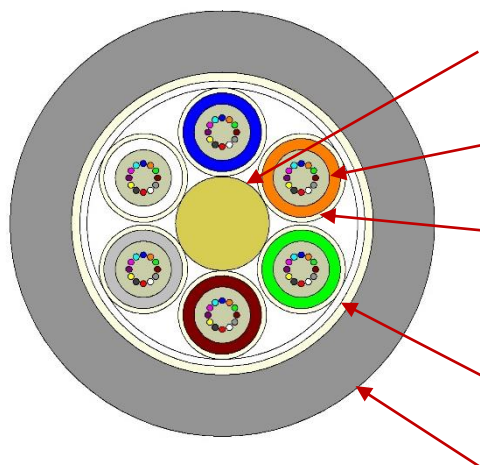


FIRETUF 2~144 Fibres LTFIM Series Fire Resistant Non-Metallic LSZH Cable



- **Central strength member (CSM):** glass fibre reinforced plastic material (FRP) with PE coating when needed.
- **Tube:** thermoplastic material, containing 12 optical fibres and filled with a suitable water tightness compound.
- **Fire resistance layer:** wrapped around loose tubes.
- **Stranding:** the required number of elements (tubes or fillers) are SZ stranded around the central strength member.
- **Core Wrapping:** water-blocking tape & yarns (dry core) and fire resistant layer.
- **Outer Sheath:** LSZH.

- not to scale -

Application

The application of this cable is where a very high degree of fire safety is required as the cable will function during a fire. Suitable installation is indoor and indoor/outdoor in and between public buildings, in tunnels, metro lines and other places where need very high degree of fire safety and support for critical communication, UV resistant.

Standards

IEC 60794-3-10
 IEC 60332-3-24, IEC 60332-1, IEC 60754-1/2, IEC 61034-2
 IEC 60331-25 90minutes 750°C
 BS 6387 180minutes 950°C
 TIA 598
 RoHS

Technical data

No. of Fibres		2, 4, 6, 8, 12, 24, 48, 72	96	144
Design (Elements x Fibre/Tube)		6x12	8x12	12x12
Loose Tube / Filler - Ø	mm	2.3	2.3	2.3
CSM/sheath diameter	mm	3.0	3.0/4.8	3.0/8.4
Outer sheath thickness	mm	2.0	2.0	2.0
Cable normal Diameter	mm	13.0	14.8	18.4
Cable Weight	kg / km	186	237	364
Min. bending radius	mm	Without Tension 10 x Cable-Ø		Under Maximum Tension 20 x Cable-Ø
Temperature range	°C	Installation -10 -> +60;	Transport & Storage -40 -> +70;	Operation -40 -> +70

Main characteristics

Test	Standard	Value	Sanction*
Maximum tension at installation (short term)	IEC 60794-1-2-E1	2700 N	$\Delta l/l$ fibre strain $\leq 0.6\%$, $\Delta\alpha$ reversible
Crush	IEC 60794-1-2-E3	1500 N / 100mm	$\Delta\alpha \leq 0.1\text{dB}(\text{SM})$, $0.3\text{dB}(\text{MM})$
Temperature range	IEC 60794-1-2-F1	-40 -> +70°C	$\Delta\alpha \leq 0.1\text{dB/km}(\text{SM})$, $0.3\text{dB/km}(\text{MM})$
Water penetration	IEC 60794-1-2-F5C	sample=3m, water=1m	No water leakage after 24 hours

* values for multi-mode fibres, all optical measurements performed at 1300 nm

* values for single-mode fibres, all optical measurements performed at 1550 nm

Optical Characteristics

See the attached cabled optical fibre data sheet.

Identification

Fibre Colours

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

Buffer Tube Colours

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

Sheath Colour :

Outer Sheath : Black

Sheath Marking:

The outer sheath is inkjet marked in 1 meter intervals as follows:

PRYSMIAN FIRETUF FIBRE OPTIC FIRE RESISTANT CABLE NON METALLIC LSZH < UC Part Number>
<BATCHCODE> <FIBRE QTY x FIBRE TYPE> <XXXX>M

<UC Part Number> : LTFIM<***><MY>

<***> : Fibre core qty i.e. 2 to 144 fibre

<MY> : Transmission mode i.e. **M1** = OM1 , **M2** = OM2 , **M3** = OM3 , **M4** = OM4 , **SM** = G.652D , **A1** = G.657A1 ,
A2 = G.657A2

<FIBRE TYPE> : OM1 / OM2 / OM3 / OM4 / G.652D / G.657A2 / G.657A1

<BATCHCODE> : Factory defined tracking code, e.g. MM/YYYY or WW/YYYY

<FC> : Draka defined factory code

<XXXX> : increasing length marking by 1 meter

Logistic

Packing:

Wooden drums with protection.

Delivery Lengths:

Standard delivery length is 2 km with a tolerance of $\pm 5\%$.

Ordering information

UC Part Number	SAP1C	Description	Fibre count	Fibre type
LTFIM004SM	TBC	FIRETUF NON METALLIC FIBRE OPTIC CABLE FRP/LOOSE TUBE/MICA/LSZH, BLACK, 4C 9/125um G.652D	4	G652D
LTFIM006SM	TBC	FIRETUF NON METALLIC FIBRE OPTIC CABLE FRP/LOOSE TUBE/MICA/LSZH, BLACK, 6C 9/125um G.652D	6	G652D
LTFIM012SM	TBC	FIRETUF NON METALLIC FIBRE OPTIC CABLE FRP/LOOSE TUBE/MICA/LSZH, BLACK, 12C 9/125um G.652D	12	G652D
LTFIM024SM	TBC	FIRETUF NON METALLIC FIBRE OPTIC CABLE FRP/LOOSE TUBE/MICA/LSZH, BLACK, 24C 9/125um G.652D	24	G652D

Enquiries

Please contact our local sales office or email to: mms.asia@prysmiangroup.com

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Ask about UC CONNECT for a complete Structured Cabling Solutions with 25 Years System Warranty.

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