



BUILDING WIRES

FR / FR-LSH

FLAME RETARDANT

FLAME RETARDANT LOW SMOKE & HALOGEN

Product Range

- Building Wires (FR/FR-LHS/ZHFR)
- Transport Cables
- Submersible Pump Cables
- Single and Multicore Industrial Cables
- Signaling Cables
- Automotive & Battery Cables
- Power & Control Cables
- Instrumentation Cables
- Cables as per Customer Specification

APPLICATION

"Ravicab" Building wires with improved fire performance characteristics designated as "FR" & "FR-LSH" are used in internal wiring of high rise buildings, sky scrapers, domestic buildings, multi story apartments, office installations, and other similar locations.

PRODUCT RANGE

1sq. mm to 16 sq. mm

Colors : ● Red ● Yellow ● Blue ● Black
● Green ○ White ○ Grey

CONSTRUCTION

- ◆ Confirms to IS: 694 latest / IEC 60227 / Customer specification
- ◆ High Conductive annealed plain flexible copper conductor
- ◆ PVC with improved Fire performance Category "C1" or "C2" with legend as "FR" and "FR-LSH".
- ◆ Supplied in 90 meter coils or in 180 meter for projects.

ADVANTAGES OF PRODUCT

- ✓ Low Smoke generation compared to general purpose PVC
- ✓ Withstands fire & yields sufficient time to escape from the scene of fire
- ✓ Prevents loss of human life and other physical disorders
- ✓ Less corrosion of electronic and electrical equipments.

Technical Data

| | |
|--|---|
| Rated Voltage Up to 1100 V | Flexibility Suitable for Conduit |
| Temperature Range -15°C , +70°C | Bending Radius 8x Cable Diameter |
| Chemical Reaction Impervious to Oil & Water | Resistance to Humidity 95% & 50° C |

Ravicab "FR" & "FR-LSH" Single Core Unsheathed Copper Flexible Wires 1100V Grade

| Nominal Area of Conductor | Number / Nominal Dia of wires | Nominal Thickness of insulation | Approx. Over all Diameter of wires | Current Carrying Capacity 2 Cables, Single Phase | | Maximum DC Resistance @ 20° C |
|---------------------------|-------------------------------|---------------------------------|------------------------------------|---|--|-------------------------------|
| | | | | In conduit / Trunking | Unenclosed - Clipped Directly to a surface | |
| Sq.mm | mm | mm | mm | Amp | Amp | Ohm/Km |
| 1 | 14/0.3 | 0.7 | 2.8 | 11 | 12 | 18.1 |
| 1.5 | 22/0.3 | 0.7 | 3.1 | 13 | 16 | 12.1 |
| 2.5 | 36/0.3 | 0.8 | 3.7 | 18 | 22 | 7.41 |
| 4 | 56/0.3 | 0.8 | 4.1 | 24 | 29 | 4.95 |
| 6 | 85/0.3 | 0.8 | 5.0 | 31 | 37 | 3.30 |
| 10 | 140/0.3 | 1.0 | 6.6 | 42 | 51 | 1.91 |
| 16 | 126/0.4 | 1.0 | 7.5 | 57 | 68 | 1.21 |

Improved Fire performance properties for "FR"

| Test | Specification | Values |
|-----------------------|----------------------------------|----------|
| Critical Oxygen Index | IS - 10810 PART 58 / ASTM D 2863 | > 29 |
| Temperature Index | IS - 10810 PART 64 / ASTM D 2863 | > 250° C |

Improved Fire performance properties for "FR-LSH"

| Test | Specification | Values |
|----------------------------|----------------------------------|----------|
| Critical Oxygen Index | IS - 10810 PART 58 / ASTM D 2863 | > 29 |
| Temperature Index | IS - 10810 PART 64 / ASTM D 2863 | > 250° C |
| Halogen acid gas evolution | IEC 754 Part 1 | <20 |
| Smoke Density | ASTM D 2843 | <60 |

Conductor Sizes 1, 1.5, 2.5 sq. mm Confirms to Table 2 Class 2 of IS - 8130/1984.
 Conductor Sizes 4, 6, 10, 16 sq. mm Confirms to Table 3 Class 5 of IS - 8130/1984.
 * Standards, where ever mentioned, refers to latest version.

An ISO 9001-2008 Certified Company

CH/L:2406240

RAVICAB CABLES PRIVATE LIMITED,

Manufacturing Unit : #5 B, Sector - 1, Phase - 2, KIADB Bidadi Industrial Area, Bidadi, Ramanagar Taluk, Bangalore - 562 109.
 Ph : +91 80 2730 7094 / 95.

Corporate Office : #116, 'Diamond Enclave', 2nd Floor, 100 ft. Ring Road, Banashankari 3rd Stage, Bangalore - 560 085. India.
 Ph: +91 80 4289 4141 / 42, Fax: 4289 4151 Customer care: +91 96635 95590
 Email : contact@ravicab.com

www.ravicab.com