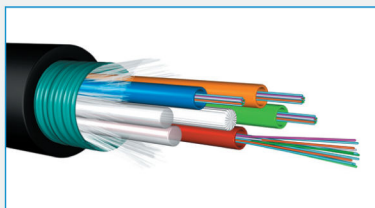
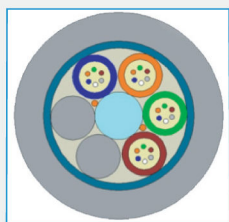


UC^{FIBRE}™ LTZSM Series

12-96 Cores, Light Armoured Cable, LSZH Sheath



Overview

LTZSM Series is one of the most value for cost UC Fibre cable which is able to run outdoor into indoor premises with protection against harsh elements ie Water / UV / Mechanical stress, while ensuring safety fire standards are in place.

Additional Options

- PVC Sheath (LTZSV)
- PE Sheath (LTZSP)
- PE Sheath for outdoor applications
- Steel Wire Braiding for armouring protection

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:** WB jelly and water blocking yarn (partial jelly filled).
- **Armour:** corrugated steel tape.
- **Outer Sheath:** LSZH.
- **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 range	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

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
Outer sheath thickness	mm	1.8 nominal	1.8 nominal	1.8 nominal
Cable Diameter	mm	10.7 nominal	11.3 nominal	12.6 nominal
Cable Weight	kg / km	158	177	208
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}™ LTZSM SERIES FO Cable part numbers are made up using the table below.

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

LTZSM008M2

The above example describes an OM2 (50um, Orange Sheath) UC^{FIBRE}™ LTZSM SERIES FO Cable, with 8 cores.

LTZSM SERIES	CORE QUANTITY	FIBRE TYPE
LTZSM	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)