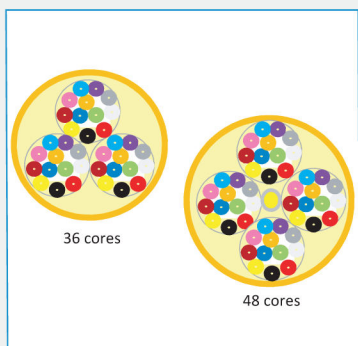


UC^{FIBRE}™ MTC Series

36 & 48 Cores, COMPACT Indoor Tight Buffer Distribution Cable, LSZH Sheath



Overview

Compact design version of MT Series with reduced overall diameter for easier installation and space limitation environment.

Additional Options

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

Features

- **Tight buffer** : Each fibre is coated to 0.9mm with LSZH
- **Strength Member** : Aramid yarn
- **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 Environment.**
- **Up to 40% more compact & lighter than standard indoor types but with lesser tensile load.**

Main characteristics

Test	Standard	Value	Sanction*
Maximum installation load (a few hours)	IEC 60794-1-2-E1	1300 N (36F, 48F)	Fibre strain ≤ 0.6%, Δα reversible
Short term tensile strength. (some days)	IEC 60794-1-2-E1	1300 N (36F, 48F)	Fibre strain ≤ 0.4%, Δα reversible
Max operation tension	IEC 60794-1-2-E1	400 N (36F, 48F)	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 multi-mode fibres, all optical measurements performed at 1300 nm
values for single-mode fibres, all optical measurements performed at 1550 nm

Technical data

No. of Fibres		36	48
Design		6x6 TB	4x12 TB
Tight buffer	mm	0.9 ± 0.05	0.9 ± 0.05
Outer sheath thickness	mm	1.2 nominal	1.2 nominal
Cable Nominal Diameter	mm	11.0 ± 1.5	12 ± 1.5
Sub-units diameter	mm	100	140
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 (3C)	

Ordering Information

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

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

MTC048M4

The above example describes an OM4 (50um, Aqua Sheath) UC^{FIBRE}™ MTC SERIES FO Cable, with 48 cores.

