LANmark-OF ENSPACE Method B MTP-MTP Pre-Term OFNP APAC

- 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 B polarity Pre-Term
- Optmized for 40G/100G parallel applications
- Fibre count: 12F, 24F, 48F, 96F and 144F
- Fibre type: OM3, OM4 and singlemode (OS2)

STANDARDS

ISO/IEC 11801

Fire performance

The cables have been tested for fire performance according to UL Plenum performance.

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.

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 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 0,25 dB with a maximum of 0,35 dB insertion loss.

The insertion loss for a singlemode the MTP-MTP* connection has Ultra Low Loss performance: typical insertion loss 0.25dB 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 B Pre-Term has a key up / key up design. This is in agreement with standard TIA-568.3-D-2016 method B.

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CHARACTERISTICS

구조적 특성	
Fiber optic type	SM (G657.A1)
치수	
Number of optical fibres	12
Nominal outer diameter	4.5 mm
기계적 특성	
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	0.35 dB
Return Loss, Minimum, dB	45 dB
사용 특성	
操作温度范围	-20...60 °C
Minimum dynamic operating bending radius	20 (xD)
Minimum bending radius, static (XD)	10

Product list

	Aginode ref.	Country ref.	이름	Fiber optic type	Nominal outer diameter	Number of optical fibres	Crush resistance (IEC 60794-1-E3)	Maximum installation tension	Mechanical resistance to impacts	Return Loss, Minimum, dB	Insertion Loss, maximum, dB
	N144.O12MMExxxY	-	LANmark-OF ENSPACE Method B 12F x SM Ultra Low Loss MTP Male APC - MTP Male APC Pre-Term xxxm OFNP Yellow	SM (G657.A1)	4.5 (mm)	12	100 (N/cm)	450 (N)	10 impacts of 3 N.m	45 (dB)	0.35 (dB)
	N144.O24MMExxxY	-	LANmark-OF ENSPACE Method B 24F x SM Ultra Low Loss MTP Male APC - MTP Male APC Pre-Term xxxm OFNP Yellow	SM (G657.A1)	7.5 (mm)	24	100 (N/cm)	660 (N)	10 impacts of 3 N.m	45 (dB)	0.35 (dB)

	Aginode ref.	Country ref.	이름	Fiber optic type	Nominal outer diameter	Number of optical fibres	Crush resistance (IEC 60794-1-E3)	Maximum installation tension	Mechanical resistance to impacts	Return Loss, Minimum, dB	Insertion Loss, maximum, dB
	N144.O48MMExxxY	-	LANmark-OF ENSPACE Method B 48F x SM Ultra Low Loss MTP Male APC - MTP Male APC Pre-Term xxxm OFNP Yellow	SM (G657.A1)	7.7 (mm)	48	100 (N/cm)	660 (N)	10 impacts of 3 N.m	45 (dB)	0.35 (dB)
	N144.O96MMExxxY	-	LANmark-OF ENSPACE Method B 96F x SM Ultra Low Loss MTP Male APC - MTP Male APC Pre-Term xxxm OFNP Yellow	SM (G657.A1)	10.0 (mm)	96	100 (N/cm)	1000 (N)	10 impacts of 3 N.m	45 (dB)	0.35 (dB)
	N145.O12MMExxxA	-	LANmark-OF ENSPACE Method B 12F x OM3 MTP Male - MTP Male Pre-Term xxxm OFNP Aqua	OM3 50/125	4.5 (mm)	12	100 (N/cm)	450 (N)	10 impacts of 3 N.m	20 (dB)	0.35 (dB)

Aginode ref.	Country ref.	이름	Fiber optic type	Nominal outer diameter	Number of optical fibres	Crush resistance (IEC 60794-1-E3)	Maximum installation tension	Mechanical resistance to impacts	Return Loss, Minimum, dB	Insertion Loss, maximum, dB
N145.O24MMExxxA	-	LANmark-OF ENSPACE Method B 24F x OM3 MTP Male - MTP Male Pre-Term xxxm OFNP Aqua	OM3 50/125	7.5 (mm)	24	100 (N/cm)	660 (N)	10 impacts of 3 N.m	20 (dB)	0.35 (dB)
N145.O48MMExxxA	-	LANmark-OF ENSPACE Method B 48F x OM3 MTP Male - MTP Male Pre-Term xxxm OFNP Aqua	OM3 50/125	7.7 (mm)	48	100 (N/cm)	660 (N)	10 impacts of 3 N.m	20 (dB)	0.35 (dB)
N145.O96MMExxxA	-	LANmark-OF ENSPACE Method B 96F x OM3 MTP Male - MTP Male Pre-Term xxxm OFNP Aqua	OM3 50/125	10.0 (mm)	96	100 (N/cm)	1000 (N)	10 impacts of 3 N.m	20 (dB)	0.25 (dB)

Aginode ref.	Country ref.	이름	Fiber optic type	Nominal outer diameter	Number of optical fibres	Crush resistance (IEC 60794-1-E3)	Maximum installation tension	Mechanical resistance to impacts	Return Loss, Minimum, dB	Insertion Loss, maximum, dB
N147.O12MMExxxA	-	LANmark-OF ENSPACE Method B 12F x OM4 MTP Male - MTP Male Pre-Term xxxm OFNP Aqua	OM4 50/125	4.5 (mm)	12	100 (N/cm)	450 (N)	10 impacts of 3 N.m	20 (dB)	0.35 (dB)
N147.O24MMExxxA	-	LANmark-OF ENSPACE Method B 24F x OM4 MTP Male - MTP Male Pre-Term xxxm OFNP Aqua	OM4 50/125	7.5 (mm)	24	100 (N/cm)	660 (N)	10 impacts of 3 N.m	20 (dB)	0.35 (dB)
N147.O48MMExxxA	-	LANmark-OF ENSPACE Method B 48F x OM4 MTP Male - MTP Male Pre-Term xxxm OFNP Aqua	OM4 50/125	7.7 (mm)	48	100 (N/cm)	660 (N)	10 impacts of 3 N.m	20 (dB)	0.35 (dB)

	Aginode ref.	Country ref.	이름	Fiber optic type	Nominal outer diameter	Number of optical fibres	Crush resistance (IEC 60794-1-E3)	Maximum installation tension	Mechanical resistance to impacts	Return Loss, Minimum, dB	Insertion Loss, maximum, dB
	N147.O96MMExxxA	-	LANmark-OF ENSPACE Method B 96F x OM4 MTP Male - MTP Male Pre-Term xxxm OFNP Aqua	OM4 50/125	10.0 (mm)	96	100 (N/cm)	1000 (N)	10 impacts of 3 N.m	20 (dB)	0.35 (dB)