

Finolex

An IS / ISO 9001 Company



Also available in PVC insulation

3 Core Flat XLPE Cables

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Business
Superbrand
INDIA 2008
Industry Validated

Finolex Cables
50
years of leadership
Since 1958

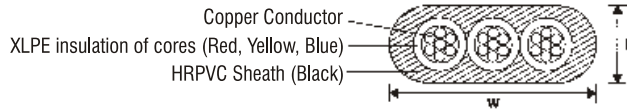
THE FINOLEX GROUP

The Finolex Group is one of India's Leading industrial groups and has interests spanning over several areas such as power, communications, petrochemicals and agriculture. The group has its own manufacturing units for vital raw materials. Electrolytic grade copper rods are manufactured at Copper Rod Division of Finolex Cables Limited, Goa and PVC resin at Finolex Industries Limited, Ratnagiri.

Finolex Cable Limited, an IS/ISO 9001 company, is the flagship company of the Finolex Group. As India's leading manufacturer of electrical and communications cables, it also offers a wide range of products for construction, automotive, agriculture, communication, industries and power sectors. Finolex has four manufacturing facilities viz. at Pmpri (Pune), Urse (near Pune), Verna (Goa), and at Rourkee (Uttaranchal). The High Voltage Power Cables are manufactured at Urse. In an endeavor to provide total electrical solution, the product range of Finolex Cables Limited now includes various types of electrical cables with Copper or Aluminum Conductor, Communication cables (LAN, Co-axial, Optic Fibre), EC grade Copper rod, PVC Sheets, Compact Fluorescent Lamps (CFL) and a wide range of Electrical Switches.

3 CORE FLAT CABLES WITH COPPER CONDUCTOR XLPE INSULATION AND HR PVC SHEATH

Technical Data



- **Conductor:** Flexible annealed electrolytic grade bare copper
- **Insulation:** Cross linked Polyethylene (XLPE)
- **Sheath:** Heat Resistant PVC Type ST2 (as per IS 5831 1984)
- **Voltage Grade:** Upto and including 1100V AC 50Hz 3Ph
- **Temperature:** Max conductor temperature of 90°C
- **Specification:** Generally as per IS 7098 (Part 1) 1988

Sr. No.	PARAMETER	Size (Sq. mm)							
		2.5	4.0	6.0	10.0	16.0	25.0	35.0	
1	Conductor construction (No./mm)	36/0.3	56/0.3	84/0.3	140/0.3	226/0.3	354/0.3	495/0.3	
2	Conductor Resistance at 20°C (Ω/km) Max.	7.41	4.95	3.3	1.91	1.21	0.780	0.554	
3	Insulation Thickness(mm)	Nom.	0.7	0.70	0.70	0.70	0.90	0.90	
4	Sheath Thickness(mm)	Nom.	1.0	1.0	1.1	1.2	1.3	1.6	
5	Overall Dimensions (mm) Approx.	Width (W)	12.7	14.9	16.9	20.3	23.8	29.6	33.6
		Height (H)	6.0	6.6	7.4	9.1	10.4	12.9	14.4

The number of wires and its diameter in the conductor will be such as to satisfy requirement of the conductor resistance as per IS 8130 : 1984.

Current Carrying Capacity (Amps)

Sr. No.	CABLE TYPE	Size (Sq. mm)						
		2.5	4.0	6.0	10.0	16.0	25.0	35.0
1	PVC Insulation	18	26	31	42	57	72	90
2	XLPE Insulation	30	37	46	66	85	113	139

Ambient Temperature (Deg.C)	25	30	35	40	45	50
Factor	1.18	1.12	1.06	1.00	0.94	0.88

Finolex make three core flat cables are best suited for submersible application and manufactured with conductor using annealed bare copper wires of electrolytic grade, bunched properly to ensure desired flexibility. The conductor is further insulated with thermoset type Cross Linked Polyethylene (XLPE) insulation with uniform thickness with each of the core colours in red, yellow and blue by using most modern machinery and extrusion techniques. The sheath with uniform thickness of Heat and Moisture Resistant type PVC (Grade ST2) compound formulated and manufactured inhouse, is extruded over these coloured cores in a flat formation. The colour of the sheath is black. The cables undergo stringent quality checks during raw materials, in process and final testing as per the laid down specification and the quality norms. The cables are available progressive sequential marking, company name, size & voltage printed on sheath. Following are the advantages offered by XLPE insulated cable over the PVC insulated cables:

- **Higher current rating:** It can withstand continuous conductor temperature of 90 °C as against 70 °C for PVC. This means higher current carrying capacity and hence it is possible to use one size lower than that of PVC for the same current. These cables can withstand extreme voltage fluctuations
- **Higher overload capacity:** It can withstand up to 130 °C during emergency overloading as against 120 °C for PVC. Hence, in case of emergency it can sustain for longer period of time compared to PVC
- **Higher short circuit rating:** It can withstand up to 250 °C under short circuit condition as against 160 °C for PVC
- **Lighter in weight and smaller bending radius:** It has lower density than PVC which makes them lighter in weight and hence the bending radius is smaller than that of PVC
- **Lower Di-electric constant and power factor:** It results in saving in power losses which means saving in costs.
- **Better impact, abrasion, corrosion resistance:** It is safer than PVC cables against mechanical damage, abrasion & corrosion
- **Easier jointing and termination:** It requires no special skills or equipment for jointing and termination
- **Application:** These cables enjoy longer and trouble free life and are ideally suitable for giving the power connection in submersible pump motors used mainly for Agriculture purpose.

Sample card available on request



Finolex

Cables Limited

AN IS/ISO 9001 COMPANY

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