

# FR (Flame Retardant) Cables PVC Insulated Cables & Wires



DIATRON Flame Retardant Cables are made of Electrolytic grade, bright plain annealed copper conductor, as per IS: 8130-1984. These cables are suitable for all Industrial & Domestic wiring applications.

The cables have high oxygen and temperature index and insulation of Flame Retardant- FR PVC compound, giving it additional safety. The cables have twin coating giving it superior insulation. Further the wires have uniform diameter and are available in standard lengths.

- **Single Core Flexible Cables as per IS 694:1990 voltage grade upto 1100 volts**
- **Multi Core Flexible Cables as per IS 694:1990 voltage grade upto 1100 volts**

## High Insulation Cables

DIATRON Flame Resistant Low Smoke (FRLS) Wire- These wires are made of special insulation material with higher oxygen and temperature indices and lower smoke density rating and acid gas generation. This insulation retards flame propagation and generates low smoke under fire condition.

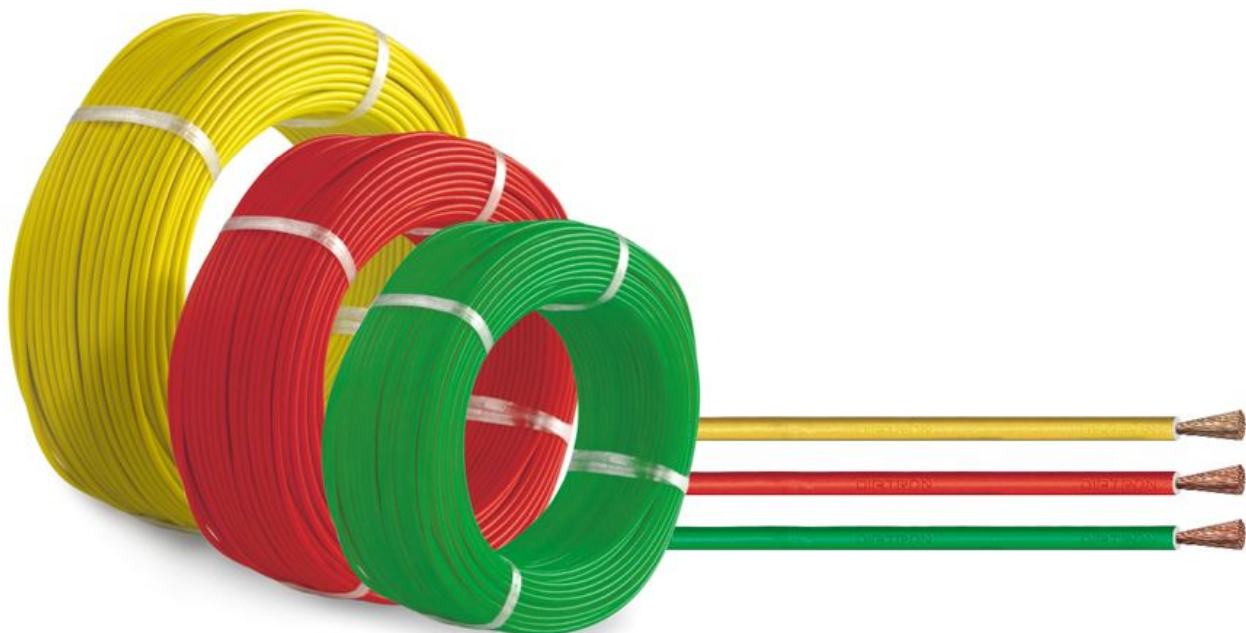
DIATRON Zero Halogen Flame Retardant (ZHFR) Wire- The insulation is free from halogen, thus preventing emission of corrosive gases under conditions of fire. These wires are primarily used where critical control supply is essential during a fire- lifts, fire alarms, hospitals etc.

Oxygen Index is used as a measure of flame retardant property of the insulating material. The oxygen index indicates percentage of oxygen required for supporting combustion of insulating material at room temperature. Higher oxygen index is desirable.

Temperature Index indicates the temperature at which normal oxygen content of 21% in air will support combustion of insulating material. Higher temperature index is better.

Smoke Density indicates the loss of light transmission from insulation material under fire. Lower the Smoke density, the better is the visibility & efficacy of fire fighting operations. Acid Gas Generation indicates the amount of hydrochloric acid gas evolved from insulation of cable under fire. Lower Acid Gas generation is desirable

DIATRON flexible wires are made of bright, plain multi-stranded annealed copper conductor, as per Class 5 of IS 8130:1984 with PVC insulation. These wires are used for all industrial wiring applications and are available in single and multi cores in standard lengths.



## Flexible Cables