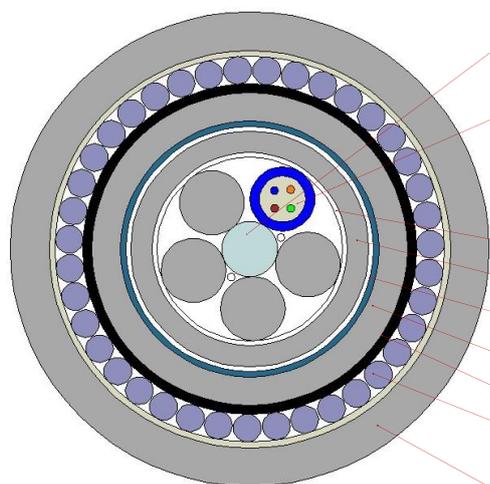


PRYSMIAN 2~48 Fibres LTFMSMNWM Series, SWA, Nylon + LSZH Sheath, Dry Core



- not to scale -

- **Central strength member (CSM):** glass fibre reinforced plastic material (FRP) with PE coating when needed
- **Tube:** thermoplastic material, containing up to 12 optical fibres and filled with a suitable water tightness compound
- **Stranding:** The required numbers of elements (tubes or fillers) are SZ stranded around the central strength member
- **Core Wrapping:** Water blocking tape (dry core)
- **Inner Sheath:** LSZH
- **Inner Armour:** Corrugated steel tape
- **Middle Sheath:** LSZH
- **Nylon sheath:** Black Nylon Polyamide 12 (PA12)
- **Outer Armour:** Galvanized steel wire, wrapped with ceramic tape.
- **Outer Sheath:** LSZH.

Application

The cable is specially designed for harsh environments. The cable which is low smoke, halogen free and flame-retardant, is suitable for installation under and above ground.

- Nylon sheath provides anti-termite protection of the cable
- The steel wire armour provides anti-rodent protection
- The outer sheath is flame retardant compound and UV resistant

Standards

IEC 60794-3-10, RoHS

IEC60332-3-24, IEC60332-1, IEC60754-1/2, IEC61034-2

Technical data

No. of Fibres		2, 4, 8, 16	6,12	24, 36, 48
Design (element × fibre per tube)		5x4	5x6	5x12
Loose Tube / Filler - Ø	mm		2.0 nominal	
CSM/sheath diameter	mm		1.5 nominal	
Inner sheath thickness	mm		0.8 nominal	
Middle sheath thickness	mm		1.0 nominal	
Nylon sheath thickness	mm		0.4 nominal	
Galvanized steel wire	mm		1.0 nominal	
Outer sheath thickness	mm		1.9 nominal	
Cable Diameter	mm		18.9 nominal	
Cable Weight	kg / km		580	
Min. bending radius	mm	Without Tension 15 x Cable-Ø		Under Maximum Tension 25 x Cable-Ø
Temperature range	°C	Installation -5 -> +50;	Transport. & Storage -40 -> +70;	Operation -40 -> +70

Main characteristics

Test	Standard	Value	Sanction*
Max. installation tension	IEC 60794-1-21-E1	6000 N	No visible fibre strain, $\Delta\alpha \leq 0.05$ dB
Crush	IEC 60794-1-21-E3	4000N / 100mm	$\Delta\alpha \leq 0.3$ dB(MM), 0.05 dB(SM)
Impact	IEC 60794-1-21-E4	30 Nm, 3 impacts, r=300mm	$\Delta\alpha \leq 0.3$ dB(MM), 0.05 dB(SM)
Temperature cycling	IEC 60794-1-22-F1	-40 -> +70°C	$\Delta\alpha \leq 0.3$ dB/km(MM), 0.05 dB/km(SM)
Water penetration	IEC 60794-1-22-F5B	sample=3m, water=1m (up to inner sheath)	No water leakage after 24 hours

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

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

Loose Tube Colours

No.	1	2	3	4	5
Colour	blue	orange	green	brown	grey

Filler Colour : Black

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 FIBRE OPTIC CABLE LOOSE TUBE ARMOUR LSZH <UC Part Number> <BATCHCODE> <FIBRE QTY x FIBRE TYPE> <FC> <xxxx>M

<UC Product Code> : LTFMSMNWM<***><MY>

<***> : Fibre core qty i.e. 2 to 48 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 or steel reinforced wood drums with protection.

Delivery Lengths:

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

Enquiries

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

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