

## 2x18 AWG Overall Foil–Shielded Control and Fire Alarm Cable

### Teldor P/N 8101802103

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**GENERAL CONSTRUCTION:**

Control and fire alarm cable, rated at 105C for indoor and outdoor, fixed applications.

The cable contains 2 conductors, cabled, overall shielded with a polyester–aluminum foil and jacketed with a Red FRPVC compound.

**1. Basic Wires:**

- 1.1. Conductor: Solid bare copper, 1.02mm, 18 AWG.
- 1.2. Insulation: PVC compound, rated at 105C.
- 1.3. OD: 2.0 mm nom.

**2. Cable Construction:**

- 2.1. Total number of wires: 2.
- 2.2. Color Code: Black x Red.
- 2.3. Two wires are cabled together and wrapped with a separation tape.

**3. Overall Shield:**

Polyester–aluminum foil, providing 100% coverage, laid in close contact with a tin–plated, 22 AWG stranded (7x0.254 mm) drain–wire.

**4. Outer Jacket:**

- 4.1. Material: FR PVC compound.
- 4.2. Color: Red, UV resistant.
- 4.3. Thickness: 1.0 mm nom.
- 4.4. OD: 6.1 mm nom.
- 4.5. Marking: Per request.

**5. Electrical Properties:**

- 5.1. DC Resistance: 21.5 Ohm/Km max. @ 20C.
- 5.2. Voltage Rating: 300 V rms.
- 5.3. Dielectric Strength: 1000 volts/1 minute between conductors.  
500 volts/1 minute between conductors and shield.
- 5.4. Mutual Capacitance: 190 pF/m nom. @ 800 Hz.  
pair to shield: 350 pF/m nom. @ 800 Hz.
- 5.5. Velocity of Propagation: 45% nom.

**6. General Properties:**

- 6.1. Total Weight: 50.0. kg/km nom.
  - 6.2. Flame Test: IEEE 383.
  - 6.3. Temperature Range: –40C to +105C.
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