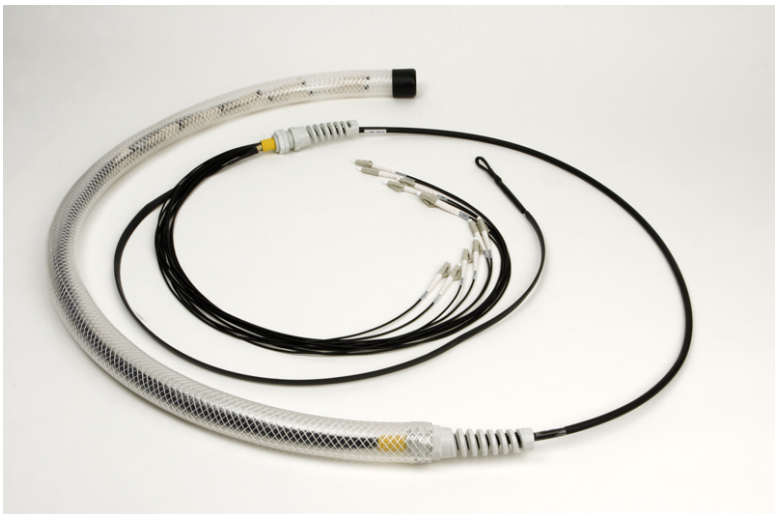
Nexans



Fibra óptica
Fibras pre-conectorizadas

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Acerca de Nexans

Nexans aporta energía a la vida a través de una extensa gama de cables y soluciones de cableado que permiten mejorar el rendimiento de sus clientes en todo el mundo. Los equipos de Nexans actúan como socios al servicio de sus clientes en cuatro sectores clave: transmisión y distribución de energía (submarina y terrestre), recursos energéticos (petróleo y gas, minería y energías renovables), transporte (carretera, ferroviario, aéreo, marítimo) y construcción (comercial, residencial y centros de datos).

La estrategia de Nexans se basa en la innovación continua de los productos, soluciones y servicios, la implicación de los equipos, la asistencia técnica de los clientes y la adopción de procesos industriales seguros y respetuosos con el medioambiente. En 2013 Nexans se convirtió en el primer actor de la industria del cable en crear una Fundación destinada a sostener iniciativas para el acceso a la energía de los grupos de población más desfavorecida de todo el mundo.

Con presencia industrial en 40 países y actividades comerciales por todo el mundo, Nexans emplea a cerca de 26.000 personas. En 2014, el Grupo Nexans generó unas ventas de 6,4 mil millones de euros. Nexans cotiza en la bolsa NYSE Euronext de París, compartimento A. Más información en: www.nexans.com

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Símbolos

Resistencia mecánica a impactos	
Temperatura ambiente de instalación (rango)	
No propagación de la llama	
Radio de curvatura mínimo en operación estática	
No propagador del incendio	
Temperatura de almacenamiento (rango)	
Temperatura ambiente de utilización (rango)	

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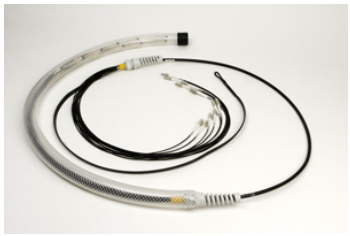
Fibras pre-conectorizadas

Esta oferta de valor añadido permite despliegues de redes rápidos y elimina la necesidad de terminaciones especializadas con su formación, consumibles y herramientas. Cada conjunto se monta por ingenieros en fibra ópticas según las necesidades individuales de los clientes: Longitud de cable, tipo de conector, calidad de fibra, tamaño del fanout.



Todos los montajes de fibra preconectorizada LANmark-OF se montan y prueban en ambientes de fabricación controlados. Se suministran con todos los resultados de prueba y entran en el programa de garantías de 25 años de LANmark-OF.

Las fibra preconectorizadas LANmark-OF reducen significativamente el tiempo y coste de instalación y garantizan la escalabilidad y una fiabilidad duradera para todas las situaciones, sean campus, troncales, SAN o CPDs.

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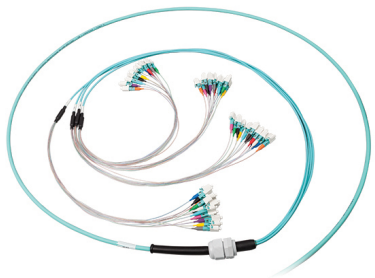
LANmark-OF ENSPACE LC/LC Pre-Term

- Factory terminated LC fibre assembly
- ENSPACE Pre-Term for installation in LANmark-OF ENSPACE Patch Panel
- Fibre count: 12F, 24F, 48F and 96F
- Fibre type: OM3, OM4 and singlemode (OS2)
- Small cable diameter reduces required data centre space

Descripción

The assembly consists of a Micro-Bundle Indoor cable terminated with connectors on each side in a factory. The connectors are typically LC in a data centre. A pre-terminated solution allows a very fast installation in data centres.



LANmark-OF

Optimised cable design for data centres based on Micro-Bundle Indoor

- Small cable: the diameter ranges from 3,65 mm for a 12 core Pre-Term to 6,4 mm for 96 cores.
- Small bending radius: ranging from 40 mm for a 12 core to 65 mm for a 96 core Pre-Term
- Less space required for cabling in a data centre
- More cables in cable trays
- Less influence on airflow
- Less weight in cable trays
- Flexible fan-out to install in patch panels

The outer jacket of the cable is LSZH. The cable meet the requirements for flame non-propagation (IEC 60332-1) and fire non-propagation (IEC 60332-3). It can be used as indoor cable for horizontal and vertical installations.

Estándares

Internacional ISO/IEC 11801

Pre-Term characteristics

The Pre-Term has a dual stage fan-out design.

The first fan-out point is the transition point between the cable and the legs of the fan-out. Each leg of the fan-out contains 1 Micro-Bundle with 12 fibres inside. This fan-out has been reinforced with aramid yarns.

The second fan-out distributes the reinforced Micro-Bundle into 12 buffered fibres. The second fan-out together with the 12 buffered fibres and connectors are optimized for installation and fixation into the UHD adaptor modules.

The Tight Buffered fibres of the Pre-Term are easy to arrange inside a ENSPACE module since they are at the same time flexible and robust enough to handle.

