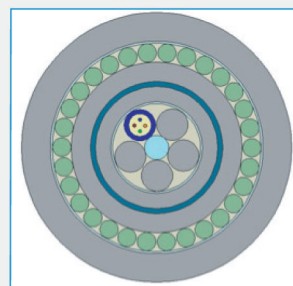


# UC<sup>FIBRE™</sup> LTFMSMNWM Series

SWA, Nylon + LSZH Sheath, Chemical/Corrosive Resistant

## Features

- **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:** polyester tape (jelly filled)
- **Inner Sheath:** MDPE (P) or LSZH (M)
- **Inner Armour:** Corrugated steel tape
- **Middle Sheath:** HDPE (P) or LSZH (M)
- **Nylon sheath:** Black Nylon Polyamide 12 (PA 12)
- **Outer Armour:** Galvanized steel wire. WB jelly filled
- **Outer Sheath:** LSZH flame retardant to IEC 60332-3C
- **Suitable for Direct Buried, Rodent /Termites/Corrosive environment. Flame retardant to LSZH to IEC 60332-3C, 61034 & 60754-1&2**



## Overview

This cable is especially designed for harsh environments. The double armour combination of corrugated steel tape and galvanized steel provide superior crush protection to the fibers. Water tightness compound within loose tube reinforced by polyester tape and jelly protects the fibers against chemical, corrosion and moisture.

## Fire Rating

- IEC 60332-1, IEC 60332-24, IEC 61034-2, IEC 60754-1/2

## Main characteristics

Test	Standard	Value	Sanction*
<b>Max. installation tension</b>	IEC 60794-1-2-E1	6000 N	No visible fibre strain, $\Delta\alpha \leq 0.05$ dB
<b>Crush</b>	IEC 60794-1-2-E3	4000N / 100mm	$\Delta\alpha \leq 0.3$ dB(MM), 0.05 dB(SM)
<b>Impact</b>	IEC 60794-1-2-E4	30 Nm, 3 impacts, r=300mm	$\Delta\alpha \leq 0.3$ dB(MM), 0.05 dB(SM)
<b>Temperature Cycling</b>	IEC 60794-1-2-F1	-30 -> +70°C	$\Delta\alpha \leq 0.3$ dB/km(MM), 0.05 dB/km(SM)
<b>Water Penetration</b>	IEC 60794-1-2-F5B	sample=3m, water=1m	No water leakage after 24 hour

\*values for single-mode fibres, all optical measurements performed at 1550 nm  
values for multi-mode fibres, all optical measurements performed at 1300 nm

## Technical data

No. of Fibres		2, 4, 8	6, 12	24, 36, 48	72	96
<b>Design (element x fibre per tube)</b>		5x4	5x6	5x12	6x12	8x12
<b>Loose Tube / Filler - Ø</b>	mm		2.0 nominal		2.0 nominal	2.0 nominal
<b>CSM/sheath diameter</b>	mm		1.5 nominal		2.2 nominal	2.0/3.5
<b>Inner sheath thickness</b>	mm		0.8 nominal		0.8 nominal	0.8 nominal
<b>Middle sheath thickness</b>	mm		1.0 nominal		1.0 nominal	1.0 nominal
<b>Nylon sheath thickness</b>	mm		0.4 nominal		0.4 nominal	0.8 nominal
<b>Galvanized steel wire</b>	mm		1.0 nominal		1.0 nominal	1.25 nominal
<b>Outer sheath thickness</b>	mm		1.9 nominal		1.9 nominal	1.9 nominal
<b>Cable Diameter</b>	mm		17.9 nominal		18.6 nominal	20.4 nominal
<b>Cable Weight</b>	kg / km		523		559	709
<b>Max installation tension</b>	N			6000		
<b>Min. bending radius</b>	mm		Without Tension 15 x Cable-Ø		Under Maximum Tension 25 x Cable-Ø	
<b>Temperature radius</b>	°C		Installation -5 -> +50;		Transport. & Storage -40 -> +70 ;	Operation -30 -> +70

## Ordering Information

UC<sup>FIBRE™</sup> LTFMSMNWM SERIES FO Cable part numbers are made up using the table below.

The part number always starts with the letters LTFMSMNWM to denote that it is a UC<sup>FIBRE™</sup> LTFMSMNWM SERIES FO Cable. This is followed by 3 numbers which symbolises the core quantity and then 2 letters to denote the fibre type.

Example of a UC<sup>FIBRE™</sup> LTFMSMNWM SERIES FO Cable part number:

**LTFMSMNWM08M1**

The above example describes an OM1 (62.5um, Orange Sheath) UC<sup>FIBRE™</sup> LTFMSMNWM SERIES FO Cable, with 8 cores.

LTFMSMNWM SERIES	CORE QUANTITY	FIBRE TYPE
LTFMSMNWM	XXX	XX
	002 - 2 CORES 004 - 4 CORES 006 - 6 CORES 008 - 8 CORES 012 - 12 CORES	024 - 24 CORES 036 - 36 CORES 048 - 48 CORES 072 - 72 CORES 096 - 96 CORES
		SM - SINGLEMODE, G652D, 9um (yellow sheath) M1 - OM1, 62.5um (orange sheath) M2 - OM2, 50um (orange sheath) M3 - OM3, 50um (aqua sheath) M4 - OM4, 50um (aqua sheath)