



BUILDING WIRE FRLS



An Iso 9001:2008 Certified Company

A Name That Lights The Nation



BUILDING WIRE - FRLS

Ultracab FRLS Wires are Insulated with Flame Retardant Low Smoke PVC Compound. Copper conductor PVC Insulated wires are extensively used in residential and commercial buildings. Ultracab with its enhanced Fire Retardant properties of PVC adds special additives in the formulation of this wire. The oxygen index of a Ultracab Wires have 30% which increases its efficiency in fire fighting. Ultracab FRLS Wires have a less than 60% Off Smoke Density Rating Property with standard of ASTM D 2863. Ultracab Wires are energy efficient as only Electrolytic Copper of 99.97% purity having very low resistance are used thus ensuring low energy losses.

Single Core, Twin Insulated Wires In Voltage Grade 650/1100 V. (FRLS)

| Nominal Area of Conductor | Number/Nom. Dia. of Wires | Thickness Insulation (Nom.) | Approx. Overall Diameter | Current Carrying Capacity* 2 wires single phase | Resistance (Max.) per km. @20°C |
|---------------------------|---------------------------|-----------------------------|--------------------------|---|---------------------------------|
| Sq. mm | No./mm | mm | mm | Amps. | 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 |

Standards Colors: Red, Yellow, Blue, Black, and Green (For Earthing).
Supplied in 90 Meter Coil in attractive cartons. Confirms to IS: 694:1990

*As per IS 3961 (PartV)-1968

Additional FRLS Properties

| Characteristics | Standard | Typical |
|----------------------|-------------|-----------------|
| Oxygen Index | ASTM D 2863 | More Than 29% |
| Temperature index | ASTM D 2863 | More Than 250°C |
| Smoke Density Rating | ASTM D 2863 | Less Than 60% |

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