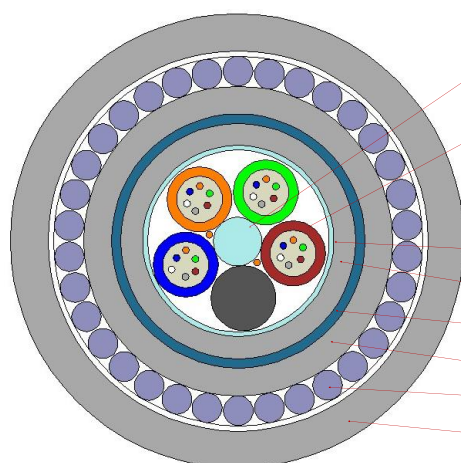


## PRYSMIAN 2 ~ 72 Fibres LTFMSMWM Series, SWA, Heavy Armoured Cable, LSZH Sheath, Dry Core



- **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
- **Outer Armour:** galvanized steel wire, wrapped with cotton 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.

- 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	6, 12	24, 36, 48	72
Design (element × fibre per tube)		5x4	5x6	5x12	6x12
Loose Tube / Filler nominal - Ø	mm	2.0	2.0	2.0	2.0
CSM/sheath nominal diameter	mm	1.5	1.5	1.5	2.2
Inner sheath nominal thickness	mm	0.8	0.8	0.8	0.8
Middle sheath nominal thickness	mm	1.0	1.0	1.0	1.0
Galvanized steel wire	mm	1.0	1.0	1.0	1.0
Outer sheath nominal thickness	mm	1.9	1.9	1.9	1.9
Cable nominal diameter	mm	17.2	17.2	17.2	17.9
Cable nominal weight	kg / km	518	518	518	548
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 -30 -> +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	-30 -> +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	6
Colour	blue	orange	green	brown	grey	white

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 SWA LSZH <UC Part Number> <BATCHCODE> <FIBRE QTY x FIBRE TYPE> <FC> <XXXX>M**

<UC Part Number> : LTFMSMWM<\*\*\*><MY>

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

### **Delivery Lengths:**

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

## Enquiries

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Please contact our local sales office or email to: [mms.asia@prysmiangroup.com](mailto:mms.asia@prysmiangroup.com)

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