

0.6/1 kV FRC-XLPE/LSHF (4 CORES)

FIRE RESISTANT WITH LOW SMOKE & HALOGEN FREE CABLES



Standards Achieved :

| | |
|-------------------|--|
| Construction | : IEC 60228, IEC 60502-1 |
| Circuit integrity | : BS 6387 Categories C, W, Z : IEC 60331-21 |
| Flame propagation | : IEC 60332-1-2 : IEC 60332-3-24 Category C |
| Acid gas emission | : IEC 60754-2 |
| Smoke emission | : IEC 61034-2 |

Construction :

| | |
|----------------------|---|
| 1. Conductor | : Concentric stranded or Compacted stranded copper wires |
| 2. Fire barrier tape | : Mica tape |
| 3. Insulation | : Cross-linked polyethylene (XLPE) Blue, Brown, Black, Grey colour or requested colour |
| 4. Filler | : LSHF rod |
| 5. Binding tape | : Fiberglass tape |
| 6. Sheath | : Low smoke & halogen free compound (LSHF), Orange colour |

Classification :

| | |
|-------------------------------|-----------|
| Maximum conductor temperature | : 90°C |
| Maximum circuit voltage | : 1,000 V |
| AC test voltage | : 3,500 V |

Application :

Preferably used for installation into conduit and surface wiring which provide flame retardant, low smoke & corrosive gases properties and maintain circuit integrity in case of fire.

| No. of core | Conductor | | | Thickness of insulation mm (Nominal) | Thickness of sheath mm (Nominal) | Overall diameter mm (Approx.) | Conductor resistance at 20°C Ω/km (Max.) | Current rating in free air at 40°C ambient A | Cable weight kg/km (Approx.) | Standard length m |
|-------------|---|------------------------|-----------------------------|--|--|-------------------------------------|--|---|------------------------------------|----------------------|
| | Cross-sectional area mm ² | No. of wires (Min.) | Diameter mm (Approx.) | | | | | | | |
| 4 | 1.5 | 7 | 1.53 | 0.7 | 1.8 | 14.5 | 12.1 | 21 | 230 | 500 |
| 4 | 2.5 | 7 | 1.98 | 0.7 | 1.8 | 15.5 | 7.41 | 29 | 290 | 500 |
| 4 | 4 | 7 | 2.49 | 0.7 | 1.8 | 17.0 | 4.61 | 38 | 370 | 500 |
| 4 | 6 | 7 | 3.09 | 0.7 | 1.8 | 18.5 | 3.08 | 49 | 480 | 500 |
| 4 | 10 | 6 | 3.72 | 0.7 | 1.8 | 20.0 | 1.83 | 68 | 660 | 500 |
| 4 | 16 | 6 | 4.69 | 0.7 | 1.8 | 22.0 | 1.15 | 91 | 930 | 500 |
| 4 | 25 | 6 | 5.90 | 0.9 | 1.8 | 26.5 | 0.727 | 116 | 1,400 | 500 |
| 4 | 35 | 6 | 6.95 | 0.9 | 1.8 | 29.0 | 0.524 | 144 | 1,840 | 500 |
| 4 | 50 | 6 | 8.33 | 1.0 | 1.8 | 33.0 | 0.387 | 180 | 2,420 | 500 |
| 4 | 70 | 12 | 9.73 | 1.1 | 2.0 | 37.5 | 0.268 | 224 | 3,380 | 500 |
| 4 | 95 | 15 | 11.43 | 1.1 | 2.1 | 41.5 | 0.193 | 271 | 4,540 | 400 |
| 4 | 120 | 18 | 12.95 | 1.2 | 2.3 | 46.5 | 0.153 | 315 | 5,680 | 400 |
| 4 | 150 | 18 | 14.27 | 1.4 | 2.4 | 51.0 | 0.124 | 363 | 6,980 | 300 |
| 4 | 185 | 30 | 15.98 | 1.6 | 2.6 | 56.5 | 0.0991 | 415 | 8,710 | 250 |
| 4 | 240 | 34 | 18.47 | 1.7 | 2.8 | 63.5 | 0.0754 | 490 | 11,310 | 200 |
| 4 | 300 | 34 | 20.68 | 1.8 | 3.0 | 70.0 | 0.0601 | 565 | 14,040 | 150 |
| 4 | 400 | 53 | 23.39 | 2.0 | 3.3 | 78.5 | 0.0470 | 678 | 17,850 | 100 |