

## Fire Resistant Cables

Finds application where electrical integrity of the cable has to remain intact for at least three hours, so as to activate and maintain crucial functions such as fire fighting, public announcements, smoke extraction systems, sprinklers, emergency lighting, evacuation path lighting systems etc.

The areas for Fire Resistant cable applications include places where large number of people congregate for short or limited period of time such as shopping malls, cinema theaters, educational institutions, airport terminals, mass transit systems (metro rail networks), high rise office buildings etc. FR cables also find use in power generation facilities, petrochemical complexes, nuclear power facilities, mines etc. for phased shut down of the plant and to keep critical functions like communication, rescue and evacuation systems functional during a fire.

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| <b>Construction</b>  | : Single & Multi Cores / Pairs / Traids  |
| <b>Voltage Grade</b> | : 300 / 500 / 600 / 1000 / 1100 V AC   |
| <b>Conductor</b>     | : - Solid or Stranded Annealed Bare or Tinned Copper Conductor /<br>- Stranded Aluminium Conductor   |
| <b>Fire Barrier</b>  | : Glass Mica Tape  |
| <b>Insulation</b>    | : XLPE or EPR or Silicone Rubber   |
| <b>Screening</b>     | : Individual and/or overall with following options -<br>- Aluminum Mylar / with Copper Drain Wire / Copper Tape<br>with Tinned Copper Drain Wire<br>- Braided with Bare or Tinned or Nickel Plated or Silver Plated Copper |
| <b>Inner Sheath</b>  | : FRLS PVC / LSOH / ZHFR / SHF1 / SHF2 or equivalent   |
| <b>Armouring</b>     | : Galvanized Steel Wire Helical Armour / Steel Wire Braid / GI Wire Braid  |
| <b>Outer Sheath</b>  | : FRLS PVC / LSOH / ZHFR / SHF1 / SHF2 or equivalent   |
| <b>Standards</b>     | : BS-7846, BS-7629, BS-8434 or equivalent with fire test confirming<br>resistance to BS-6387 category CWZ 'or' IEC-60331-21, BSEN 50200  |

- Fire Resistance cable type tested at BRE Global (UK) for BS-6387 CWZ category