Resistencia mecánica a impactos
10 impacts of 1 N.m

Temperatura ambiente de instalación (rango)
0 .. 40 °C

Temperatura de almacenamiento (rango)
-20 .. 60 °C

No propagación de la llama
IEC 60332-1

No propagador del incendio
IEC 60332-3

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LANmark-OF ENSPACE LC/LC Pre-Term

The connectors on the Tight Buffered fibres have coloured boots for identification in compliance with the TIA/EIA standard. In manufacturing a fibre pair flip has been implemented. When installing the connectors inside the ENSPACE modules the coloured boots need to match the colours of the integrated strip inside the ENSPACE module to obtain transmit-receive polarity in the channel.

The fan-out is protected with a bubble foam for protection during transport and installation. In addition every bundle of 12 connectors has an additional individual protection to avoid mixing them up with connectors from another bundle.

The Pre-Terms are optimized for both laying and pulling. A pulling eye system is positioned at one side of the Pre-Term to facilitate the installation. This pulling eye is connected to the internal strength element of the cable. The maximum pulling force on the pulling eye is 450N.

The LC/LC Pre-Terms come with a PG-13 cable gland that fits into the LANmark-OF ENSPACE patch panel slots.

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 rear of the patch panels.

The typical value for the insertion loss for the low loss LC/LC connection is 0,15 dB. The limit value is 0,3 dB measured according to standard IEC61300-3-4. The minimum return loss is measured according to standard IEC 61300-3-6. For a mutimode LC connection the RL is 30 dB, for a singlemode LC connection it is 40 dB and for a LC/APC connection it is 55 dB.

All LANmark-OF Pre-term assemblies are fully terminated and tested in a quality assured factory environment. The test results are delivered in the box with the Pre-Term.

Características

Características mecánicas	
Resistencia mecánica a impactos	10 impacts of 1 N.m
Características de uso	
Temperatura ambiente de instalación (rango)	0 .. 40 °C
Temperatura de almacenamiento (rango)	-20 .. 60 °C
No propagación de la llama	IEC 60332-1
No propagador del incendio	IEC 60332-3

Resistencia mecánica a impactos
10 impacts of 1 N.m

Temperatura ambiente de instalación (rango)
0 .. 40 °C

Temperatura de almacenamiento (rango)
-20 .. 60 °C

No propagación de la llama
IEC 60332-1

No propagador del incendio
IEC 60332-3

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LANmark-OF ENSPACE LC/LC Pre-Term

Lista de Productos

=Realizar pedido, =Reservar stock

Ref. Nexans	Nombre
N155.D12LLExxxA	LANmark-OF ENSPACE Pre-Term OM3 x12F LC(900µm)-LC(900µm) fan out E xxxm LSZH Aqua
N155.D24LLExxxA	LANmark-OF ENSPACE Pre-Term OM3 x24F LC(900µm)-LC(900µm) fan out E xxxm LSZH Aqua
N155.D48LLExxxA	LANmark-OF ENSPACE Pre-Term OM3 x48F LC(900µm)-LC(900µm) fan out E xxxm LSZH Aqua
N155.D96LLExxxA	LANmark-OF ENSPACE Pre-Term OM3 x96F LC(900µm)-LC(900µm) fan out E xxxm LSZH Aqua
N157.D12LLExxxA	LANmark-OF ENSPACE Pre-Term OM4 x12F LC(900µm)-LC(900µm) fan out E xxxm LSZH Aqua
N157.D24LLExxxA	LANmark-OF ENSPACE Pre-Term OM4 x24F LC(900µm)-LC(900µm) fan out E xxxm LSZH Aqua
N157.D48LLExxxA	LANmark-OF ENSPACE Pre-Term OM4 x48F LC(900µm)-LC(900µm) fan out E xxxm LSZH Aqua
N157.D96LLExxxA	LANmark-OF ENSPACE Pre-Term OM4 x96F LC(900µm)-LC(900µm) fan out E xxxm LSZH Aqua
N154.D12LLExxxY	LANmark-OF ENSPACE Pre-Term SM x12F LC(900µm)-LC(900µm) fan out E xxxm LSZH Yellow
N154.D24LLExxxY	LANmark-OF ENSPACE Pre-Term SM x24F LC(900µm)-LC(900µm) fan out E xxxm LSZH Yellow
N154.D48LLExxxY	LANmark-OF ENSPACE Pre-Term SM x48F LC(900µm)-LC(900µm) fan out E xxxm LSZH Yellow
N154.D96LLExxxY	LANmark-OF ENSPACE Pre-Term SM x96F LC(900µm)-LC(900µm) fan out E xxxm LSZH Yellow

= Realizar pedido, = Reservar stock

Resistencia mecánica a impactos
10 impacts of 1 N.m

Temperatura ambiente de instalación (rango)
0 .. 40 °C

Temperatura de almacenamiento (rango)
-20 .. 60 °C

No propagación de la llama
IEC 60332-1

No propagador del incendio
IEC 60332-3

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LANmark-OF Female MTP-LC Assemblies

- Factory terminated female MTP-LC fibre assembly
- Staggered, flexible fan-out
- 12 core
- Polarity optimised for MTP-module + female MTP-LC assembly
- Fibre type: Singlemode (OS2), OM3 and OM4
- Low loss MTP connectivity performance

Descripción

LANmark-OF

MTP*-LC harnesses allow the rapid deployment of high density patching in SAN and LAN environments in data centres. The I/O density of active devices is increasing. Blade chassis currently reach 48 optical ports (96 LC connectors) per blade with blade densities reaching eight to 18 per chassis. This creates a challenging optical cabling and connectivity management situation.

Nexans' Optical Harness Assembly enables superb cabling management using staggered links optimised to grow as your system grows while maintaining flexibility and control.

Construction

A round cable with a diameter of 3,65 mm is terminated on one side with a female MTP-connector. The other side is terminated as a staggered fan-out with uniboot duplex LC connectors. The round fan-out legs contain 2 fibres.

The stagger between the uniboot connectors is set to minimize excess cable: The distances between the uniboot connectors is standard set at 15 mm+/-5mm.

For a left staggered fan-out the first uniboot connector is located at 600 mm from the fan-out point and is labelled as port "1". The sixth uniboot connector is 675 mm from the fan-out point and has label "6".
For a right staggered fan-out the first uniboot connector is located at 675 mm from the fan-out point and is labelled as port "1". The sixth uniboot connector is 600 mm from the fan-out point and has label "6".
For a straight fan-out all connectors are located 600 mm from the fan-out point.

The uniboot connector with label "1" is always connected to the most left port of the Plug&Play-module.

