



Halogen Free Flame Retardant Cable - upto 1100V



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USP

- India's 1st Fire-safe Cable with HFFR insulation and UNILAY conductor.
- Zero Halogen
- Does not catch flame, does not Propagate Fire.
- Non-Toxic, Non-Corrosive.

APPLICATIONS

Wiring in all installations where fire safety is more important. Schools, theaters, commercial complexes, air conditioned apartments, high rise buildings, fire alarm and emergency lighting circuits.

SPECIFICATIONS

Generally conforms to, IEC 60332-1 & 3, IEEE 383, IEC 60754-1 & 2, BS 4066-1 & 3, BS 7211, IS 8130.

CONDUCTOR

Thin strands of Electrolytic Copper are multi - drawn simultaneously for uniformity of Resistance, Dimension, and Flexibility. The drawn strands are uni-laid in high precision machines and compacted. A perfectly circular conductor is thus formed. This enables reduction in overall diameter for space saving in high density wiring. The strands do not get cut when stripping the Insulation. The conductor offers perfect contact at pins, terminals and sockets. This eliminates spot heating and sparking.

INSULATION

Specially formulated grade of Halogen Free Flame Retardant (HFFR) compound is used. The performance of the cable in a fire situation is exceptionally good. The insulation does not burn readily. It does not melt and drip. The smoke is negligible, transparent, non toxic. The victims trapped in fire do not suffocate and this facilitates fire fighting operations. Unlike PVC, the smoke emitted is non-corrosive. Thus, the electronic printed circuit boards, hard disks and other sensitive electronic equipments are unaffected.

Sizes, Dimensions and Ratings

Conductor Area Sq. mm	Insulation Thickness mm	Number *Nominal Dia. of Strands	Max. Overall Diameter mm	Conductor Resistance Ohm/km at 20°C (Max.)	Current Rating Amps.	
					Casing	Concealed
1.00	0.6	19/0.26	3.2	18.1	14	13
1.50	0.7	19/0.30	3.4	12.1	18	16
2.50	0.8	37/0.29	4.2	7.41	24	20
4.00	0.8	37/0.37	4.8	4.95	32	26

* Conductor as per IS-8130 : 1984

F. R. Properties

Properties	Test Method	Value
Limited Oxygen Index	ASTM - D 2863	35%
Temperature Index	ASTM - D 2863	>250°C
Smoke Density (Light absorption)	ASTM - D 2863	<10%
Acid Gas Generation	IEC - 6075 - 1	<5%