Flame Retardant (FR) PVC Insulated Industrial Cables

- High Insulation Resistance
- Anti Termite Rodent Repellent
- RoHS Compliant

Also available:
- 180 MTS (Double Coil)
- 270 MTS (Triple Coil)
- Special Project Packaging
**FLAME RETARDANT (FR) PVC INSULATED INDUSTRIAL CABLES**

One of the core products of Finolex Cables, Flame retardant (FR) PVC insulated industrial cables, offer added safety.

Each wire is manufactured using 99.97% pure, electrolytic grade, bright annealed bare copper with more than 100% conductivity for conductor. This copper is manufactured at the company’s state-of-the-art plant in Goa. Highest purity and conductivity of copper ensures greater saving of electrical energy and thus helps to reduce electricity bills. The conductor is made of multiple strands of finely drawn copper wires thereby offering greater flexibility which makes these wires ideal for conduit wiring.

The wires are insulated with FR (Flame Retardant) PVC compound, specially formulated and manufactured in-house. A special grade PVC resin manufactured by the group company, Finolex Industries Limited, is used to manufacture this compound. This PVC compound has FR properties of high oxygen and temperature index. These properties help in restricting the spread of fire even at very high temperatures. This special compound also offers high insulation resistance and dielectric strength. Insulation is applied over the conductor by the process of dual extrusion using state-of-the-art extrusion lines. The outer skin determines the colour identification while the inner layer is pure insulation which provides extra protection. All wires are subjected to high voltage spark testing to make sure that there are no weak spots in the insulation.

These ISI marked wires meet the requirements of IS 694:2010 with latest amendments with improved fire performance for category C-1. This means extra protection against electrical shocks, short circuits and fires. The wires also have FIA/TAC (Fire Insurance/Tariff Advisory Committee) approval.

The wires are manufactured in our state-of-the-art manufacturing plants at Urse (Near Pune), Verna (Goa) & Roorkee (Uttarakhand). These wires are manufactured in our state-of-the-art manufacturing plants at Urse (Near Pune), Verna (Goa) & Roorkee (Uttarakhand). The brand Finolex, company logo, size of wire, voltage grade FR Type, ISI mark, licence no. are printed at regular intervals on the wire to help in easy identification as shown below.

The brand Finolex, company logo, size of wire, voltage grade FR Type, ISI mark, licence no. are printed at regular intervals on the wire to help in easy identification as shown below.

<table>
<thead>
<tr>
<th>FR PROPERTIES</th>
<th>Test Method Specified</th>
<th>Specification Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Critical Oxygen Index</td>
<td>IS: 10810 Part 58</td>
<td>Oxygen Index Minimum 29 %</td>
</tr>
<tr>
<td>Temperature Index</td>
<td>IS: 10810 Part 64</td>
<td>Minimum Temperature Index 250°C</td>
</tr>
<tr>
<td>Also meet requirements of Flammability Test as per IS: 694:2010</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**FLAME RETARDANT (FR) PVC INSULATED INDUSTRIAL CABLES**

**SINGLE CORE, UNSHEATHED CABLES IN VOLTAGE GRADE 1100V**

<table>
<thead>
<tr>
<th>Nominal area of copper Conductor</th>
<th>Thickness of insulation (Nominal)</th>
<th>Approximate Overall Diameter of wire</th>
<th>Current carrying capacity # of 2 wires, single phase</th>
<th>Resistance (Max.) per km. @20°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sq.mm</td>
<td>mm</td>
<td>mm</td>
<td>In conduit / Trunking</td>
<td>Unenclosed - clipped directly to a surface or on cable tray</td>
</tr>
<tr>
<td>0.75</td>
<td>0.6</td>
<td>2.3</td>
<td>6</td>
<td>7</td>
</tr>
<tr>
<td>1.0</td>
<td>0.7</td>
<td>2.8</td>
<td>11</td>
<td>12</td>
</tr>
<tr>
<td>1.5</td>
<td>0.7</td>
<td>2.8</td>
<td>13</td>
<td>16</td>
</tr>
<tr>
<td>2.5</td>
<td>0.8</td>
<td>3.6</td>
<td>18</td>
<td>22</td>
</tr>
<tr>
<td>4.0</td>
<td>0.8</td>
<td>4.6</td>
<td>24</td>
<td>29</td>
</tr>
<tr>
<td>6.0</td>
<td>0.8</td>
<td>4.6</td>
<td>31</td>
<td>37</td>
</tr>
</tbody>
</table>

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

# As per IS 3961 (Part V) - 1968

BIS license Nos. CM/L 7306463 CM/L 7525273 & CM/L 8944096

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For technical literature please contact our Branch Offices:

- Ahmedabad: Tel: 079-2656437, 2657539 | Bhopal: Tel: 0755-2530176
- Jodhpur: Tel: 0746-2657003 | Chennai: Tel: 844-2825151, 2826442
- Chandigarh: Tel: 0172-507631, 2837334 | Cochin: Tel: 0484-2408930, 2408492
- Coimbatore: Tel: 0422-2333939/40 | Dharamsala: Tel: 0836-2744640 | Goa: Tel: 0832-2782300, 2782065
- Gurgaon: Tel: 0124-4832304 | Guwahati: Tel: 0361-2490807
- Indore: Tel: 0731-282689 | Jaipur: Tel: 0141-2333526/29 | Kolkata: Tel: 033-24192494, 24192495
- Lucknow: Tel: 0522-2409185, 4035035 | Ludhiana: Tel: 0161-2804095
- Mumbai: Tel: 022-22873252, 2282962 | New Delhi: Tel: 011-23324748, 2333168
- Patna: Tel: 0612-2589835 | Pune: Tel: 020-2475963, 2570620 | Rajkot: Tel: 0271-2885595 | Ranchi: Tel: 0651-2284758 | 033-224088
- Secunderabad: Tel: 040-27721224, 27811161 | Vijayawada, Vadodara, Pondicherry.

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All information given herein is in good faith. Finolex shall not be liable for any damages arising out of incorrect use or interpretation. The Company reserves the right to change any of the above specifications without any prior notice.

In order to derive maximum benefit and utilization 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.

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Sample card available on request