The length between the MTP-connector and the fan-out point is variable and can be increased in steps of 1 m.

Custom configurations are available on requests. They are designed to suit for the user's component lay-out.

Features and benefits

- Small bend raduis
- Bend insensitive optical fibres
- Available in OM3, OM4 and Singlemode mode (OS2)
- Cable jacket aqua for OM3/OM4 and yellow for Singlemode

Performance and polarity

The MTP connector is a low loss connector. Typical value for the insertion loss for

Estándares

Internacional ISO/IEC 11801:2002/ Amd 1:2008/Cor 1:2008

Resistencia mecánica a impactos	No propagación de la llama	No propagador del incendio	Radio de curvatura mínimo en operación estática	Temperatura de almacenamiento (rango)	Temperatura ambiente de utilización (rango)
10 impacts of 1 N.m	IEC 60332-1	IEC 60332-3	40 mm	-20 .. 60 °C	0 .. 60 °C

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the low loss MTP-MTP connection is 0.2 dB. The limit value is 0.35 dB measured according to standard IEC 61300-3-45.

The polarity is optimised for following channel: Plug&Play-module + MTP/LC Harness. The female MTP-connector of MTP-LC harness fits with the male MTP connector of the Plug&Play module.

Bending radius of the cable is 40 mm.

Cable is flame non propagation (IEC 60332-1) and fire non propagation (IEC 60332-3)

Consistent quality

In order to produce high quality, reliable pre-terminated multi-fibre cables, there are a number of physical characteristics that must be addressed. Therefore, all LANmark-OF Pre-Terms are fully terminated and tested in a quality assured factory environment. They are delivered with these test results.

* MTP is a trade name of US Conec

Características

Características dimensionales	
Diámetro exterior nominal	3,65 mm
Características mecánicas	
Resistencia mecánica a impactos	10 impacts of 1 N.m
Crush resistance (IEC 60794-1-E3)	50 N/cm
Características de uso	
No propagación de la llama	IEC 60332-1
No propagador del incendio	IEC 60332-3
Radio de curvatura mínimo en operación estática	40 mm
Temperatura de almacenamiento (rango)	-20 .. 60 °C
Temperatura ambiente de utilización (rango)	0 .. 60 °C

Resistencia mecánica a impactos
10 impacts of 1 N.m

No propagación de la llama
IEC 60332-1

No propagador del incendio
IEC 60332-3

Radio de curvatura mínimo en operación estática
40 mm

Temperatura de almacenamiento (rango)
-20 .. 60 °C

Temperatura ambiente de utilización (rango)
0 .. 60 °C

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LANmark-OF Female MTP-LC Assemblies

Lista de Productos

Ref. Nexans	Nombre
N129.5VXXXL006A	LANmark-OF Pre-Term Female MTP – Staggered LC Left Fan-Out 60 cm OM3 x12F XX.Xm Aqua
N129.7VXXXL006A	LANmark-OF Pre-Term Female MTP – Staggered LC Left Fan-Out 60 cm OM4 x12F XX.Xm Aqua
N129.5VXXXR006A	LANmark-OF Pre-Term Female MTP – Staggered LC Right Fan-Out 60 cm OM3 x12F XX.Xm Aqua
N129.7VXXXR006A	LANmark-OF Pre-Term Female MTP – Staggered LC Right Fan-Out 60 cm OM4 x12F XX.Xm Aqua

= Realizar pedido, = Reservar stock

N-number: N129.AVLLLFxxxC

N129 table

Letter in N-number	Desciption	Variations
N129.	Female MTP-LC assembly	NA
A	Fibre type	4=SM, 5=OM3; 7=OM4
V	Low loss	NA
LLL	Length between MTP connector and fan-out point	LLL in dm with 1 m increments, e.g LLL=020=2 m
F	Staggered fan-out	L: Left Staggered Fan-Out
		R: Right Staggered Fan-Out
		E: Equal Staggered Fan-Out
xxx	Distance between fan-out point and first LC connector	xxx in dm, fixed at Xxx=006=60 cm
C	Jacket colour	Aqua for OM3 and OM4, Yellow for SM

Resistencia mecánica a

No propagación de la llama

No propagador del incendio

Radio de curvatura mínimo en operación estática

Temperatura de almacenamiento (rango)

Temperatura ambiente de utilización (rango)

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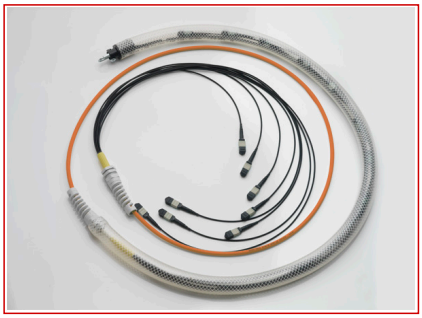
LANmark-OF MPO-MPO Pre-Term Trunk for Singlemode OS2, OM3 and OM4

- Factory terminated MPO-MPO fibre assembly
- Flexible fan-out for ease of installation in patch panel
- Small cable diameter reduces required data centre space
- Polarity in optical channel is easily maintained by its advanced design
- Only one type of patch cords and one type of cassettes required
- Fibre count between 12 and 96
- Strong fibre assembly with pulling eye
- Fibre type: Singlemode (OS2), OM3 and OM4
- LANmark-OF MPO and low loss MPO connectivity performance

Descripción



LANmark-OF

Estándares

Internacional ISO/IEC 11801:2002/ Amd 1:2008/Cor 1:2008

MPO-MPO Pre-Term characteristics

The Pre-Term is based on an advanced Micro-Bundle design for the cable. The central strength element and the aramid yarns result in a mechanical strong cable, while the Micro-Bundle allow to reduce the diameter of the cable.

This round cable design facilitates the installation of the MPO-MPO Pre-Term: the small bending radius in any direction eliminates the problems of preferential bending associated with traditional ribbon MPO cables.

The small diameter of 5.4 mm for cables up to 48 fibres and of 6.4 mm for the cable with 96 fibres of the cable reduces significantly the expensive space required for cabling in a data centre and facilitates the airflow. The small diameter also reduced the weight of the cable putting less requirements on the cable trays.

The Pre-Term is delivered with protecting tubes around the installed MPO-connectors and with a pulling eye on one side. This pulling eye is connected to the internal strength element of the cable.

