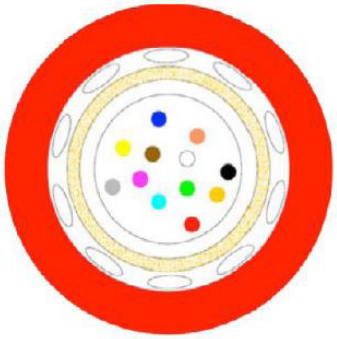
PRODUCT DATA SHEET

Indoor Mono Tube
Fire Resistant Fibre – Singlemode

FEATURES



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

PRODUCT DESCRIPTION

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 which require up to 120 minutes of fire resistance in accordance with IEC 60331-25.

Note: This is an indent item, lead times of up to 6-8 weeks may apply.

PHYSICAL CHARACTERISTICS

Number of fibres	6	12
Number of fibres per tube	up to 12	
Number of elements	1	
Tube/filler diameter	2.8mm	
Nominal cable diameter	7.5mm	
Nominal cable weight	60kg/km	
Max. tensile strength	2.0kN	
Max. crush resistance	2.5kN/100mm (long term)	
Max. impact	10 joules	
Min. bending radius	15 x cable OD installation 10 x cable OD long term	
Temperature range	Storage: -40ºC to 70ºC Installation: -5ºC to 50ºC Operation: -30ºC to 70ºC	
Waterblocking	Thixotropic gel filled tube	
Fire Protection Material	Mica tape	
Rodent protection	Glass yarns	
Outer sheath	Material: UV resistant LSZH jacket enabling it to be used outdoors. Colour: red.	
Flame retardant	IEC 60332-1	
Fire retardant	IEC 60332-3-24	
Fire resistance	IEC 60331-25 120 minutes @ 750ºC max attenuation 0.5dB	
ACMA compliance	AS/ACIFS008 (test report F0-2018-051)	

Note: This product is not mechanically armed and will require mechanical protection, e.g. steel conduit, in cable trays or concealed in the ground.

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IDENTIFICATION

Fibre & Buffer Colour Code Chart

No.	1	2	3	4	5	6	7	8	9	10	11	12
Colour	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.

OPTICAL CHARACTERISTICS - SINGLEMODE LOW WATER PEAK

Compliant with the following standards: ISO/IEC 11801, IEC 60793-2-50, ITU-T G.652.D	
Optical properties	
Fibre type	SM/OS2
ITU-T standard	G.652.D
Mode field diameter	8.6-9.4um @ 1310nm 9.6-10.6um @ 1550nm
Cladding diameter	125.0 +/- 0.7um
Buffer diameter	242 +/- 7um
Max. attenuation of cable	
@ 1310nm	0.35dB/km
@ 1383nm	0.35dB/km
@ 1550nm	0.25dB/km
@ 1625nm	0.38dB/km

ORDERING INFORMATION

FRF-MT-06-SMFR	Fire Resistant 6 Core Singlemode Fibre Cable per metre
FRF-MT-12-SMFR	Fire Resistant 12 Core Singlemode Fibre Cable per metre

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