MSS DATA SOLUTIONS

DATASHEET

Indoor Mono Tube Fire Resistant Cable - Singlemode

MSS FIBRE SYSTEMS



PRODUCT INFORMATION

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 & 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

Number of Fibres	6	12
Number of Fibres per Tube	up to 12	
Number of Elements	1	
Tube/Filler Diameter (mm)	2.8	
Nominal Cable Diameter (mm)	7.5	
Nominal Cable Weight (kg/km)	60	
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 (°C)	Storage: -40° to 70°C	Installation: -5° to 50°C Operation: -30° to 70°C
Waterblocking	Thixotropic Gel filled tube	
Fire Protection Material	Mica Tape	
Rodent Protection	Glass Yarns	
Outer Sheath	Material: UV Resistant LSZH. Colour: Red	
Flame Retardant	IEC 60332-1	
Fire Retardant	IEC 60332-3-24	
Fire Resistance	IEC 60331-25 120 minutes @ 750°C Max Attenuation 0.5dB	

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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 G652.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

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

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