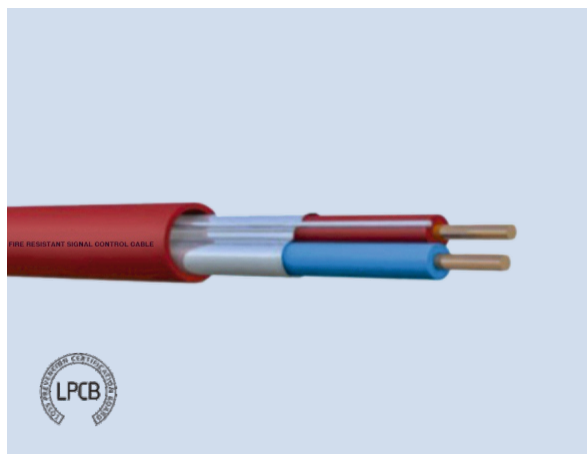


# FIRE RESISTANT SIGNAL CONTROL CABLE



NORDEN fire-resistant signal control cables are manufactured to meet specific fire-resistant cable standards. These cables ensure reliable circuit integrity, keeping emergency evacuation systems operational even while burning. Fire-resistant signal control cables can be used for fire alarm systems, power supply, or control of equipment that needs to function during a fire, such as warning systems, emergency lighting, evacuation, and monitoring systems. They are suitable for use in intelligent or semi-intelligent buildings with dense human populations or valuable goods, such as hospitals, cinemas, theatres, schools, shopping centres, airports, factories, and hotels. These cables have low smoke density, are halogen-free, and do not emit poisonous gases.



## CABLE CONSTRUCTION

### Conductor

Electrolytic Copper  
EN 60228 Class 1 (Solid) &  
Class 2 (Stranded)

### Insulation

EN 50363-1 E12 Cross-linked  
Ceramic Forming Polymer Compound

### Insulation Colour

2-core : Brown, Blue or Brown, Brown  
3-core : Brown, Black, Grey  
4-core : Blue, Brown, Black, Grey

### Separator

Pes Tape

### Overall Screen

Al-Pes Tape

### Drain Wire

Tinned Copper

### Sheath

EN 50290-2-27 HFFR Compound

### Standard Packing Mode

100 mtr / Plywood Reel  
500 mtr / Plywood Reel (optional)

### Sheath Color

Red (RAL 3000 )

| Flame Tests  | Insulation Integrity  | Smoke Density                                | Corrosive Gas & Halogen Free Measurement   |
|--|---|--|--|
| IEC 60332-1-2,<br>VDE 0482-332-1-2,<br>EN 60332-1-2,<br>IEC 60332-3-24,<br>VDE 0482-332-3-24,<br>EN 60332-3-24 | BS 6387: 2013 (C,W,Z)<br>Cat,C fire @ 950°C - 180 min<br>Cat,W fire and water @ 650°C -15 +15 min<br>Cat,Z fire and mechanical shocks @ 950°C - 15 min<br>IEC 60331-21 (FE180)<br>EN 50200<br>VDE 0482-200<br>EN 50200 PH 120 | IEC 61034-2<br>VDE 0482-1034-2<br>EN 61034-2 | IEC 60754-2<br>VDE 0482-267-2-3<br>EN 50267-2-3<br>IEC 60754-1<br>VDE 0482-267-2-1<br>EN 50267-2-1 |

## ELECTRICAL & MECHANICAL CHARACTERISTICS

| Properties                   | Value             |                     |                     |
|------------------------------|-------------------|---------------------|---------------------|
|                              | 1 mm <sup>2</sup> | 1.5 mm <sup>2</sup> | 2.5 mm <sup>2</sup> |
| Max. Conductor Resistance    | 18.1Ω/km          | 12.1Ω/km            | 7.41 Ω/km           |
| Operating Voltage            | 300/500V          |                     |                     |
| Test Voltage                 | 2000 V            |                     |                     |
| Temperature Rating (Fixed)   | -30°C to + 70°C   |                     |                     |
| Temperature Rating (Flexing) | -5°C to + 50°C    |                     |                     |
| Min. Bend Radius             | 6 x D             |                     |                     |

# FIRE RESISTANT SIGNAL CONTROL CABLE



## PHYSICAL INFORMATION

| Nom. Cond. Cross-Sect. (mm <sup>2</sup> ) | Earth Wire Size (mm <sup>2</sup> ) | Cable Diameter (mm) (± 10 %) | Weight Kg/km |
|---|------------------------------------|------------------------------|--------------|
| 2 x 1.0                                   | 0.5                                | 6.00                         | 65           |
| 2 x 1.5                                   | 0.5                                | 7.00                         | 79           |
| 2 x 2.5                                   | 0.5                                | 8.40                         | 113          |
| 3 x 2.5                                   | 0.5                                | 9.10                         | 153          |

## ORDERING INFORMATION

| Part Number | Description   |
|-------------|---|
| 6Q-1002XY   | Fire Resistant Signal Control Cable 2C x 1.0 mm <sup>2</sup>          |
| 6Q-1502XY   | Fire Resistant Signal Control Cable 2C x 1.5mm <sup>2</sup>           |
| 6Q-2502XY   | Fire Resistant Signal Control Cable 2C x 2.5mm <sup>2</sup>           |
| 6Q-2503XY   | Fire Resistant Signal Control Cable 3C x 2.5mm <sup>2</sup>           |
| 6Q-1R02X    | Stranded Fire Resistant Signal Control Cable 2C x 1.5 mm <sup>2</sup> |
| 6Q-1R03X    | Stranded Fire Resistant Signal Control Cable 3C x 1.5 mm <sup>2</sup> |
| 6Q-1R04X    | Stranded Fire Resistant Signal Control Cable 4C x 1.5 mm <sup>2</sup> |
| 6Q-2R02X    | Stranded Fire Resistant Signal Control Cable 2C x 2.5 mm <sup>2</sup> |
| 6Q-2R03X    | Stranded Fire Resistant Signal Control Cable 3C x 2.5 mm <sup>2</sup> |
| 6Q-2R04X    | Stranded Fire Resistant Signal Control Cable 4C x 2.5 mm <sup>2</sup> |

X (Colour code) → RD : Red

Y (Packing Length) → 1 : 100mtr, 2 : 500mtr, 5 : 300mtr