

FIRE BRAKE

FLAME RETARDANT LOW SMOKE WIRES



Extra Assurance,
Extra Safe

The extra protective layer
delays Fire action.



FIA / TAC
APPROVED



VASHI ELECTRICALS PVT. LTD.

Email : sales@vashielectricals.com • Website : www.vashielectricals.com

BHIWANDI :

A-6, Plot No. 74, Shree Ganesh Complex, Behind Gupta Compound,
Gundavali Village, Dapode Road, Mankoli Naka, Bhiwandi - 421305.
Tel. : 02522661600 / 02522661668 / 9322549817

NAVI MUMBAI :

Sagar Ratan Premises, Plot No. D-265, MIDC, Turbhe, New Mumbai - 400 705.
Tel. : 91-22-6791 1445 • Fax : 91-22-2767 0490

POLYCAB[®]
WIRES & CABLES

QUALITY WITH NO COMPROMISE

WITH FLEXIBLE COPPER CONDUCTOR 650/1100 V.

PVC HOUSE WIRES

“POLYCAB” FIREBRAKE : Flame Retardant Low Smoke (FRLS) PVC Insulated Wires for Building wiring

Copper conductor PVC Insulated wires are extensively used in residential and commercial buildings for power distribution. They are used in metal/plastic conduits either embedded in plaster (Concealed wiring) or fixed on the walls.

In fifties, the use of electricity in household was limited to lighting during night hours and hence concessions were offered to household to use electricity during day hours in domestic tariffs.

Today the scene has changed, a modern household has Air Conditioner, Geyser, Refrigerator, Vacuum cleaner, Oven, Washing machine, Kitchen machine, Hair Drier etc. The combined connected load of the above appliances works out to be about 10 kW (14 H.P.). A modern office has a connected load of 5 kW. per 100 Sq. Ft. of area. This concentration of load has increased the risk of fire due to short circuit. Today 90% of the fires are attributed to electric short circuit and hence due care should be taken in selection and installation of electric cables.

PVC is a widely accepted insulating material for building wires due to its better abrasive and chemical resistance, weatherproof, electrical and fire retardant properties.

We have enhanced the fire retardant properties of PVC by adding special additives in its formulation to meet the demand of modern era.

Flame retardant properties of insulating materials is measured by its Oxygen Index. Oxygen Index indicates the concentration of Oxygen required in Air so that the material will burn like a candle. The Oxygen Index of normal PVC is about 25% while that of our FIRE BRAKE PVC is 30%. Apart from this our PVC emits less smoke and HCL contents in the smoke is also less and hence fire fighting becomes easier.

UNIQUE PROCESS FEATURES

- On-line wire drawing and annealing.
- High speed extruders (upto 500 metres per minute).
- Twin PVC insulated (upto 4 Sq. mm.) for better insulation & electrical properties.
- Automatic on-line critical diameter control.
- Stringent quality control.



CML-7167980

SINGLE CORE, TWIN INSULATED WIRES IN VOLTAGE GRADE 650/1100 V.

Nominal area of Conductor Sq. mm.	Number/Nom. Dia. of wire mm.	Thickness of Insulation (Nom.) mm.	Approx. overall Diameter mm.	Current carrying capacity* Rating Amps.	Resistance (Max.) per Km. @ 20°C Ohms
1.0	14/0.30	0.7	2.8	12	18.10
1.5	22/0.30	0.7	3.1	16	12.10
2.5	36/0.30	0.8	3.8	22	7.41
4.0	56/0.30	0.8	4.4	29	4.95
6.0	84/0.30	0.8	5.2	37	3.30

* As per IS 3961 (PartV)-1968

Standard Colours : Red, Yellow, Blue, Black and Green (for earthing).

Supplied in 90 metre lengths in attractive cartons. Conform to IS 694:1990. ISI Licence No. CM/L-7167980



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