

UC^{FIBRE™} MT Series

2-24 Cores, Indoor Tight Buffer Distribution Cable, LSZH Sheath

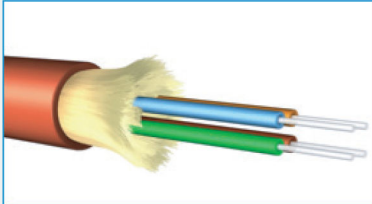
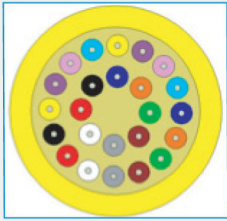
Features

- **Tight buffer** : Each fibre is coated to 0.9mm with LSZH
- **Strength Member** : Aramid yarn
- **Outer Sheath** : LSZH compliant to IEC 61034, IEC 60754-1&2, IEC 60332-1 & 60332-3-24
- **Suitable for indoor installation requiring flame retardant, low smoke and halogen free environment**

Main characteristics

Test	Standard	Value	Sanction*
Maximum installation load (a few hours)	IEC 60794-1-2-E1	1000 N (2F-8F), 1200N (12F, 24F)	Fibre strain ≤ 0.6%, Δα reversible
Short term tensile strength. (some days)	IEC 60794-1-2-E1	600N	Fibre strain ≤ 0.4%, Δα reversible
Max operation tension	IEC 60794-1-2-E1	280N (2F-12F), 340N (24F)	Fibre strain ≤ 0.2%, Δα ≤ 0.4 dB(MM), ≤0.30(SM)
Crush (short term)	IEC 60794-1-2-E3	1000 N / 100mm	Δα ≤ 0.4 dB(MM), ≤0.30(SM), no damage
Temperature range	IEC 60794-1-2-F1	-20 -> +70°C	Δα ≤ 0.6 dB /km(MM), ≤ 0.40dB/km(SM)

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



Overview

One of the most widely used UC^{FIBRE™} Indoor cable, MT series is excellent for indoor installation that provides a safe setup against flame propagation and its flexible yet robust construction makes installation at ease.

Additional Options

- PVC Sheath
- PE Sheath for outdoor applications
- Steel Wire Braiding for armouring protection.

Technical data

No. of Fibres		2,4,6	8	12	24
Design		1×6 TB	1×8 TB	1×12 TB	1×24 TB
Tight buffer	mm	0.9 ± 0.05	0.9 ± 0.05	0.9 ± 0.05	0.9 ± 0.05
Outer sheath thickness	mm	0.7 nominal	0.75 nominal	0.75 nominal	0.9 nominal
Cable Nominal Diameter	mm	4.8 nominal	5.4 nominal	6.2 nominal	8.8 nominal
Sub-units diameter	mm	20	26	33	60
Cable Weight		Without Tension		Under Maximum Tension	
Min. bending radius		10 × Cable-Ø		20 × Cable-Ø	
Temperature range	°C	Installation -10 -> +60;	Transport. & Storage -40 -> +70 ;	Operation -20 -> +70	
Flame Retardant		IEC 60332-3-24			

Ordering Information

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

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

MT008M1

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

MT SERIES	CORE QUANTITY	FIBRE TYPE
MT	XXX	XX
	002 - 2 CORES 004 - 4 CORES 006 - 6 CORES 008 - 8 CORES 012 - 12 CORES	SM - SINGEMODE, 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)