

# Fire Resistant Cables

## Two core, Overall Screen, HFFR Sheath

### BS6387 CWZ

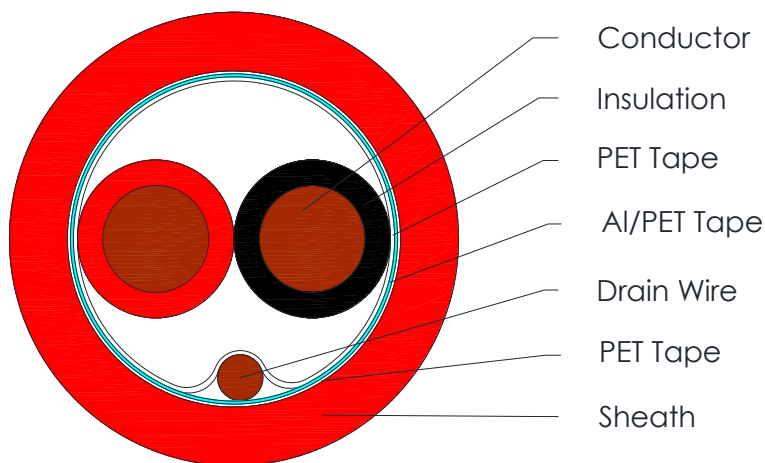


C5080

#### Applications

Screened two core Fire Resistant cable for Building and Industrial Management Systems

#### Cross Section Drawing



#### Design

Unit	Properties
Conductor	Solid Bare Copper wire
Insulation	Ceramifiable Silicon Rubber Core 1: Black Core 2: Red
Wrapping tape	PET tape
Drain Wire	Solid Tinned Copper wire
Screen	Aluminium/Polyester tape
Wrapping tape	PET tape
Sheath Material	Halogen Free Flame-Retardant (HFFR) Standard Colour: Red
Standard Put Up Length	305 and 500 metres

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

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**C5080**

#### Physical Characteristics

Part Number	C5080
No of cores x Conductor Size (AWG)	2 x 18
Nom. Diameter Conductor (mm)	1.0
Nom. Radial Thickness Insulation (mm)	0.7
Nom. Cross Section Drain Wire (mm <sup>2</sup> )	0.50
Screen Coverage (%)	115
Nom. Overall Diameter (mm)	6.2
Cable weight (kg/km)	49
Operating Temperature (°C)	-20 to +90
Installation Temperature (°C)	-15 to +90
Minimum bending radius (mm)	62
Max. recommended pulling tension (N)	205
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 950°C for 15 minutes, then exposed to fire at 950°C with mechanical shock for 15 minutes
Fire Resistance to IEC 60331-21	Exposed to fire at 750°C for 90 minutes
Flame Retardancy	IEC 60332-3-24

#### Electrical Characteristics at 20°C

Part Number	C5080
Max. DC Resistance Conductor (Ω/km)	24.5
Min. Insulation Resistance (MΩ*km)	200
Max. recommended current at 25°C (Amps)	12
Max. Operating Voltage (Vrms)	300/500

#### Reference Standards

EN 50267-2-1,	BS EN 50363-1
BS 7655.1.1, BS 7655.6.1	EN 50200 PH120
EN 50290-2-27	VDE 472-814
IEC 60228	IEC 60754-1&-2
IEC 60332-3-24	IEC 61034-1&-2
IEC 60331-21 FE180	BS 6360
BS 6387 CWZ	RoHS Directives