

# UC<sup>FIBRE™</sup> MB Series

## 2F-12 Fibres, Breakout Distribution Cable, LSZH Sheath

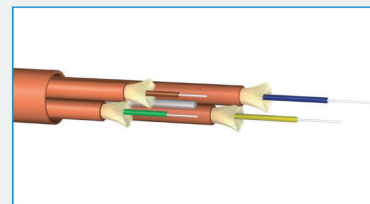
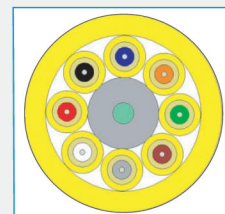
### Features

- **Buffer Coating** : LSZH material, 0.9mm tight buffered fibre
- **Strength Member** : Aramid yarn within each sub-unit
- **Sub-unit sheath** : LSZH material
- **Central Strength Member** : FRP with up-coating when needed
- **Outer Sheath** : LSZH compliant to IEC 61034, IEC 60754-1&2, IEC 60332-1 & 60332-3-24
- Easy to strip and excellent for use in indoor installations requiring efficient terminations, and also in flame retardant, low smoke and halogen free environments.

### Main characteristics

Test	Standard	Value	Sanction*
<b>Maximum Tension at installation (short term)</b>	IEC 60794-1-2-E1	660N	$\Delta I/I$ fibre $\leq 0.6\%$ , $\Delta \alpha$ reversible
<b>Tension opération max (long term)</b>	IEC 60794-1-2-E1	198N	$\Delta I/I$ fibre $\leq 0.2\%$ , $\Delta \alpha \leq 0.30$ dB(SM)/ 0.40 dB(MM)
<b>Crush</b>	IEC 60794-1-2-E3	1000N / 100mm	$\Delta \alpha \leq 0.30$ dB(SM)/ 0.40 dB(MM) , cable integrity

\* 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

MB Series provides easy stripping and terminations in indoor application due to its unique tight buffering of each fibre unit.

### Additional Options

- PVC Sheath (MBV Series)
- PE Sheath (MBP Series)
- PE Sheath for outdoor applications
- Steel Wire Braiding for armouring protection

### Technical data

No. of Fibres		2,4	6	8	12
<b>Design</b>		Breakout			
<b>Buffer Diameter - Ø</b>	mm	0.9 ± 0.05	0.9 ± 0.05	0.9 ± 0.05	0.9 ± 0.05
<b>CSM/sheath diameter</b>	mm	1.0 nominal	0.75 nominal	2.0/3.5 nominal	2.0/6.2 nominal
<b>Sub-unit sheath thickness</b>	mm	0.35 nominal	0.35 nominal	0.35 nominal	0.35 nominal
<b>Sub-units diameter</b>	mm	2.0 ± 0.15	2.0 ± 0.15	2.0 ± 0.15	2.0 ± 0.15
<b>Outer sheath thickness</b>	mm	1.0 nominal	1.0 nominal	1.0 nominal	1.0 nominal
<b>Cable Diameter (AxB)</b>	mm	7.0 ± 0.5	8.2 ± 0.5	9.5 ± 0.5	12.3 ± 0.5
<b>Cable Weight</b>	kg / km	48	64	89	149
<b>Min. bending radius</b>		Without Tension 10 × Cable-Ø		Under Maximum Tension 20 × Cable-Ø	
<b>Temperature range</b>	°C	Installation -10 -> +60;		Transport. & Storage -40 -> +70 ; Operation -20 -> +70	
<b>Flame Retardant</b>		IEC 60332-1, IEC60332-3-24			

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

### Ordering Information

UC<sup>FIBRE™</sup> MB SERIES FO Cable part numbers are made up using the table below.

The part number always starts with the letters MB to denote that it is a UC<sup>FIBRE™</sup> MB 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<sup>FIBRE™</sup> MB SERIES FO Cable part number:

**MB008M3**

The above example describes an OM3 (50um, Aqua Sheath) UC<sup>FIBRE™</sup> MB SERIES FO Cable, with 8 cores.

MB SERIES	CORE QUANTITY	FIBRE TYPE
MB	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)