

Finolex

Cables Limited

AN IS/ISO 9001 CERTIFIED COMPANY



MORE THAN
100%
CONDUCTIVITY

QUALITY COPPER & PVC
INSULATED IN INDIA

THE MOST QUALIFIED ELECTRICAL WIRING
IS/ISO 9001
CLASS 5

FLAMEGARD
Flame Retardant Low Smoke Halogen (FR-LSH) PVC Insulated Industrial Cables

FINOLEX CABLES LIMITED

Started in 1958, Finolex Cables Limited is India's largest and leading electrical and telecommunication cables manufacturer. Finolex Cables has always believed in enhancing capabilities and augmenting the product basket. In last few years, besides the cable business, the company has forayed into new segments and added new products under the Finolex brand. The company offers Total Electrical Solutions with products like electrical wires, 3 Core Flat Cables, Communication Cables, Telecommunication Cables, Flexible Cables, Auto Cables, Copper Rods, CFLs, LED Lighting Range, Premium Electrical Switches & Switchgear and newly launched elegant looking domestic Fans. Finolex Cables Limited has four manufacturing facilities viz. at Pimpri (Pune), Urse (near Pune), Verna (Goa) and Roorkee (Uttarakhand).

FLAMEGARD - FLAME RETARDANT LOW SMOKE HALOGEN (FR-LSH) PVC INSULATED INDUSTRIAL CABLES

Finolex is the first company to introduce Flame Retardant Low Smoke Halogen (FR-LSH) electrical wires in India. Flamegard is manufactured by using electrolytic grade copper for conductor to ensure superior conductivity. Insulated with FR-LSH Grade PVC compound formulated and manufactured in-house. In case of fire, Flamegard wires has special flame retardant, low smoke emitting and toxic fumes suppressing properties, with improved fire performance for FR-LSH as per IS 694: 2010 with latest amendments.

During fire, ordinary PVC insulated wires give out thick black smoke and toxic fumes of hydrochloric acid gas. This impairs visibility and hampers rescue operations. Flamegard wires, on the contrary, not only emit very little smoke and toxic gases, but also retards the spread of fire. It is thus ideal for concealed and conduit wiring in multistoried high rise buildings such as hotels, banks, hospitals, factories, commercial and residential complexes, etc. where the density of people is high.

Flamegard wires go through rigorous tests to ensure the highest standards of quality. For unique identification these wires are provided with an orange stripe, on request.

These wires are manufactured in our state-of-the-art manufacturing plants at Pimpri (Pune), Urse (Near Pune), Verna (Goa) and Roorkee (Uttarakhand).



FLAME RETARDANT v/s FR-LSH ELECTRICAL WIRES

Electrical safety is a function of five characteristics viz. smoke, hazardous gas generation, rate of heat release, flame spread and rate of burning. In case of fire in a closed space, trapped people are unable to find the exit due to emission of thick black smoke and loose consciousness due to the inhalation of toxic fumes before they can be evacuated to safety.

The advantages of low smoke and low acid gas generation are additional and critical features available with Finolex FR-LSH Flamegard wires in comparison with FR (Flame Retardant) wires which do not provide these properties.

Flamegard- Single Core, Unsheathed Cables in Voltage grade 1100V

Nominal area of Conductor Sq. mm.	Thickness of Insulation (Nom.) mm.	Approx. Overall Diameter mm.	Current carrying capacity# 2 cables, single phase		Max. Conductor Resistance per km. at 20°C Ohms.
			In Conduit/ Trunking Amps.	Unenclosed directly to surface or on cable tray Amps.	
0.75	0.6	2.30	6	7	26.0
1.0	0.6	2.52	11	12	19.5
1.5	0.6	2.72	13	16	13.3
2.5	0.7	3.32	18	22	7.98
4.0	0.8	4.04	24	29	4.95
6.0	0.8	4.50	31	37	3.30

Standard Colours: Black, Red, Blue, Yellow and Green (for Earthing) # as per IS 3961 (Part V) : 1968

THE FLAMEGARD ADVANTAGE

TEST	FUNCTION	TEST METHOD SPECIFICATION	TYPICAL VALUES	
			FLAMEGARD WIRES	ORDINARY PVC INSULATED WIRES
Critical oxygen index	To determine percentage of oxygen required for supporting combustion of insulating material at room temperature	IS 10810 Part 58	More than 29%	23%
Temperature index	To determine at what temperature normal oxygen content of 21% in air will support combustion of insulating material	IS 10810 Part 64	More than 250°C	150°C
Acid gas generation	To ascertain the amount of Hydrochloric acid gas evolved from insulation of wire under fire	IS 10810 Part 59	Less than 20%	45-50%
Smoke density Rating	To determine density of smoke from the burning of insulating material	IS 13360	Maximum smoke density rating 60%	More than 60%

IS:694



CM/L-7525273
CM/L-7306463
CM/L-8944096

Also meets requirements of Flammability test as per IS 694

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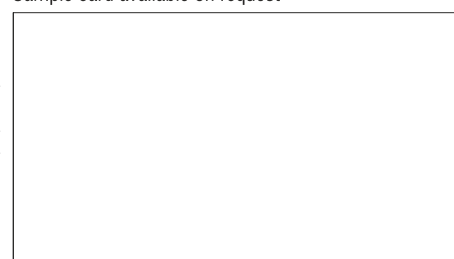
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Finolex gets people together

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Sample card available on request



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In order to derive maximum benefit and utilisation of our products, we advise that these products are stored, installed and commissioned as per the norms prevailing in the place of installation. When decommissioned, these should be disposed using appropriate methods/process specified in respective state / location of use so as not to affect the environment adversely.