The MPO fan-out starts at 50 cm from the cable grand and every next connector is 12 cm further away from the cable gland. For the 96 core the MPO connectors are grouped by 2 for easy installation in the patch panel and the distance between 2 pairs of MPO connectors is 12 cm.

The Pre-Term is available with OM3, OM4 and singlemode fibres. The singlemode fibres are according the specifiactions for G652D and OS2 cables. Details on the fibre specifications can be found in the detailed fibre datasheets.

The typical value for the insertion loss for a normal loss MPO-MPO connection is 0,3 dB. The limit value is 0,6 dB measured according to standard IEC61300-3-45.

The typical value for the insertion loss for a low loss MPO-MPO connection is 0,2 dB. The limit value is 0,35 dB measured according to standard IEC61300-3-45.

Polarity in the optical channel during installation is guaranteed due to a pair flip fibre construction. This is in agreement with standard TIA 568-B-1-7-2006 method C. It allows the continuous use of the standard patch cords eliminating the need to buy optically straight patch cords. Also polarity is maintained with the same type of cassette on both sides of the channel without the need to flip the cassette on one side.

The MPO-MPO Pre-Term has standard non-pinned (female) connectors. This

Resistencia mecánica a impactos	No propagación de la llama	No propagador del incendio	Temperatura de almacenamiento (rango)	Temperatura ambiente de utilización (rango)
10 impacts of 1 N.m	IEC 60332-1	IEC 60332-3	-20 .. 60 °C	-10 .. 60 °C

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LANmark-OF MPO-MPO Pre-Term Trunk for Singlemode OS2, OM3 and OM4

matches with the pinned (male) connectors in the MPO cassettes.

The Pre-Term meets the requirements for flame non propagation (IEC 60332-1) and fire non-propagation (IEC 60332-3). The outer jacket of the pre-term is LSZH.

The MPO-MPO Pre-Term are custom made to the required customer length.

Consistent quality

In order to produce high quality, reliable pre-terminated multi-fibre cables, there are a number of physical characteristics that must be addressed. Therefore, all LANmark-OF MPO-MPO Pre-Term are fully terminated and tested in a quality assured factory environment. They are delivered with these test results.

Características

Características mecánicas	
Maximum tensile load	1000 N
Max. Load. Long Term	250.0 N
Crush resistance (IEC 60794-1-E3)	100 N/cm
Resistencia mecánica a impactos	10 impacts of 1 N.m
Características de uso	
No propagación de la llama	IEC 60332-1
No propagador del incendio	IEC 60332-3
Temperatura de almacenamiento (rango)	-20 .. 60 °C
Temperatura ambiente de utilización (rango)	-10 .. 60 °C

Resistencia mecánica a impactos
10 impacts of 1 N.m

No propagación de la llama
IEC 60332-1

No propagador del incendio
IEC 60332-3

Temperatura de almacenamiento (rango)
-20 .. 60 °C

Temperatura ambiente de utilización (rango)
-10 .. 60 °C

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LANmark-OF MPO-MPO Pre-Term Trunk for Singlemode OS2, OM3 and OM4

Cable Characteristics

Fibre count	12F/24F/48F	96F
Cable Daimeter	5.4 mm	6.4 mm
Cable Weight (kg/km)	31 kg	50 kg
Minimum bending radius during installation	80 mm	100 mm
Minimum bending radius installed	65 mm	65 mm

Insertion loss for individual MPO connection

Fibre type	Multimode (OM3 or OM4)	Singlemode (OS2 with G652D)
Normal loss connection -Typical loss	0.3 dB	0.3 dB
Normal loss connection - Max loss	0.6 dB	0.6 dB
Low loss connection - Typical loss	0.15 dB	0.15 dB
Low loss connection - Max loss	0.35 dB	0.35 dB

Meausured in manufacturing according to standard IEC 61300-3-45

N-number codification: N15A.MKKPVXXX

Letter in N-number	Description	Variations
A	Fibre type	4: SM (OS2) or 5: OM3, 7: OM4
KK	Fibre count	12,24, 48 or 96
P	Performance	Normal (S) or low loss (L)
V	Fanout type	A: pulling eye one side + first MPO at 50 cm + sequential MPO every 12 cm (12, 24 and 48 fibres)
		E: pulling eye one side + first 2 MPO at 50 cm + sequential 2 MPO every 12 c m (96 fibres)
XXX	Length between glands	001-300 m

Example: N155.M48LA050: LANmark-OF MPO-MPO Pre-Term with 48 OM3 fibres, low loss connectors, pulling eye on one side, first MPO connector at 50 cm from cable gland and with a length of 50 m between the cable glands

Resistencia mecánica a impactos

No propagación de la llama

No propagador del incendio

Temperatura de almacenamiento (rango)

Temperatura ambiente de utilización (rango)

Contacto
Sistemas de Cableado Estructurado
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nexans.iberia@nexans.com

LANmark-OF MPO-MPO Slim Pre-Term for Singlemode (OS2), OM3 and OM4

- Factory terminated MPO-MPO fibre assembly
- Easy installation of Pre-Term since assembly can bend in any direction.
- Small diameter of cable to reduce data centre space
- Polarity in optical channel is easily maintained by its advanced design
- Only one type of patch cords and one type of cassettes required
- 12 fibres
- Fibre type: Singlemode (OS2), OM3 and OM4
- Normal and low loss connectivity

Descripción

LANmark-OF

MPO-MPO Pre-Term characteristics

The round cable design facilitates the installation of the MPO-MPO Pre-Term: the small bending radius of only 30 mm in any direction eliminates the problems of preferential bending associated with traditional ribbon MPO cables.

Polarity in the optical channel during installation is guaranteed due to a pair flip fibre construction. This is in agreement with standard TIA 568-B-1-7-2006 method C. It allows the continuous use of the standard patch cords eliminating the need to buy optically straight patch cords. Also polarity is maintained with the same type of cassette on both sides of the channel without the need to flip the cassette on one side.

The Pre-Term is available with OM3, OM4 and singlemode fibres. The singlemode fibres are according to the specifications for G652D and OS2 cables. Details on the fibre specifications can be found in the detailed fibre datasheets.

The typical value for the insertion loss for a normal loss MPO-MPO connection is 0,3 dB. The limit value is 0,6 dB measured according to standard IEC61300-3-45.

The typical value for the insertion loss for a low loss MPO-MPO connection is 0,2 dB. The limit value is 0,35 dB measured according to standard IEC61300-3-45.

Mechanical characteristics of the Pre-Term are conform to the IEC-60794-2-20 standard for indoor cables.

