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

**LANMARK-OF ENSPACE METHOD C PRE-TERM OM3 X12F MTP/M-MTP/M ULTRA LOW LOSS XXXM OFNP AQUA**

**Aginode Ref:** N145.P12MMExxxA-U

- 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: 12F
- Fibre type: OM3



## STANDARDS

ISO/IEC 11801

### 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 UL Planum rated.

According to this standard the cables have a very high fire performance with minimal fire load and can be used in air flow space.

### 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.

After the cable gland the Pre-Term has a fan-out. The fan-out splits the cable into tubes. The tubes are reinforced with aramid yarns. At the end of each tube a MTP-connectors is mounted. The jacket of the tube is the same colour as the cable jacket. Close to the MTP-connector a label is installed to

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identify the number of the leg.

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 corrugrated 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.

**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 is 0,5 dB with a maximum of 0,75 dB insertion loss. Ultra low loss is also available with typical insertion loss 0.15dB 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.

For a duplex transmission like for 10GBase-SR (10G) polarity in the channel is maintained with this method C design and the use of the same straight cassettes on both sides. In addition the same patch cords can be used on both sides.

For parallel optics like for 40GBase-SR4 (40G) these method C Pre-Terms can be used with key up/key down adaptors on one side of the channel and key up/key up adaptors on the other side. The same straight female-female patch cords can be used on both sides.

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# LANmark-OF ENSPACE Method C Pre-Term OM3 x12F MTP/M-MTP/M Ultra Low Loss xxxm OFNP Aqua

## Characteristics

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| **Construction characteristics** | |
| Fiber optic type | OM3 50/125 |
| **Dimensional characteristics** | |
| Number of optical fibres | 12 |
| Nominal outer diameter (mm) | 4.5 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 | 450 N |
| **Transmission characteristics** | |
| Insertion Loss, maximum, dB | 0.25 dB |
| Return Loss, Minimum, dB | 20 dB |
| **Usage characteristics** | |
| Operating temperature, range | -20...60 °C |
| Minimum dynamic operating bending radius | 20 (xD) |
| Minimum bending radius, static (XD) | 10 |

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