

Applications

Single core
Fire Resistant cable for
Building and Industrial
Management Systems

Sector - BT FIREPRO-TEC™

Standard Fire Alarm Cables

Design

1. **Conductor**
Flexible Bare
Copper wire
2. **Insulation**
Silicon Rubber blend
Possible colours: Brown,
Yellow, Red, Blue and
Green/yellow

3. Sheath Material

Halogen Free
Flame-Retardant (HFFR)
Colour: red

Standard Put Up Length
5000 metres

Physical Characteristics

BTCL Part Number	Unit	C1760	C1761
Cross section	mm ²	1.5	2.5
Nom. Radial Thickness Insulation	mm	0.7	0.8
Nom. Diameter Insulation	mm	2.78	3.38
Nom. Overall Diameter	mm	3.98	4.58
Weight	Kg/km	42	62

Electrical Characteristics (at 20°C)

BTCL Part Number	Unit	C1760	C1761
Cross section	mm ²	1.5	2.5
Max. DC Resistance Conductor	Ω/km	12.5	7.10
Min. Insulation Resistance	MΩ*km	200	200
Max. recommended current at 25°C	Amps	21	30
Max. Operating Voltage	Vrms	600/1000	600/1000

Miscellaneous

BTCL Part Number	Unit	C1760	C1761
Cross section	mm ²	1.5	2.5
Operating Temperature	°C	-20 to +90	-20 to +90
Installation Temperature	°C	-15 to +90	-15 to +90
Minimum bending radius	mm	40	46
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	
Fire Resistance to IEC 60331-21		Exposed to fire at 750°C for 90 minutes	
Fire Retardancy		IEC 60332	
Other relevant standards		BS EN 50267-2-1, BS 6234, BS 6360, BS 7655.1.1 and BS7655.6.1	