

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

LANMARK-OF ENSPACE METHOD C MTP/M-MTP/M PRE-TERM SM 24C LOW LOSS LSZH XXXM OS2 G.657.A1 YELLOW

**Aginode Ref:** N144.C24MMExxxY

- 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: 24F
- 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 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

All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Aginode is indicative only and shall not be binding on Aginode or be treated as constituting a representation on the part of Aginode.

## 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 | SM (G657.A1) |
| Halogen free     | Yes          |

### Dimensional characteristics

|                             |        |
|-----------------------------|--------|
| Number of optical fibres    | 24     |
| Nominal outer diameter (mm) | 5.4 mm |

### Mechanical characteristics

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

### Transmission characteristics

|                             |         |
|-----------------------------|---------|
| Insertion Loss, maximum, dB | 0.35 dB |
| Return Loss, Minimum, dB    | 45 dB   |

### Usage characteristics

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