



**Date: 18 July 2018**

**Part No.: PX79257**

Flame Retardant RG6 Coaxial Cable	1.02mm BC / 4.58mmFPE/ Cu braiding/ FR LSZH
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## Cable Specification

1.02mm BC, 4.58mmFoamed PE , 96\*0.12mm Cu Braiding , 6.82mm FR LSZH

## Construction

Conductor:	18AWG annealed copper
Insulation:	Foamed PE
Insulation Dia.:	4.58mm ±0.20mm
Thickness:	1.78mm
Braid:	Cu braid,16/6/0.12mm
Jacket:	LSZH, flame retardant , anti-termite and anti-rodent
Thickness:	0.80mm
Overall Diameter:	6.82mm±0.20mm

## Physical Properties

Temperature Rating:	90 °C
Approx.weight:	56kg/km
Min.bending radius:	15*Overall Diameter

## Electrical Performance

Voltage rating	30V
Capacitance:	54+/-2 pF/m
Impedence:	75 +/-3 Ohm
Conductor resistance at20°C:	21.8 Ω/km
Velocity of Propagation:	83+/-1%
Screening Attenuation:	≥85dB



**Caledonian**

Phoenix Place North Street,  
Lewes, Sussex BN7 2QJ England  
Tel: +44 (0) 1273 478736  
Fax: +44 (0) 1273 473682

Development Mansion, # 3218 Second  
Loop East Road, Jinan, Shandong China  
Tel: +86 531 88065570  
Fax: +86 531 81900570

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Insulation resistance at 20 °C: >5000 Mohm/km

### *Attenuation*

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<b>Frequency (MHz)</b>	<b>Attenuation ≤ (dB/100m)</b>
50	5.20
100	7.10
200	9.90
400	13.19
800	19.02
860	19.57
1000	21.45
1350	23.65
1750	27.10
2150	29.90
2400	31.70



<b>Flame Retardant</b>	1×2×1.0mm <sup>2</sup> /2×2×22AWG Cu/ LSZH/ OS/ FR LSZH
<b>Twisted Pair Cable</b>	
<b>Comply to:IEC60332-3</b>	

### Application:

These cables are specially designed for requirements concerning the smoke density and acidic gas emitted in case of fire. FIRETOX Cables are made with well chosen materials that not only can fulfill the conventional requirements of Low Smoke Halogen Free, but also can reduce flame propagation in those instance where fire may develop.

### Construction:

- Conductor: Stranded annealed copper/tinned copper wires to BS 6360, class 2
- Insulation: Low smoke,zero halogen (LSZH) insulated
- Nominal thickness: 0.4-0.5 mm
- Twisting: Two colored insulated conductors are uniformly twisted together to form a pair.
- Screen: Overall Aluminium/Polyester tape applied with the metallic side down in electrical contact with a 0.5 mm<sup>2</sup> tinned copper drain wire(7\*0.31mm formation).  
A 23 micron polyester tape is applied over the screening tape with a minimum 50% overlap.
- Sheathing: Flame retardant LSZH with anti-termite and anti-rodent additive
- Nominal thickness: 0.7mm
- Overall diameter: 1×2×1.0 mm<sup>2</sup>: 6.3+/-0.2mm, 2×2×0.35mm<sup>2</sup>: 6.86+/-0.2mm,
- Packing: The cables are delivered on non-returnable wooden drums.
- Standard IEC 60332-3

### Physical characteristics:

- Temperature rating: -40 to +90 °C
- Minimum bending radius  
-for fixed wiring: 20mm
- Flame retardant: IEC60332-3
- Water resistant: IEC60529



## *Fire Retardancy Characteristics (For LSZH sheath):*

Flame Propagation: IEC 332-1

Corrosive and Acid Gas Emission Test: Hydrochloric acid yield less than 0.5% in accordance with IEC 60754-1&2

Smoke Density: Percentage of light transmitted is greater than 60% when tested in accordance with IEC 61034-1&2

Flammability: Temperature Index is around 250-280 deg when tested according to ISO 4589 or BS 2782 Part 1 Method 143A & 143

## *Electrical characteristics:*

Rated voltage :	300/500V
Max conductor resistance at 20°C :	
- for 1×2×1.0mm <sup>2</sup> :	≤18.2 Ohm/Km
- for 2×2×22AWG:	≤48.4 Ohm/Km
Min insulation resistance :	≥100 M ohm/Km
Test voltage:	1000V



**Part No.:PC79346**

<b>Flame Retardant Multi-core Instrument Cable</b>	6C×20AWG TC/ LSZH/ Wrapping/ OS/ FR LSZH
<b>Comply to:IEC60332-3</b>	

### Application:

These cables are specially designed for requirements concerning the smoke density and acidic gas emitted in case of fire. FIRETOX Cables are made with well chosen materials that not only can fulfill the conventional requirements of Low Smoke Halogen Free, but also can reduce flame propagation in those instance where fire may develop.

### Construction:

- Conductor: Stranded annealed tinned copper wires to BS 6360, class 2
- Insulation: Low smoke,zero halogen (LSZH) insulated
- Nominal thickness: 0.4 mm
- Wrapping: Polyester tape
- Screen: Overall Aluminium/Polyester tape applied with the metallic side down in electrical contact with a 0.5 mm<sup>2</sup> tinned copper drain wire(7\*0.31mm formation).  
A 23 micron polyester tape is applied over the screening tape with a minimum 50% overlap.
- Sheathing: Flame retardant LSZH with anti-termite and anti-rodent additive
- Nominal thickness: 0.7mm
- Overall diameter: 6.59+/-0.2mm
- Packing: The cables are delivered on non-returnable wooden drums.
- Standard IEC 60332-3

### Physical characteristics:

- Temperature rating: -40 to +90°C
- Minimum bending radius  
-for fixed wiring: 20mm
- Flame retardant: IEC60332-3
- Water resistant: IEC60529



## *Fire Retardancy Characteristics (For LSZH sheath):*

Flame Propagation: IEC 332-1

Corrosive and Acid Gas Emission Test: Hydrochloric acid yield less than 0.5% in accordance with IEC 60754-1&2

Smoke Density: Percentage of light transmitted is greater than 60% when tested in accordance with IEC 61034-1&2

Flammability: Temperature Index is around 250-280 deg when tested according to ISO 4589 or BS 2782 Part 1 Method 143A & 143

## *Electrical characteristics:*

Rated voltage :	300/500V
Max conductor resistance at 20°C :	≤33.8 Ohm/Km
Min insulation resistance :	≥100 M ohm/Km
Max inductance / resistance (L/R) ratio:	25 uH/ Ohm
Max. mutual capacitance at 1KHz:	120 pF/m
Capacitance unbalance at 1khz:	250 pF/ 250m
Test voltage:	
- core :core	1000V
- core: screen	1000V