# LANmark-OF ENSPACE Method B MTP-MTP Pre-Term LSZH APAC

**LANMARK-OF ENSPACE METHOD B MTP/M-MTP/M PRE-TERM SM 48C LOW LOSS LSZH XXXM OS2 G.657.A1 YELLOW**



**Aginode Ref:** N144.B48MMExxxY

- Factory terminated MTP-MTP fibre assembly
- Flexible fan-out for ease of installation in patch panel
- Small cable diameter reduces required data centre space
- Method B polarity Pre-Term
- Optimized for 40G/100G parallel transmission
- Fibre count: 48F
- Fibre type: Singlemode (OS2 G.657.A1)

### Pre-Term for data centres, buildings and campus based on Micro-Bundle Universal

The cable has a small diameter and bend raduis to meet data centre requirements.

### Fire performance

The cables have been tested for fire performance according to IEC 60332-3c. The cable meets LSZH requirements.

### MTP*-MTP Pre-Term characteristics

The MTP-MTP Pre-Term has standard pinned (male) connectors. This matches with the un-pinned (female) connectors in the ENSPACE modules and the female Plug&Play modules.

In order to reduce overlengths in data centers the Pre-Terms are custom made and available with 1m increments. The "xxx" in the N-number is the length in metre between the cable glands, i.e. the Pre-Term length between the back side of the patch panels.

The Pre-Terms are optimized for both pulling and laying in data centers. On both sides the MTP connectors are protected by a bubble foam. The maximum pulling force on the pulling eye is 450N. The detachable pulling eye with corrugated tube can be ordered using PN N890.100HP.

The MTP-MTP Pre-Terms come with a PG-13 cable gland that fits into the LANmark-OF ENSPACE and Plug&Play patch panel slots.

## STANDARDS

ANSI/TIA-568-C.3
ISO/IEC 11801

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## Optical Performance and Polarity

The insertion loss for a multimode the MTP-MTP* connection has Low Loss performance: typical insertion loss is 0,15 dB with a maximum of 0,35 dB insertion loss. Ultra Low loss is also available with typical insertion loss 0.125dB with a maximum of 0.25dB insertion loss.

The insertion loss for a singlemode the MTP-MTP* connection has Low Loss performance:  typical insertion loss 0.3dB with a maximum of 0.35dB insertion loss.

The insertion loss of a MTP-MTP* connection is measured according to standard IEC61300-3-45.

The minimum return loss for a multimode MTP connection is 20 dB measured according to IEC 61300-3-6. The minimum return loss for a singlemode MTP connection is 45 dB measured according to IEC 61300-3-6.

The method B Pre-Term has a key up / key up design. This is in agreement with standard TIA-568.3-D-2016 method B.

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# LANmark-OF ENSPACE METHOD B MTP/M-MTP/M Pre-Term SM 48c Low Loss LSZH xxxM OS2 G.657.A1 Yellow

## Characteristics

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|---|---|
| **Construction characteristics** | |
| Fiber optic type | SM (G657.A1) |
| Halogen free | Yes |
| **Dimensional characteristics** | |
| Number of optical fibres | 48 |
| Nominal outer diameter (mm) | 5.4 mm |
| **Mechanical characteristics** | |
| Maximum installation tension | 660 N |
| Mechanical resistance to impacts | 10 impacts of 3 N.m |
| Crush resistance (IEC 60794-1-E3) | 100 N/cm |
| **Transmission characteristics** | |
| Insertion Loss, maximum, dB | 0.35 dB |
| Return Loss, Minimum, dB | 45 dB |
| **Usage characteristics** | |
| Operating temperature, range | -20...60 °C |
| Minimum dynamic operating bending radius | 20 (xD) |
| Minimum bending radius, static (XD) | 10 |
| Smoke density | IEC 61034 |
| Fire retardant | IEC 60332-3-24 (cat C) |

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