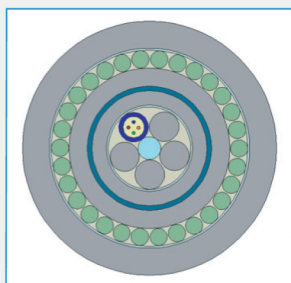


UC^{FIBRE}™ LTFMSMWM Series

2 ~ 96 Fibres, SWA, Heavy Armoured Cable, LSZH Sheath



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

Features

- **Central strength member (CSM):** gglass fibre reinforced plastic material (FRP) with PE coating when needed
- **Tube:** thermoplastic material, containing up tp 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:** LSZH
- **Inner Armour:** Corrugated steel tape
- **Middle Sheath:**LSZH
- **Outer Armour:** Galvanized steel wire. WB jelly filled, wrapped with cotton tape
- **Outer Sheath:** LSZH
- **Suitable for Direct Buried, Rodent/Termite/Water/Chemical environment.**
Flame retardant to IEC 60332-3C. LSZH to IEC 61034 & IEC 60754-1&2.

Main characteristics

Test	Standard	Value	Sanction*
Max. installation tension	IEC 60794-1-2-E1	6000 N	No visible fibre strain, $\Delta\alpha \leq 0.05$ dB
Crush	IEC 60794-1-2-E3	400N / 100mm	$\Delta\alpha \leq 0.3$ dB(MM), 0.05 dB(SM)
Impact	IEC 60794-1-2-E4	30 Nm, 3 impacts, r=300mm	$\Delta\alpha \leq 0.3$ dB(MM), 0.05 dB(SM)
Temperature Cycling	IEC 60794-1-2-F1	-3 0 -> +70°C	$\Delta\alpha \leq 0.3$ dB/km(MM), 0.05 dB/km(SM)
Water Penetration	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
Design (Elements × Fibres per Tube)		5x4	5x6	5x12	6x12	8x12
Loose Tube / Filler - Ø	mm		2.0 nominal		2.0 nominal	2.0 nominal
CSM/sheath diameter	mm		1.5 nominal		2.2 nominal	2.2/3.5
Inner sheath thickness	mm		0.8 nominal		0.8 nominal	0.8 nominal
Middle sheath thickness	mm		1.0 nominal		1.0 nominal	1.0 nominal
Galvanized steel wire	mm		1.0 nominal		1.0 nominal	1.25 nominal
Outer sheath thickness	mm		1.9 nominal		1.9 nominal	1.9 nominal
Cable Diameter	mm		17.1 nominal		17.8 nominal	19.6 nominal
Cable Weight	kg / km		480		518	648
Max installation tension	N		6000			
Min. bending radius	mm		Without Tension 15 × Cable-Ø		Under Maximum Tension 25 × Cable-Ø	
Temperature range	°C		Installation -5 -> +50;	Transport. & Storage -40 -> +70 ;	Operation -30 -> +70	

Ordering Information

UC^{FIBRE}™ LTFMSMWM SERIES FO Cable part numbers are made up using the table below.

The part number always starts with the letters LTFMSMWM to denote that it is a UC^{FIBRE}™ LTFMSMWM 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^{FIBRE}™ LTFMSMWM SERIES FO Cable part number:

LTFMSMWM08M1

The above example describes an OM1 (62.5um, Orange Sheath) UC^{FIBRE}™ LTFMSMWM SERIES FO Cable, with 8 cores.

LTFMSMWM SERIES	CORE QUANTITY	FIBRE TYPE
LTFMSMWM	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)