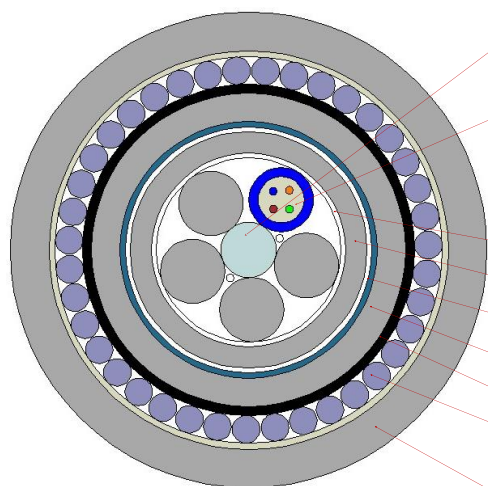


PRYSMIAN 2~48 Fibres LTFMSMNWM Series, SWA, Nylon + LSZH Sheath, Dry Core



- 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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