

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

LANMARK-OF ENSPACE METHOD C MTP/M-MTP/M PRE-TERM MM 48C LOW LOSS LSZH XXXM OM4 AQUA

**Aginode Ref:** N147.C48MMExxxV

- 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 C polarity Pre-Term
- Only one type of patch cords and one type of cassettes required for duplex transmission
- Fibre count: 48F
- Fibre type: Multimode OM4

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

The cable has a small diameter and bend radius 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 C Pre-Term has a pairflip key up / key down design. This is in agreement with standard TIA-568.3-D-2016 method C.

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## Characteristics

### Construction characteristics

|                  |            |
|------------------|------------|
| Fiber optic type | OM4 50/125 |
| Halogen free     | Yes        |

### Dimensional characteristics

|                             |        |
|-----------------------------|--------|
| Nominal outer diameter (mm) | 5.4 mm |
| Number of optical fibres    | 48     |

### Mechanical characteristics

|                                   |                     |
|-----------------------------------|---------------------|
| Crush resistance (IEC 60794-1-E3) | 100 N/cm            |
| Maximum installation tension      | 660 N               |
| Mechanical resistance to impacts  | 10 impacts of 3 N.m |

### Transmission characteristics

|                             |         |
|-----------------------------|---------|
| Insertion Loss, maximum, dB | 0.35 dB |
| Return Loss, Minimum, dB    | 20 dB   |

### Usage characteristics

|  |                        |
|--|------------------------|
| Fire retardant                           | IEC 60332-3-24 (cat C) |
| Minimum bending radius, static (XD)      | 10                     |
| Minimum dynamic operating bending radius | 20 (xD)                |
| Operating temperature, range             | -20...60 °C            |
| Smoke density                            | IEC 61034              |