

FRC

0.6/1 kV FIRE RESISTANT CABLES LOW SMOKE
HALOGEN FREE, SINGLE CORE



APPLICATION

Preferably used for installation into trunking and conduit which provide flame retardant property and maintain circuit integrity in a fire.

TESTING VOLTAGE : 3,500 Volts

CABLE STRUCTURE

CONDUCTOR : Concentric stranded or compacted stranded copper

Size 1.5 - 400 mm²

FIRE BARRIER : Mica tape

INSULATION : Low smoke & halogen free
Cross-Linked polyethylene

CORE IDENTIFICATION :

Single core, color as request

CLASSIFICATION

Maximum Conductor Temperature : 90°C

Circuit Voltage does not exceed

600/1,000 Volts (U₀/U)

600 Volts between Line to Earth (U₀)

1,000 Volts between line to line (U)

Technical Data

| Nominal cross sectional area | Number of wires | Diameter of wires (approx.) | Nominal insulation thickness | Overall diameter (approx.) | Maximum conductor resistance at 20°C | Minimum insulation resistance at 70°C | Current rating in free air 40°C ambient | Cable weight (approx.) | Standard packing |
|------------------------------|-----------------|-----------------------------|------------------------------|----------------------------|--------------------------------------|---------------------------------------|---|------------------------|------------------|
| mm ² | No. | mm | mm | mm | Ω/km | MΩ-km | A | kg/km | m |
| 1.5 | 7 | 1.56 | 0.7 | 8 | 12.10 | 2,400 | 27 | 63 | 100/C |
| 2.5 | 7 | 2.01 | 0.7 | 9 | 7.41 | 2,100 | 36 | 77 | 100/C |
| 4 | 7 | 2.55 | 0.7 | 9 | 4.61 | 1,800 | 48 | 97 | 100/C |
| 6 | 7 | 3.12 | 0.7 | 10 | 3.08 | 1,500 | 61 | 121 | 1,000/D |
| 10 | 6 | 3.70 | 0.7 | 11 | 1.83 | 1,200 | 82 | 169 | 1,000/D |
| 16 | 6 | 4.65 | 0.7 | 11 | 1.15 | 1,100 | 110 | 222 | 1,000/D |
| 25 | 6 | 5.84 | 0.9 | 13 | 0.727 | 1,100 | 145 | 322 | 1,000/D |
| 35 | 6 | 6.89 | 0.9 | 15 | 0.542 | 1,000 | 180 | 419 | 1,000/D |
| 50 | 6 | 7.96 | 1.0 | 16 | 0.387 | 900 | 220 | 542 | 1,000/D |
| 70 | 12 | 9.65 | 1.1 | 18 | 0.268 | 900 | 280 | 758 | 1,000/D |
| 95 | 15 | 11.30 | 1.1 | 20 | 0.193 | 800 | 345 | 1,019 | 1,000/D |
| 120 | 18 | 12.85 | 1.2 | 21 | 0.153 | 800 | 400 | 1,261 | 1,000/D |
| 150 | 18 | 14.10 | 1.4 | 23 | 0.124 | 800 | 460 | 1,545 | 1,000/D |
| 185 | 30 | 15.95 | 1.6 | 25 | 0.0991 | 800 | 530 | 1,913 | 1,000/D |
| 240 | 34 | 18.35 | 1.7 | 28 | 0.0754 | 700 | 630 | 2,477 | 1,000/D |
| 300 | 34 | 20.40 | 1.8 | 31 | 0.0601 | 700 | 725 | 3,071 | 1,000/D |
| 400 | 53 | 23.25 | 2.0 | 34 | 0.0470 | 700 | 840 | 3,881 | 1,000/D |

C : Packing in coil
D : Packing in drum

Core Color : Orange or Red