The small diameter of 2.5 mm of the cable reduces significantly the expensive space required for cabling in a data centre and facilitates the airflow.

The MPO-MPO Pre-Term has standard non-pinned (female) connectors. This matches with the pinned (male) connectors in the MPO modules.

Consistent quality

In order to produce high quality, reliable pre-terminated multi-fibre cables, there are a number of physical characteristics that must be addressed. Therefore, all LANmark-OF MPO-MPO Pre-Term are fully terminated and tested in a quality assured factory environment. They are delivered with these test results.

Estándares

Internacional ISO/IEC 11801

No propagación de la llama	No propagador del incendio	Radio de curvatura mínimo en operación estática	Temperatura de almacenamiento (rango)	Temperatura ambiente de utilización (rango)
IEC 60332-1	IEC 60332-3	30 mm	-40 .. 60 °C	0 .. 50 °C

Los dibujos, diseños, especificaciones, planos y detalles de pesos, medidas y dimensiones contenidos en la documentación técnica o comercial de Nexans son meramente indicativos y no vincularán, ni se considerarán que constituyen una representación por parte de Nexans.

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LANmark-OF MPO-MPO Slim Pre-Term for Singlemode (OS2), OM3 and OM4

MPO-MPO Pre-Term Benefits

- Short & reliable manufacturing lead-time
- Fast installation times
- No specialised termination training required
- No consumables, termination tool kits
- No cable preparation necessary
- No cable or connector scrap
- No termination errors on site
- Delivered fully tested, labelled and documented
- Improved end-to-end attenuation
- Reduced on-site disruption and installation time
- Cost effective solution

No propagación de la llama
IEC 60332-1

No propagador del incendio
IEC 60332-3

Radio de curvatura mínimo en operación estática
30 mm

Temperatura de almacenamiento (rango)
-40 .. 60 °C

Temperatura ambiente de utilización (rango)
0 .. 50 °C

Los dibujos, diseños, especificaciones, planos y detalles de pesos, medidas y dimensiones contenidos en la documentación técnica o comercial de Nexans son meramente indicativos y no vincularán, ni se considerarán que constituyen una representación por parte de Nexans.

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LANmark-OF MPO-MPO Slim Pre-Term for Singlemode (OS2), OM3 and OM4

Características

Características dimensionales	
Diámetro exterior	2,5 mm
Peso aproximado	5,5 kg/km
Características mecánicas	
Maximum pulling force (IEC 60794-1-2-E1)	400 N
Crush resistance (IEC 60794-1-E3)	50 N/cm
Características de uso	
No propagación de la llama	IEC 60332-1
No propagador del incendio	IEC 60332-3
Radio de curvatura mínimo en operación estática	30 mm
Temperatura de almacenamiento (rango)	-40 .. 60 °C
Temperatura ambiente de utilización (rango)	0 .. 50 °C

Insertion loss for individual MPO connection

Fibre type	Multimode (OM3 or OM4)	Singlemode (OS2 with G652D)
Normal loss connection -Typical loss	0.3 dB	0.3 dB
Normal loss connection - Max loss	0.6 dB	0.6 dB
Low loss connection - Typical loss	0.15 dB	0.15 dB
Low loss connection - Max loss	0.3 dB	0.3 dB

Measured in manufacturing according to standard IEC 61300-3-45

N-number codification: N15A.P12QVXXX

Letter in N-number	Description	Variations
A	Fibre type	4: SM (OS2) or 5: OM3, 7: OM4
Q	Performance	Normal (S) or low loss (L)
V	Fanout type	Default (N): No pulling eye and protection tube
XXX	Length between glands	001-300 m

Example: N155.P12LN050: LANmark-OF MPO-MPO Slim Pre-Term with 12 OM3 fibres, low loss connectors with a length of 50 m between the cable glands.

No propagación de la llama

No propagador del incendio

Radio de curvatura mínimo en operación estática

Temperatura de almacenamiento (rango)

Temperatura ambiente de utilización (rango)

Contacto
Sistemas de Cableado Estructurado
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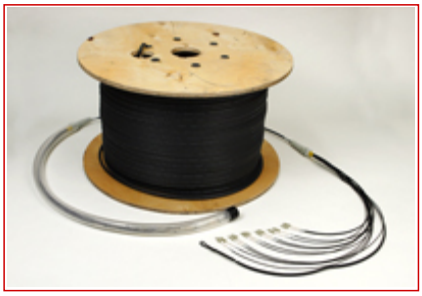
LANmark-OF OM3, OM4, Singlemode (OS2) Fibre Assembly

Factory Pre-terminated assemblies which combine ease of installation and outstanding performances. 100% customised for your needs, this product meet the most demanding lead-times.

Descripción



The solution consist of universal **indoor cable** assembled in factory with connectors at each end. **Any type of connectors** can be used for the assembly: ST, SC, LC, MTRJ, etc. Fibre types available: Single mode 9/125µm (OS2 cables with G652D fibres) and laser optimised 50/125µm OM3 or OM4 fibres. A **pulling eye system** is positioned at the end of the cable to protect the terminations while pulling the cable. When the cable has been installed, the pulling eye system is cut off and the terminated fibres are fed into a patch panel. Since the assembly is done in factory, all pre-terminated fibre optic cables are **100% tested** and supplied with test results.

LANmark-OF

Estándares

Internacional ISO/IEC 11801

Applications

Interbuilding and Intrabuilding backbones for Local Area Network (**LAN**) Premise and Campus applications. Horizontal fibre distribution to work area and zone. Equipment distribution area trunk cables for **Data centre** and Storage Area Network (**SAN**) applications.

Applications support :

- Ethernet 10 base FL
- Fast Ethernet 100 base FX
- Gigabit Ethernet 1000 base SX/LX
- 10 Gigabit Ethernet 10G Base SX/LX
- 1-2-4-10 Gbps Fibre Channel

Fibre types

The Pre-Terms are available with singlemode (9/125 um) fibre with G652D fibres. This results in OS2 cables.

For multimode laser optimised fibres (50/125 um) are available with OM3 or OM4 performance.

Details with the exact optical performance can be found in the specific fibre datasheets.

