

Finolex

An IS / ISO 9001 Company



ALSO AVAILABLE
180 MTS (DOUBLE COIL)
&
270 MTS (TRIPLE COIL)
SPECIAL PROJECT
PACKAGING



Finolex Cables
50
years of leadership
Since 1958

FINOLEX – Flame Retardant (FR) PVC Insulated Industrial Cables

THE FINOLEX GROUP

The Finolex Group is one of India's leading industrial groups and has interests spanning over several areas such as power, telecommunications, petrochemicals, agriculture and education. Finolex Cables Limited, an IS/ISO 9001 company, is the flagship company of Finolex Group. The company manufactures a wide range of cables required for construction, automotive, agricultural, communications, industrial and power sectors at its plants in Pimpri (Pune) Urse (Near Pune), Verna (Goa), and Roorkee (Uttarakhand).

FINOLEX – Flame Retardant (FR) PVC Insulated Industrial Cables

To add to the existing range of electrical wires, Finolex introduces 'Finolex' - Flame retardant (FR) PVC insulated industrial cables, which offer added safety.

Each wire is manufactured using 99.97% pure, electrolytic grade, bright annealed bare copper with more than 100% conductivity for conductor. This copper is manufactured at the company's state-of-the-art plant in Goa. Highest purity and conductivity of copper ensures greater saving of electrical energy and thus helps to reduce electricity bills. The conductor is made of multiple strands of finely drawn copper wires thereby offering greater flexibility which makes these wires ideal for conduit wiring.

The wires are insulated with FR (Flame Retardant) PVC compound, specially formulated and manufactured in-house. A special grade PVC resin manufactured by the group company, Finolex Industries Limited, is used to manufacture this compound. This PVC compound has FR properties of high oxygen and temperature index. These properties help in restricting the spread of fire even at very high temperatures. This special compound also offers high insulation resistance and dielectric strength. Insulation is applied over the conductor by the process of dual extrusion using state-of-the-art extrusion lines. The outer skin determines the colour identification while the inner layer is pure insulation which provides extra protection. All wires are subjected to high voltage spark testing to make sure that there are no weak spots in the insulation.

These ISI marked wires meet the requirements of IS 694 : 1990 with latest amendments with improved fire performance for category C-1. This means extra protection against electrical shocks, short circuits and fires. The wires also have FIA/TAC (Fire Insurance/Tariff Advisory Committee) approval. Buy only from authorised Finolex outlets to be assured of total quality. If doubt arises about the authenticity of the purchase, please write to the company at the address given below. Send a copy of the cash memo, coil number and a metre-length sample of the cable to enable genuineness tests to be carried out in the laboratory. These wires are manufactured in our state-of-the-art manufacturing plants at Pimpri (Pune), Urse (Near Pune), Verna (Goa) & Roorkee (Uttarakhand). The brand Finolex, company name and logo, size of wire, voltage grade FR Type, ISI mark, licence no. are printed at regular intervals on the wire to help in easy identification as shown below.

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FR PROPERTIES		
Test	Test Method Specified	Specification Values
Critical Oxygen Index	IS:10810 Part 58	Oxygen Index Minimum 29 %
Temperature Index	IS:10810 Part 64	Minimum Temperature Index 250°C
Also meet requirements of Flammability Test as per IS 694:90		



FINOLEX - SINGLE CORE, UNSHEATHED WIRES IN VOLTAGE GRADE 1100V.

Nominal area of copper Conductor	Number / Nominal Diameter of strands	Thickness of insulation (Nominal)	Approximate Overall Diameter of wire	Current carrying capacity # 2 wires, single phase		Resistance (Max.) per km. @20°C
				In conduit / Trunking	Unenclosed - clipped directly to a surface or on cable tray	
Sq.mm	mm	mm	mm	Amps	Amps	Ohms
0.75	24/.2**	0.6	2.3	6	7	26.0
1.0	14/.3*	0.7	2.7	11	12	18.10
1.5	22/.3*	0.7	3.1	13	16	12.10
2.5	36/.3*	0.8	3.7	18	22	7.41
4.0	56/.3**	0.8	4.3	24	29	4.95
6.0	84/.3**	0.8	4.8	31	37	3.30

Standard Colours: Black, Red, Blue, Yellow and Green (for earthing). Supplied in 90 metre lengths
 # As per IS 3961 (Part V) - 1968 BIS licence Nos. CM/L-0382242 & CM/L-7306463
 * As per conductor Class 2 of IS 8130 : 1984 ** As per conductor Class 5 of IS 8130 : 1984

Finolex

Cables Limited

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Finolex gets people together

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Sample card available on request

All information given herein is in good faith. Finolex shall not be liable for any damages arising out of incorrect use or interpretation. The Company reserves the right to change any of the above specifications without any prior notice.