

## Single Core Insulated Copper Conductor (Unsheathed) Flexible Cable, 1100 Voltage Grade for Industrial application

- Higher safety factors
- Compact construction
- Choice of superior insulation system for meeting IEC classification, temperature rise, protection etc.



### Technical Specification

	FR	FRLS	ZHFR
<b>Type of insulation</b>	70°C/105°C Heat Resistant PVC	Flame Retardant Low Smoke (FRLS)	Halogen Free (HFFR) From 1.0 to 4.0 sq.mm.
<b>Typical applications</b>	Wiring of panels for use in high ambient temperature	Wiring in high density critical installations in public places and fire prone areas	Wiring in high density critical installations in public places and in vicinity of electronic systems
<b>Applicable standards</b>	IS-694, BS 6004, IEC 60227, DIN VDE-0281-3	IEC 60332-1, BS 4066-1, EIC-60754-1, ASTMD-2843, ASTMD-2863	IEC 60332-1&3, BS 4066-1&3, IEC 60754-1&2, ASTMD-2863, BS 7211, DIN VDE-0282-9

### Single Core Insulated Copper Conductor (Unsheathed) Flexible Cables, 1100 Voltage Grade for Industrial Application

Nominal Cross Sectional Area of Conductor	Number/ Nom. Dia of cond. strands*	Thickness of Insulation (Nom)	Approx. Overall Diameter	Current Carrying Capacity 2 Cables Single Phase		Max. Conductor Resistance per KM at 20°C
				Conduit/ Trunking	Unenclosed clipped directly to a surface or on cable trays	
sq. mm.	mm	mm	mm	Amps	Amps	Ohms
10	80/0.4	1.0	6.3	50	61	1.91
16	126/0.4	1.0	7.4	68	82	1.21
25	196/0.4	1.2	9.1	85	103	0.790
35	276/0.4	1.2	10.3	108	132	0.554
50	396/0.4	1.4	12.2	144	174	0.386

Nominal Cross Sectional Area of Conductor	Number/ Nom. Dia of cond. strands*	Thickness of Insulation (Nom)	Approx. Overall Diameter	Current Carrying Max Capacity	Max. Conductor Resistance per KM at 20°C
sq.mm	mm	mm	mm	Amps	Amps
70	360/0.5	1.4	14.1	256	0.272
95	475/0.5	1.6	16.4	304	0.206
120	608/0.5	1.6	18.0	359	0.161
150	760/0.5	1.8	20.1	406	0.129
185	925/0.5	2.0	22.3	466	0.106
240	1221/0.5	2.2	25.2	550	0.0801

**Note:** Conductor as per class 5. 100 metre packing lengths and in bigger packing on request. Higher sizes of nominal cross sectional area of conductor are also available on request. \*The number and diameter of conductor strands are for reference only.

#### Construction:-

**Conductor** : Plain annealed copper conductor as per IS:8130

**Insulation** : **Primary** - Natural Type A PVC

**Secondary**- Skin colour coated PVC

(2.5sq.mm & above are provided with unicolour insulation only)

**Colour** : As per IS: 694

Any other colour on specific request can also be supplied.