Benefits

- Short & reliable manufacturing lead-time
- Fast installation times
- No specialised termination training required
- No consumables, termination tool kits
- No cable preparation necessary
- No cable or connector scrap
- No termination errors on site
- Delivered fully tested, labelled and documented
- High performing connectors: Max IL 0,40dB*
- Improved end-to-end attenuation
- Improved application migration
- Reduced on-site disruption and installation time
- Highly cost effective solution

*For LC-SC-ST

Los dibujos, diseños, especificaciones, planos y detalles de pesos, medidas y dimensiones contenidos en la documentación técnica o comercial de Nexans son meramente indicativos y no vincularán, ni se considerarán que constituyen una representación por parte de Nexans.

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LANmark-OF OM3, OM4, Singlemode (OS2) Fibre Assembly

Tailor made solution

Nexans ***LANmark-OF*** pre-term solutions are **100% tailor made** solutions. You specify your cable and connectivity requirements and our optical engineers develop and manufacture your end-to-end pre-terminated cable solution.

What needs to be specified:

1. Cable type Singlemode OS2-OM3-OM4
2. Fibre count: 6-12-24
3. cable length between enclosures
4. Fanout size (900µ or 2.0 mm)
5. Connector type on each end LC-MTRJ- SC-ST
6. Use of pulling system

Consistent quality

In order to produce high quality, reliable pre-terminated multi-fibre cables, there are a number of physical characteristics that must be addressed. Therefore, all LANmark-OF Pre-term assemblies are fully terminated and tested in a quality assured factory environment. They are delivered with test results protocol and benefit from the 25 years LANmark-OF warranty program.

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LANmark-OF OM3, OM4, Singlemode (OS2) Fibre Assembly

LANmark-OF Pre-Term specifications

Cable Specifications

Fibre count	Diameter	Sheath	Min. bending radius
6	6,10mm	LSZH	150 mm
12	6,60mm	LSZH	150 mm
24	8,1mm	LSZH	150 mm

Fibre count	Max Pulling force	Compression	Impacts	Temp.range
6	100daN	100daN/dm	100 impacts of 1 N.m	-20°C +60°C
12	140daN	100daN/dm	100 impacts of 1 N.m	-20°C +60°C
24	140daN	100daN/dm	100 impacts of 1 N.m	-20°C +60°C

Measurement Standard Mechanical Performances

Min.bending radius	IEC-60794-1-E10
Maximum pulling force	IEC-60794-1-E1
Compression	IEC-60794-1-E3
Impacts	IEC-60794-1-E4
Operating temperatures	IEC-60794-1-F1

Connector specifications

Type	Standard Max IL	LANmark-OF Pre-term	Stand. Min RL	LANmark-OF Pre-Term
Multimode				
SC/PC	0,75 dB	**0.35 dB**	20dB	35 dB
LC/PC	0,75 dB	**0.35 dB**	20dB	35 dB
ST/PC	0,75 dB	**0.35 dB**	20dB	35 dB
MT-RJ/PC	0,75 dB	**0.35 dB**	20dB	35 dB
Single Mode				
SC/PC	0,75 dB	**0.35 dB**	20dB	50 dB
LC/PC	0,75 dB	**0.35 dB**	20dB	50 dB
ST/PC	0,75 dB	**0.35 dB**	20dB	50 dB
MT-RJ/PC	0,75 dB	**0.35 dB**	20dB	35 dB

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LANmark-OF OM3, OM4, Singlemode (OS2) Fibre Assembly

N-number codification: N15F.ABBCFCFPXXX

F: Fibre type	4: Singlemode (OS2) with G652D
	5: OM3 fibre
	7: OM4 fibre
BB: fibre count	06: 6 fibres
	12: 12 fibres
	24: 24 fibres
C: Connector type	L: LC
	C: SC
	T: ST
F: Fan-out type	9: 900 um fanout
	2: 2.0 mm fanout
P: pulling eye	A (standard): one side
XXX	length in meter

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

- 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
- Only one type of patch cords and one type of cassettes required for duplex transmission
- Fibre count: 12F, 24F, 48F and 96F
- Fibre type: OM3, OM4 and singlemode (OS2)

Descripción

LANmark-OF

Optimised cable design for data centres based on Micro-Bundle

Small cable

- Cable has small diameter
- Less space required for cabling in a data centre
- Less influence on airflow
- Less weight in cable trays
- More cables in trays

Easy to install round cable

- Small bending radius
- Flexible fan-out to install in patch panels

The outer jacket of the Pre-Term is LSZH. The Pre-Terms meet the requirements for flame non-propagation (IEC 60332-1) and fire non-propagation (IEC 60332-3).

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. Each tube contains 12 fibres. 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.

Estándares

Internacional ISO/IEC 11801

Resistencia mecánica a impactos	Temperatura ambiente de instalación (rango)	Temperatura de almacenamiento (rango)	No propagación de la llama	No propagador del incendio
10 impacts of 1 N.m	0 .. 40 °C	-20 .. 60 °C	IEC 60332-1	IEC 60332-3

Los dibujos, diseños, especificaciones, planos y detalles de pesos, medidas y dimensiones contenidos en la documentación técnica o comercial de Nexans son meramente indicativos y no vincularán, ni se considerarán que constituyen una representación por parte de Nexans.

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

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. On one side there is also a protecting net around the fan-out with MTP connectors and a pulling eye. The maximum pulling force on the pulling eye is 450N.

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.

On the cable at a distance of 10-20 cm of the cable a label is put that contains the following information:

- Serial number
- Traceability code
- N-number

Optical Performance and Polarity

The typical value for the insertion loss for a low loss multimode and singlemode MTP-MTP* connection is 0,125 dB. The limit value is 0,3 dB 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 straight key up / key up design with a fibre pair-flip. This is in agreement with standard TIA 568-B-1-7-2006 method B.

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

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

Consistent quality

All LANmark-OF MTP-MTP Pre-Term are fully terminated and tested in a quality assured factory environment. The test results are delivered in the box with the Pre-Terms.

Resistencia mecánica a impactos
10 impacts of 1 N.m

Temperatura ambiente de instalación (rango)
0 .. 40 °C

Temperatura de almacenamiento (rango)
-20 .. 60 °C

No propagación de la llama
IEC 60332-1

No propagador del incendio
IEC 60332-3

Los dibujos, diseños, especificaciones, planos y detalles de pesos, medidas y dimensiones contenidos en la documentación técnica o comercial de Nexans son meramente indicativos y no vincularán, ni se considerarán que constituyen una representación por parte de Nexans.

