

POLYCAB[®]
WIRES & CABLES

unless fire-fighting
is more exciting to you



- DOES NOT CATCH FLAME
- ULTRA LOW SEE-THRU NON-TOXIC SMOKE



Fire !,

Ignited due to short circuits and propagated through PVC cables is the major cause of hazards worldwide.

Fire may erupt through countless other sources too. Ordinary PVC cables are prone to catch flame and the excessive black smoke and toxic gases it emits could trap and devastate all rescuing efforts. Lives and assets which cannot be seen through thick smoke, might never be seen. Besides, the corrosive gas contents in the smoke can damage electronic circuits, computer networks and even RCC.

POLYCAB FRZH CABLES are the answer to this in an increased load scenario. These cables have flame retardant fire resistant properties. In the event of persistent fire, the near total absence of smoke, toxic fumes & corrosive gases makes rescuing and fire-fighting easier.

POLYCAB[®]
WIRES & CABLES
**FLAME RETARDANT
ZERO HALOGEN
INDUSTRIAL CABLES**

The ultimate in Industrial Cables

ISO
9001:2000

FRZH INDUSTRIAL CABLES

POLYCAB FRZH (FLAME RETARDANT ZERO HALOGEN) INDUSTRIAL CABLES

These cables are insulated with non-toxic EVA based Flame Retardant Halogen Free compound to out-perform all other insulation on toxicity parameters by generating almost zero toxic gases in case of fire. The small amount of smoke that is generated is white and of low density (20%). Thus, fire fighting and evacuation of casualties is easy.

These eco-friendly cables are a class of its own and are the ultimate in the Industrial Cables. Made of multi strand copper conductors accurately drawn in imported fine wire drawing machines and annealed on-line, they offer uniform resistance. They are recommended to be used where large congregation of people is expected. Typical applications are in Hotels, Theatres, Multiplexes, Shopping Malls, Metro Railways, Hospitals, Schools, Commercial Complexes and high-rise buildings.

FIRE-EFFECT & SMOKE EMISSION COMPARISON TEST



Ordinary PVC Cables

Prone to catch flame, burns with lot of black smoke and toxic gases.



FRLS Cables

Delays fire action, burns slowly with less smoke.



FRZH Cables

Highly fire-resistant, burns with no flame and negligible non-toxic smoke.

UNIQUE FEATURES OF OUR PROCESS

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

POLYCAB 1100V

SINGLE CORE, FRZH INSULATED CABLES IN VOLTAGE GRADE 1100 V.

Nominal area of Conductor	Number/Nom. Dia. of wire	Thickness of Insulation (Nom.)	Approx. overall Diameter	Current carrying capacity* Rating	Resistance (Max.) per Km. @ 20°C
Sq. mm.	mm.	mm.	mm.	Amps.	Ohms
1.0	14/0.3	0.7	2.65	12	18.10
1.5	22/0.3	0.7	2.95	16	12.10
2.5	36/0.3	0.8	3.55	22	7.41
4.0	56/0.3	0.8	4.0	29	4.95
6.0	84/0.3	0.8	4.6	37	3.30
10.0	80/0.4	1.0	5.8	51	1.91
16.0	126/0.4	1.0	6.8	68	1.21

Standard Colours : Red, Yellow, Blue, Black and Green (for earthing).
Supplied in 90 metre lengths in attractive cartons.

* As per IS 3961 (PartV)-1968

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"POLYCAB" WILL NOT BE LIABLE FOR ANY DAMAGES ARISING OUT OF INCORRECT APPLICATION.

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