



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 ²	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 ²	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.	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