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

* MTP is a trade name of US Conec

Características

Características mecánicas	
Resistencia mecánica a impactos	10 impacts of 1 N.m
Características de uso	
Temperatura ambiente de instalación (rango)	0 .. 40 °C
Temperatura de almacenamiento (rango)	-20 .. 60 °C
No propagación de la llama	IEC 60332-1
No propagador del incendio	IEC 60332-3

Lista de Productos

=Realizar pedido, =Reservar stock

Ref. Nexans	Nombre
N155.B12MMExxxA	LANmark-OF ENSPACE Method B Pre-Term OM3 x12F MTP/M-MTP/M Low Loss fan out E xxxm LSZH Aqua
N155.B24MMExxxA	LANmark-OF ENSPACE Method B Pre-Term OM3 x24F MTP/M-MTP/M Low Loss fan out E xxxm LSZH Aqua
N155.B48MMExxxA	LANmark-OF ENSPACE Method B Pre-Term OM3 x48F MTP/M-MTP/M Low Loss fan out E xxxm LSZH Aqua
N155.B96MMExxxA	LANmark-OF ENSPACE Method B Pre-Term OM3 x96F MTP/M-MTP/M Low Loss fan out E xxxm LSZH Aqua
N157.B12MMExxxA	LANmark-OF ENSPACE Method B Pre-Term OM4 x12F MTP/M-MTP/M Low Loss fan out E xxxm LSZH Aqua
N157.B24MMExxxA	LANmark-OF ENSPACE Method B Pre-Term OM4 x24F MTP/M-MTP/M Low Loss fan out E xxxm LSZH Aqua
N157.B48MMExxxA	LANmark-OF ENSPACE Method B Pre-Term OM4 x48F MTP/M-MTP/M Low Loss fan out E xxxm LSZH Aqua
N157.B96MMExxxA	LANmark-OF ENSPACE Method B Pre-Term OM4 x96F MTP/M-MTP/M Low Loss fan out E xxxm LSZH Aqua
N154.B12MMExxxY	LANmark-OF ENSPACE Method B Pre-Term SM x12F MTP/M-MTP/M Low Loss fan out E xxxm LSZH Yellow
N154.B24MMExxxY	LANmark-OF ENSPACE Method B Pre-Term SM x24F MTP/M-MTP/M Low Loss fan out E xxxm LSZH Yellow
N154.B48MMExxxY	LANmark-OF ENSPACE Method B Pre-Term SM x48F MTP/M-MTP/M Low Loss fan out E xxxm LSZH Yellow
N154.B96MMExxxY	LANmark-OF ENSPACE Method B Pre-Term SM x96F MTP/M-MTP/M Low Loss fan out E xxxm LSZH Yellow

= Realizar pedido, = Reservar stock

Resistencia mecánica a impactos
10 impacts of 1 N.m

Temperatura ambiente de instalación (rango)
0 .. 40 °C

Temperatura de almacenamiento (rango)
-20 .. 60 °C

No propagación de la llama
IEC 60332-1

No propagador del incendio
IEC 60332-3

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Contacto
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LANmark-OF ENSPACE Method C MTP-MTP Pre-Term

- 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, 24F, 48F and 96F
- Fibre type: OM3, OM4 and singlemode (OS2)

Descripción

LANmark-OF

Optimised cable design for data centres based on Micro-Bundle

Small cable

- Cable has small diameter
- Less space required for cabling in a data centre
- Less influence on airflow
- Less weight in cable trays
- More cables in trays

Easy to install round cable

- Small bending radius
- Flexible fan-out to install in patch panels

The outer jacket of the Pre-Term is LSZH. The Pre-Terms meet the requirements for flame non-propagation (IEC 60332-1) and fire non-propagation (IEC 60332-3).

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. Each tube contains 12 fibres. 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.

Estándares

Internacional ISO/IEC 11801

Resistencia mecánica a impactos	Temperatura ambiente de instalación (rango)	Temperatura de almacenamiento (rango)	No propagación de la llama	No propagador del incendio
10 impacts of 1 N.m	0 .. 40 °C	-20 .. 60 °C	IEC 60332-1	IEC 60332-3

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LANmark-OF ENSPACE Method C MTP-MTP Pre-Term

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. On one side there is also a protecting net around the fan-out with MTP connectors and a pulling eye. The maximum pulling force on the pulling eye is 450N.

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.

On the cable at a distance of 10-20 cm of the cable a label is put that contains the following information:

- Serial number
- Traceability code
- N-number

Optical Performance and Polarity

The typical value for the insertion loss for a low loss multimode and singlemode MTP-MTP* connection is 0,125 dB. The limit value is 0,3 dB 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 key up / key down design with a fibre pair-flip. This is in agreement with standard TIA 568-B-1-7-2006 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.

Consistent quality

All LANmark-OF MTP-MTP Pre-Term are fully terminated and tested in a quality assured factory environment. The test results are delivered in the box with the Pre-Terms.

Resistencia mecánica a impactos
10 impacts of 1 N.m

Temperatura ambiente de instalación (rango)
0 .. 40 °C

Temperatura de almacenamiento (rango)
-20 .. 60 °C

No propagación de la llama
IEC 60332-1

No propagador del incendio
IEC 60332-3

Los dibujos, diseños, especificaciones, planos y detalles de pesos, medidas y dimensiones contenidos en la documentación técnica o comercial de Nexans son meramente indicativos y no vincularán, ni se considerarán que constituyen una representación por parte de Nexans.

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LANmark-OF ENSPACE Method C MTP-MTP Pre-Term

* MTP is a trade name of US Conec

Características

Características mecánicas	
Resistencia mecánica a impactos	10 impacts of 1 N.m
Características de uso	
Temperatura ambiente de instalación (rango)	0 .. 40 °C
Temperatura de almacenamiento (rango)	-20 .. 60 °C
No propagación de la llama	IEC 60332-1
No propagador del incendio	IEC 60332-3

