

# Fire Resistant Cables

## Three Core, Un-Screened, PVC Sheath

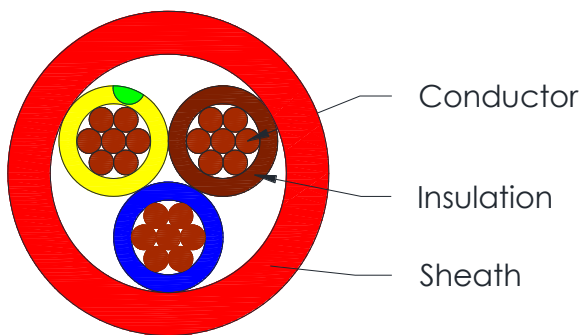


**C5079**

### Applications

Three core Fire Resistant cable for Building and Industrial Management Systems

### Cross Section Drawing



### Design

Unit	Properties
Conductor	3 x Bare Copper wire
Insulation	Ceramifiable Silicon Rubber Core 1: Brown Core 2: Blue Core 3: Yellow/Green
Sheath Material	Halogen Free Flame-Retardant (HFFR) Colour: red
Standard Put Up Length	305 and 500 meters

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

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### C5079

#### Physical Characteristics

Part Number	C5079
No of cores x cross section in sqmm (mm <sup>2</sup> )	3 x 2.5
Nom. Diameter Conductor (mm)	1 x 1.8
Nom. Radial Thickness Insulation (mm)	0.8
Nom. Diameter Insulation (mm)	3.4
Nom. Overall Diameter (mm)	10.1
Cable Weight (Kg/km)	156
Operating Temperature (°C)	-20 to +90
Installation Temperature (°C)	-15 to +90
Minimum bending radius (mm)	100
Max. recommended pulling tension (N)	520
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
Fire Retardancy	IEC 60332-3C

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

Part Number	C5079
Max. DC Resistance Conductor ( $\Omega$ /km)	7.41
Mutual Capacitance (pF/m)	<100
Min. Insulation Resistance ( $M\Omega \cdot k m$ )	200
Max. recommended current at 25°C (Amps)	30
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