



FR-LSH CABLES

Insulation

MESCAB FR-LSH Cables offer two most significant and desirable characteristics of specially formulated PVC compound represented in terms of very high Oxygen & Temperature Index. Escalated Index Values lead to the optimum level of non-combustibility. With enhanced Di-electric Strength of high insulation resistance it is able to withstand abrupt increase of load in Electrical Circuit or sudden voltage surge may arise due to any irregularities in supply system. Emission of smoke of the exclusively designed PVC compound is less than 50% in comparison to the ordinary kind of PVC containing lesser amount of corrosive and acid fumes (HCL) of fires breaks out in an abnormal situation which may govern to smooth rescue operation of precious properties and priceless human life.

Conductor

Manufactured from electrolytic grade bright annealed copper which provides maximum conductivity to the flow of electricity. Thus helps in saving energy.

Flame Retardant Low Smoke (FR-LSH) PVC Insulated (Unsheathed) single core multi strand cable with electrolytic grade annealed copper conductor suitable up to 450/750 Volts grade conforming to IS:694

| Nominal Area of Conductor Sq.mm | Number/ Nom. dia* of Wire mm | Nominal Thickness of Insulation mm | Approx. Overall Diameter mm | Current Carrying Capacity 2 Cables, Single Phase @ | | Max DC Conductor Resistance At 20°C Ohms/km |
|------------------------------------|---------------------------------------|---------------------------------------|--------------------------------|---|-----------------|--|
| | | | | In Conduit Amps | Unenclosed Amps | |
| 0.75 | 24/0.2 | 0.6 | 2.5 | 07 | 08 | 26.00 |
| 1.0 | 14/0.3 | 0.7 | 2.8 | 11 | 12 | 18.10 |
| 1.5 | 22/0.3 | 0.7 | 3.1 | 13 | 16 | 12.10 |
| 2.5 | 36/0.3 | 0.8 | 3.8 | 18 | 22 | 7.41 |
| 4.0 | 56/0.3 | 0.8 | 4.4 | 24 | 29 | 4.95 |
| 6.0 | 84/0.3 | 0.8 | 5.0 | 31 | 37 | 3.30 |
| 10.0 | 80/0.4 | 1.0 | 6.5 | NA | 46 | 1.91 |
| 16.0 | 126/0.4 | 1.0 | 7.4 | NA | 62 | 1.21 |

| Additional Flame Retardant Low Smoke (FR-LSH) Properties | | |
|--|---------------|------------------|
| Test | Specification | Specified Values |
| Critical Oxygen Index | IS 10810 | Minimum 29% |
| Temperature Index | IS 10810 | Minimum of 250°C |
| Light Transmission (Smoke Density) | IS 10810 | Maximum 60% |
| Acid Gas Generation (Hydrochloric Acid) | IS 10810 | Maximum 20% |

Colours : Available in Red, Yellow, Blue, Black, Grey & Green.

Marking : The cables are printed with brand name, size in sq.mm. & voltage grade.