

## Indoor Mono Tube Fire Resistant Cable - Singlemode

### Product Details:

A fire resistant mono tube cable featuring heat resistant Mica tape, glass yarns and an LSZH jacket making it suitable for use in applications such as fire alarm systems, requiring up to 120 minutes of fire resistance in accordance with IEC 60331-25.

### Features and Benefits:

- Fire resistant to IEC 60331-25 @ 750°C 120 minutes
- Heat resistant Mica tape
- Red LSZH UV resistant jacket
- Aramid glass yarns provide protection and strength
- Mono tube gel filled construction



### Physical Characteristics:

<b>Number of Fibres</b>	<b>6</b>		<b>12</b>	
<b>Number of Fibres per Tube</b>	up to 12			
<b>Number of Elements</b>	1			
<b>Tube/Filler Diameter</b>	2.8mm			
<b>Nominal Cable Diameter</b>	75mm			
<b>Nominal Cable Weight</b>	60kg/km			
<b>Max. Tensile Strength</b>	2.0kN			
<b>Max. Crush Resistance</b>	2.5kN/100mm (Long Term)			
<b>Max. Impact</b>	10 Joules			
<b>Min. Bending Radius</b>	15 x cable OD Installation		10 x cable OD Long term	
<b>Temperature Range</b>	Storage: -40° to 70°C	Installation: -5° to 50°C	Operation: -30° to 70°C	
<b>Waterblocking</b>	Thixotropic Gel filled tube			
<b>Fire Protection Material</b>	Mica Tape			
<b>Rodent Protection</b>	Glass Yarns			
<b>Outer Sheath</b>	Material: UV Resistant LSZH. Colour: Red			
<b>Flame Retardant</b>	IEC 60332-1			
<b>Fire Retardant</b>	IEC 60332-3-24			
<b>Fire Resistance</b>	IEC 60331-25 120 minutes @ 750°C Max Attenuation 0.5dB			

### Identification:

#### Fibre & Buffer Colour Code Chart

<b>No.</b>	1	2	3	4	5	6	7	8	9	10	11	12
<b>Colour</b>	blue	orange	green	brown	grey	white	red	black	yellow	violet	pink	aqua

Fillers are either natural (opaque) or black, jelly filled tubes (with no fibres) are also used.

In support of our policy of continuous product improvement we reserve the right to change materials and specifications without notice. Drawings, where used, are not to scale. All dimensions are in millimetres and sizes given are approximate. Where possible, technical MSDS data sheets are made available on the website. All products should be installed and used in accordance with manufacturer's instructions provided. Warning: products may be the subject of registered designs and patents. Refer to website for terms and conditions on warranty.

### Optical Characteristics - Singlemode Low Water Peak:

<b>Compliant with the following standards:</b> ISO/IEC 11801, IEC 60793-2-50, ITU-T G652.D	
<b>Optical Properties</b>	
<b>Fibre Type</b>	<b>SM/OS2</b>
<b>ITU-T Standard</b>	G.652.D
<b>Mode Field Diameter</b>	8.6-9.4um @1310nm      9.6-10.6um @1550nm
<b>Cladding Diameter</b>	125.0 +/- 0.7um
<b>Buffer Diameter</b>	242 +/- 7um
<b>Max. Attenuation of Cable</b>	
<b>@ 1310nm</b>	0.35dB/km
<b>@ 1383nm</b>	0.35dB/km
<b>@ 1550nm</b>	0.25dB/km
<b>@ 1625nm</b>	0.38dB/km

### Ordering Information:

<b>Number of Cores</b>	<b>SM/OS2</b>
6	<b>CAB-MT-06-SMFR</b>
12	<b>CAB-MT-12-SMFR</b>

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