.)	Current carrying capacity Reference Method C (clipped direct)	Maximum DC conductor resistance at 20°C
	mm <sup>2</sup>	Amp.	Amp.
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