

UC^{FIBRE}™ LTZMSM Series

12-96 Cores, Double Sheath Armoured Cable, LSZH

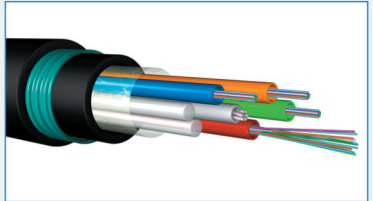
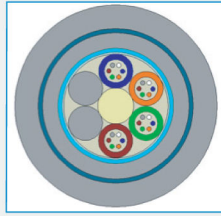
Features

- **Central strength member (CSM):** steel wire with plastic 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.
- **Longitudinal Water Tightness:** polyester tape (jelly filled).
- **Inner Sheath:** LSZH.
- **Armour:** corrugated steel tape.
- **Outer Sheath:** LSZH. Flame Retardant to IEC 60332-3C
- **Suitable for Duct Buried or Indoor/Outdoor Installation.**

Main characteristics

Test	Standard	Value	Sanction*
Max. installation tension	IEC 60794-1-2-E1	3000 N	fibre strain ≤ 0.33%, Δα reversible
Crush(short term)	IEC 60794-1-2-E3	3000N / 100mm	Δα ≤ 0.3 dB(MM), 0.1 dB(SM)
Temperature Cycling	IEC 60794-1-2-F1	-40 -> +70°C	Δα ≤ 0.3 dB/km(MM), 0.1 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



Overview

LTZMSM Series offers better mechanical protection than LTZSM Series and is able to be deployed in exposed environment over short distances reducing the reliability of ducts and hence better cost efficiency.

Additional Options

- PE Sheath (LTZPSP Series)
- Steel Wire Armouring
- UV Resistance
- Anti Rodent & Termite additives

Technical data

No. of Fibres		12, 24	36,48	96
Design (Elements × Fibres per Tube)		6x6	6x12	8x12
Loose Tube / Filler - Ø	mm	1.8	2.0	2.0
CSM/sheath diameter	mm	2.0	2.2	2.0/3.5
Inner sheath thickness	mm	0.8 nominal	0.8 nominal	0.8 nominal
Outer sheath thickness	mm	1.8 nominal	1.8 nominal	1.8 nominal
Cable Diameter	mm	12.5 nominal	13.1 nominal	14.4 nominal
Cable Weight	kg / km	210	232	270
Max installation tension	N	3000		
Min. bending radius	mm	Without Tension 10 × Cable-Ø		Under Maximum Tension 20 × Cable-Ø
Temperature range	°C	Installation -10 -> +60;	Transport. & Storage -40 -> +70 ;	Operation -40 -> +70
Flame Retardant		IEC 60332-3-24		

Ordering Information

UC^{FIBRE}™ LTZMSM SERIES FO Cable part numbers are made up using the table below.
The part number always starts with the letters LTZMSM to denote that it is a UC^{FIBRE}™ LTZMSM 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}™ LTZMSM SERIES FO Cable part number:
LTZMSM008M2
The above example describes an OM2 (50um, Orange Sheath) UC^{FIBRE}™ LTZMSM SERIES FO Cable, with 8 cores.

LTZMSM SERIES	CORE QUANTITY	FIBRE TYPE
LTZMSM	XXX	XX
	012 - 12 CORES 024 - 24 CORES 036 - 36 CORES 048 - 48 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)