

UC^{FIBRE™} MT Series

36, 48, 96 Cores Indoor, Tight Buffer Distribution Cable, LSZH Sheath

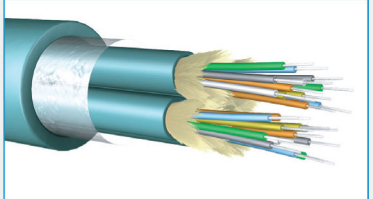
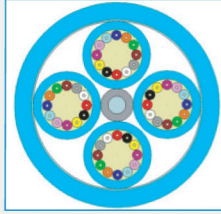
Features

- **Tight buffer:** : Each fibre is coated to 0.9mm with LSZH
- **Strength Member** : Aramid yarn within each sub-unit
- **Sub-unit sheath** : LSZH material
- **Central Strength Member** : FRP with up-coating
- **Core Wrapping** : Polyester tape
- **Outer Sheath** : LSZH compliant to IEC 61034, IEC 60754-1&2, IEC 60332-1 & 60332-3-24
- **Suitable for Indoor 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	4200 N (36F, 48F), 6600N (96F)	Fibre strain ≤ 0.6%, Δα reversible
Short term tensile strength. (some days)	IEC 60794-1-2-E1	2800 N (36F, 48F), 4400N (96F)	Fibre strain ≤ 0.4%, Δα reversible
Max operation tension	IEC 60794-1-2-E1	1400 N (36F, 48F), 2200N (96F)	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), ≤ 0.30dB/km(SM)

* 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

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 (MTV series)
- PE Sheath for outdoor applications
- Steel Wire Braiding for armouring protection

Technical data

No. of Fibres		36	48	96
Design		6x6 TB	4x12 TB	8x12 TB
Tight buffer Size	mm	0.9 ± 0.05	0.9 ± 0.05	0.9 ± 0.05
Sub-unit Diameter	mm	4.8 ± 0.2	6.0 ± 0.2	6.0 ± 0.2
Sub-unit sheath thickness	mm	0.7 nominal	0.65 nominal	0.65 nominal
Outer sheath thickness	mm	1.4 nominal	1.4 nominal	1.5 nominal
Cable Outer Diameter	mm	17.7±1.5	17.9±1.5	25.3±1.5
Cable Weight	kg / km	276	244	538
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 -20 -> +70
Flame Retardant		IEC 60332-3-24		

*Please refer to our General Installation, Safety & Handling recommendations before handling.

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:

MT036M1

The above example describes an OM1 (62.5um, Orange Sheath) UC^{FIBRE™} MT SERIES FO Cable, with 36 cores.

