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

LANMARK-OF METHOD B MPO/M-MPO/M PRE-TERM MM OM4 48C OFNP XXXM AQUA

Aginode Ref: N147.BU48LPxxx-PA

- 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: 48F
- Fibre type: MultiMode OM4



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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Characteristics

Construction characteristics	
Fiber optic type	OM4 50/125
Dimensional characteristics	
Number of optical fibres	48
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	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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