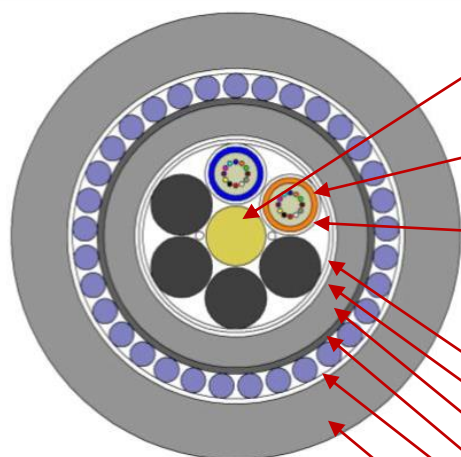


FIRETUF 4~96 Fibres LTFIPNWM Series Fire Resistant SWA LSZH Cable



- **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:** mica tape 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).
- **Fire resistance layer:** ceramic tape.
- **Inner sheath:** HDPE.
- **Middle sheath:** nylon.
- **Armour:** galvanized steel wire, wrapped with tape.
- **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 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.

The cable is specially designed for harsh environments. The multilayer inner sheath HDPE/PA(nylon) withstands aggressive constituents, fluids that might occur on (petro) chemical plants, aliphatic hydrocarbon resistant. The cable which is low smoke, halogen free and flame-retardant, is suitable for installation under and above ground.

- Nylon jacket provides anti-termite protection of the cable
- The steel wire armour provides anti-rodent protection
- The outer sheath is flame retardant compound to Heat & Oil and 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
 TIA 598
 RoHS

Technical data

No. of Fibres		4, 8, 16	12, 24, 36, 48, 72	96
Design (Elements x Fibre/Tube)		6x4	6x12	8x12
Loose Tube / Filler - Ø	mm	2.3	2.3	2.3
CSM/sheath diameter	mm	3.0	3.0	3.0/4.8

Outer sheath thickness	mm	2.0	2.0	2.0
Cable normal Diameter	mm	17.9	17.9	19.7
Cable Weight	kg / km	531	531	624
Min. bending radius	mm	Without Tension 15 x Cable-Ø		Under Maximum Tension 30 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	5000 N	$\Delta l/l$ fibre strain $\leq 0.6\%$, $\Delta\alpha$ reversible
Crush	IEC 60794-1-2-E3	4000 N / 100mm	$\Delta\alpha \leq 0.15\text{dB}(\text{SM})$, $0.3\text{dB}(\text{MM})$ after test
Temperature range	IEC 60794-1-2-F1	-40 -> +70°C	$\Delta\alpha \leq 0.15\text{dB/km}(\text{SM})$, $0.3\text{dB/km}(\text{MM})$
Water penetration	IEC 60794-1-2-F5C	sample=3m, water=1m(up to inner sheath)	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
colour	blue	orange	green	brown	grey	white

Sheath Colour :

Inner Sheath : Black

Middle Sheath : Black

Outer Sheath : Black

Sheath Marking:

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

**PRYSMIAN FIRETUF FIBRE OPTIC FIRE RESISTANT CABLE SWA LSZH < UC Part Number> <BATCHCODE>
<FIBRE QTY x FIBRE TYPE> <xxxx>M**

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

<***> : Fibre core qty i.e. 4 to 96 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
LTFIPNWM004SM	TBC	FIRETUF HEAVY ARMOUR FIBRE OPTIC CABLE FRP/LOOSE TUBE/MICA/HDPE/NYLON/SWA/LSZH, BLACK, 4C 9/125um G.652D	4	G652D
LTFIPNWM006SM	TBC	FIRETUF HEAVY ARMOUR FIBRE OPTIC CABLE FRP/LOOSE TUBE/MICA/HDPE/NYLON/SWA/LSZH, BLACK, 6C 9/125um G.652D	6	G652D
LTFIPNWM012SM	TBC	FIRETUF HEAVY ARMOUR FIBRE OPTIC CABLE FRP/LOOSE TUBE/MICA/HDPE/NYLON/SWA/LSZH, BLACK, 12C 9/125um G.652D	12	G652D
LTFIPNWM024SM	TBC	FIRETUF HEAVY ARMOUR FIBRE OPTIC CABLE FRP/LOOSE TUBE/MICA/HDPE/NYLON/SWA/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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