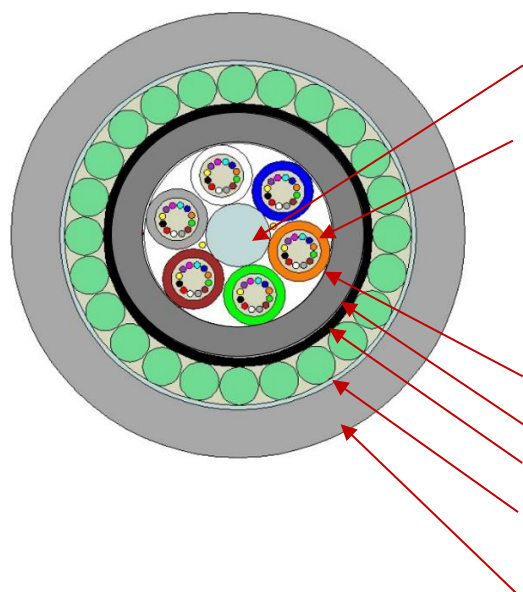


PRYSMIAN 4~72 Fibres LTFPNWM Series, SWA, LSZH Sheath Cable



-not to scale-

- **Central strength member (CSM):** glass fibre reinforced plastic material (FRP)
- **Loose Tube:** thermoplastic material, containing up to 12 optical fibres and filled with a suitable water tightness compound
- **Stranding:** the required number of elements (tubes or fillers) are SZ stranded around the central strength member
- **Core wrapping:** water swellable tape (dry core)
- **Inner Sheath:** black HDPE
- **Nylon Sheath:** black Nylon
- **Armour:** galvanized steel wire, wrapped with ceramic tape
- **Outer Sheath:** LSZH

Application

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, RoHS

IEC60332-3-22, IEC60332-1, IEC60754-1/2, IEC61034-2

Technical data

No. of Fibres		4, 8, 12, 24	32	36, 48, 72
Design (element × fibre per tube)		6x4	6x8	6x12
Loose tube / Filler nominal - Ø	mm	2.1	2.1	2.1
CSM/sheath nominal diameter	mm	2.3	2.3	2.3
Inner sheath nominal thickness	mm	1.0	1.0	1.0
Nylon sheath nominal thickness	mm	0.5	0.5	0.5
Galvanized steel wire	mm	1.0	1.0	1.0
Outer sheath nominal thickness	mm	2.0	2.0	2.0
Cable nominal diameter	mm	16.4	16.4	16.4
Cable nominal weight	kg / km	436	436	436
Min. bending radius	mm	Without Tension 15 x Cable-Ø		Under Maximum Tension 25 x Cable-Ø
Temperature range	°C	Installation -10 -> +75;	Transport. & Storage -40 -> +75;	Operation -40 -> +75

Main characteristics

Test	Standard	Value	Sanction*
Maximum Tension	IEC 60794-1-21-E1	5000N	No fibre strain, $\Delta\alpha \leq 0.05$ dB
Crush	IEC 60794-1-21-E3	4000N / 100mm	$\Delta\alpha \leq 0.1$ dB cable integrity
Temperature range	IEC 60794-1-22-F1	-40 -> +70°C	$\Delta\alpha \leq 0.1$ dB /km
Water Penetration	IEC 60794-1-22-F5C	sample=3m, water=1m (only applied for cable core & inner sheath)	No water leakage after 24 hours

* 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

Loose Tube Colours

No.	1	2	3	4	5	6
Colour	blue	orange	green	brown	grey	white

Filler Colour : Black

Sheath Colour :

Inner 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 <FIBRE QTY x FIBRE TYPE> <UC Part Number>
<Material Code> <FC> <BATCHCODE> <xxxx>M**

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

<*> :** Fibre core qty i.e. 4 to 72 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 $\pm 5\%$.

Enquiries

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

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