

# Fire Resistant Cables

## Single core, Unscreened, PVC Sheath

### BS6387 CWZ

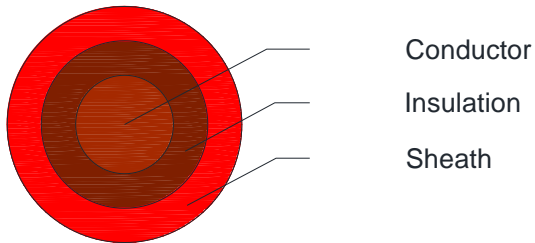


CI 760, CI 761

#### Applications

Single core Fire Resistant cable for Building and Industrial Management Systems

#### Cross Section Drawing



#### Design

| Unit                   | Properties   |
|------------------------|--|
| Conductor              | Solid Bare Copper wire   |
| Insulation             | Silicon Rubber blend Possible colours: Brown, Yellow, Red, Blue and Green/yellow |
| Sheath Material        | Halogen Free Flame-Retardant (HFFR) Colour: red                                  |
| Standard Put Up Length | 305 or 500 meters  |

\*Other Colors, Put Up Lengths and structures can be manufactured upon request, please contact your local B3 International sales representative.

**Fire Resistant Cables**  
**Single core, Unscreened, PVC Sheath**  
**BS6387 CWZ**



**C1760, C1761**

**Physical Characteristics**

| Part Number                           | C1760   | C1761 |
|---------------------------------------|---|-------|
| Cross section (mm <sup>2</sup> )      | 1.5   | 2.5   |
| Nom. Conductor diameter (mm)          | 1.4   | 1.8   |
| Nom. Radial Thickness Insulation (mm) | 0.7   | 0.8   |
| Nom. Diameter Insulation (mm)         | 2.8   | 3.4   |
| Nom. Overall Diameter (mm)            | 3.98  | 4.58  |
| Operating Temperature (°C)            | -20 to +90  |       |
| Installation Temperature (°C)         | -15 to +90  |       |
| Min. Bend Radius (install) (mm)       | 60  | 70    |
| Nominal Cable Weight (kg/km)          | 54  | 70    |
| Max. recommended pulling tension (N)  | 205   | 335   |
| Fire Resistance to BS6387, Cat. C     | Exposed to fire at 950°C for 3 hours  |       |
| Fire Resistance to BS6387, Cat. W     | Exposed to fire at 650°C for 15 minutes, then exposed to fire at 650°C with water for 15 minutes            |       |
| Fire Resistance to BS6387, Cat. Z     | Exposed to fire at 650°C for 15 minutes, then exposed to fire at 650°C with mechanical shock for 15 minutes |       |

**Electrical Characteristics (at 20°C)**

| Part Number                             | C1760    | C1761 |
|---|----------|-------|
| Max. DC Resistance Conductor (Ω/km)     | 12.1     | 7.41  |
| Min. Insulation Resistance (MΩ*km)      | 200      |       |
| Max. recommended current at 25°C (Amps) | 21       | 30    |
| Max. Operating Voltage (Vrms)           | 600/1000 |       |

**Reference Standards**

|  |                |
|--|----------------|
| EN 50267-2-1,                              | BS 6387 CWZ    |
| BS 7655-Type E12, BS 7655.1.1, BS 7655.6.1 | BS 6234        |
| EN 50290-2                                 | BS 6360        |
| IEC 60332-3-24                             | IEC 60754-1&-2 |
| IEC 60331-21                               | IEC 61034      |