LANmark-OF MPO-MPO Pre-Term OFNP Method B APAC

LANMARK-OF METHOD B MPO/M-MPO/M PRE-TERM SM OS2 G.657.A1 24C ULTRA LOW LOSS OFNP XXXM YELLOW

Aginode Ref: N144.BU24UPxxx-PY

- Factory terminated MPO-MPO 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
- Optmized for 40G/100G parallel applications
- Fibre count: 24F
- Fibre type: SingleMode OS2 G.657.A1



STANDARDS

ISO/IEC 11801

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

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 Planum rated, providing a very high fire performance with minimal fire load and can be used in air flow space.

MPO-MPO Pre-Term characteristics

The MPO-MPO Pre-Term has standard pinned (male) connectors. This matches with the un-pinned (female) connectors in 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 MPO-connectors is mounted. The jacket of the tube is the same colour as the cable jacket. Close to the MPO-connector a label is installed to identify the number of the leg.

Pre-terminated MPO fibre cable can be ordered separately with a removable pulling eye for fast deployment onsite. The pulling eye provides minimum 450N installation tension. High crush resistant pulling eye is also available with a high strength protection tube. The removable pulling eye can be quickly detached after installation and can be reinstalled, reducing

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construction waste and making it more suitable for sustainable environmental protection. Prefabricated pulling eye is also available with the MPO pre-term. The detachable pulling eye with corrugrated tube can be ordered using PN N890.100HP.
The MPO-MPO 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 MPO-MPO connection has Ultra Low Loss performance: typical insertion loss is 0,2 dB with a maximum of 0,35 dB insertion loss.

The typical insertion loss for a singlemode the MPO-MPO connection is 0,5 dB with a maximum of 0,75 dB insertion loss.

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

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

MPO cable standard is METHOD B. Other common standards recognized by ISO/IEC 11801 and TIA 568 standards are available, such as METHOD A, METHOD B, METHOD C, etc.

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LANmark-OF METHOD B MPO/M-MPO/M Pre-Term SM OS2 G.657.A1 24c Ultra Low loss OFNP xxxM Yellow

Characteristics

Construction characteristics	
Fiber optic type	SM (G657.A1)
Dimensional characteristics	
Number of optical fibres	24
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	55 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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