Lista de Productos

=Realizar pedido, =Reservar stock

Ref. Nexans	Nombre
N155.C12MMExxxA	LANmark-OF ENSPACE Method C Pre-Term OM3 x12F MTP/M-MTP/M Low Loss fan out E xxxm LSZH Aqua
N155.C24MMExxxA	LANmark-OF ENSPACE Method C Pre-Term OM3 x24F MTP/M-MTP/M Low Loss fan out E xxxm LSZH Aqua
N155.C48MMExxxA	LANmark-OF ENSPACE Method C Pre-Term OM3 x48F MTP/M-MTP/M Low Loss fan out E xxxm LSZH Aqua
N155.C96MMExxxA	LANmark-OF ENSPACE Method C Pre-Term OM3 x96F MTP/M-MTP/M Low Loss fan out E xxxm LSZH Aqua
N157.C12MMExxxA	LANmark-OF ENSPACE Method C Pre-Term OM4 x12F MTP/M-MTP/M Low Loss fan out E xxxm LSZH Aqua
N157.C24MMExxxA	LANmark-OF ENSPACE Method C Pre-Term OM4 x24F MTP/M-MTP/M Low Loss fan out E xxxm LSZH Aqua
N157.C48MMExxxA	LANmark-OF ENSPACE Method C Pre-Term OM4 x48F MTP/M-MTP/M Low Loss fan out E xxxm LSZH Aqua
N157.C96MMExxxA	LANmark-OF ENSPACE Method C Pre-Term OM4 x96F MTP/M-MTP/M Low Loss fan out E xxxm LSZH Aqua
N154.C12MMExxxY	LANmark-OF ENSPACE Method C Pre-Term SM x12F MTP/M-MTP/M Low Loss fan out E xxxm LSZH Yellow
N154.C24MMExxxY	LANmark-OF ENSPACE Method C Pre-Term SM x24F MTP/M-MTP/M Low Loss fan out E xxxm LSZH Yellow
N154.C48MMExxxY	LANmark-OF ENSPACE Method C Pre-Term SM x48F MTP/M-MTP/M Low Loss fan out E xxxm LSZH Yellow
N154.C96MMExxxY	LANmark-OF ENSPACE Method C Pre-Term SM x96F MTP/M-MTP/M Low Loss fan out E xxxm LSZH Yellow

= Realizar pedido, = Reservar stock

Resistencia mecánica a impactos
10 impacts of 1 N.m

Temperatura ambiente de instalación (rango)
0 .. 40 °C

Temperatura de almacenamiento (rango)
-20 .. 60 °C

No propagación de la llama
IEC 60332-1

No propagador del incendio
IEC 60332-3

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LANmark-OF ENSPACE Patching Assemblies

- Factory terminated LC fibre assembly
- ENSPACE Pre-Term for patching on switches side A and installation in patch panel side B
- Fibre count: 12F, 24F, 48F and 96F
- Fibre type: OM3, OM4 and singlemode (OS2)
- Small cable diameter reduces required data centre space

Descripción

Patching assemblies allow the rapid deployment of high density patching in SAN and LAN environments in data centres. Patching assemblies allow to represent switches with patch panels. On one side there is a patch cord fan-out design to allow patching on switches. On the other side the assembly is optimized for installation inside the patch panel.

LANmark-OF

Optimised cable design for data centres based on Micro-Bundle Indoor

- Small diameter
- More cables in cable trays
- Less influence on airflow
- Less weight in cable trays
- Small bending radius
- Flexible fan-out to install in patch panels

The outer jacket of the cable is LSZH. The cable meet the requirements for flame non-propagation (IEC 60332-1) and fire non-propagation (IEC 60332-3).

Estándares

Internacional ISO/IEC 11801

Pre-Term characteristics

On the side of the active equipment the fibres are grouped by 2. These 2 fibres are inside a round 2mm patch cord and are terminated with an uniboot connector. The length from the fan-out point to the uniboot connectors is typical 1m for all uniboot connectors, but can be customized to 1,5m or 2m length.

The 900 µm side is optimised for installation inside the LANmark-OF ENSPACE patch panel. This side has a dual fan-out design.

The first fan-out point is the transition point between the cable and the legs of the fan-out. Each leg of the fan-out contains 1 Micro-Bundle with 12 fibres inside. This fan-out has been reinforced with aramid yarns. Each leg has a label close to the second fan-out to identify the leg. The jacket of the leg is the same as the jacket of the cable.

The second fan-out distributes the reinforced Micro-Bundle into 12 buffered fibres.

Resistencia mecánica a impactos
10 impacts of 1 N.m

Temperatura ambiente de instalación (rango)
0 .. 40 °C

Temperatura de almacenamiento (rango)
-20 .. 60 °C

No propagación de la llama
IEC 60332-1

No propagador del incendio
IEC 60332-3

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LANmark-OF ENSPACE Patching Assemblies

The 900 µm tubes are transparent and the fibres are identified with colored boots in compliance with the TIA/EIA-standard.

The second fan-out together with the 12 buffered fibres and connectors are optimized for installation and fixing into the ENSPACE adaptor modules.

The Tight Buffered fibres of the Pre-Term are easy to arrange inside an ENSPACE module since they are at the same time flexible and robust enough to handle.

The fan-out is protected with a bubble foam and a black net for protection during transport and installation. In addition every bundle of 12 connectors has an additional individual protection to avoid mixing them up with connectors from another bundle.

The 900 µm side of the Pre-Term has a PG13 cable gland that can be fixed in the LANmark-OF patch panels.

On the 900µ side a pulling eye and a black protecting net is installed. The maximum pulling force on the pulling eye is 450N.

Insertion loss for the connectors is less then 0,3 dB measured according to standard IEC 61300-3-4. The minimum return loss is measured according to standard IEC 61300-3-6. For a multimode LC connection the return loss is 30 dB, for a singlemode connection it is 40 dB and for a LC/APC connection it is 55 dB.

“xxx” in the N-number is the length between the fan-out points of both sides.

An additional label is put at 10-20cm from the cable gland. This label contains information regarding traceability and identification

- Serial number
- Traceability code with the reference of the supplier and de production date
- N-number of the product

Características

Características mecánicas	
Resistencia mecánica a impactos	10 impacts of 1 N.m
Características de uso	
Temperatura ambiente de instalación (rango)	0 .. 40 °C
Temperatura de almacenamiento (rango)	-20 .. 60 °C
No propagación de la llama	IEC 60332-1
No propagador del incendio	IEC 60332-3

Resistencia mecánica a impactos
10 impacts of 1 N.m

Temperatura ambiente de instalación (rango)
0 .. 40 °C

Temperatura de almacenamiento (rango)
-20 .. 60 °C

No propagación de la llama
IEC 60332-1

No propagador del incendio
IEC 60332-3

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LANmark-OF ENSPACE Patching Assemblies

Lista de Productos

=Realizar pedido, =Reservar stock

Ref. Nexans	Nombre
N155.S12L2L9AxxxA	LANmark-OF ENSPACE Patching Assembly OM3 x12F DLC(900µm)-LC(900µm) fan out A 1m xxxm LSZH Aqua
N155.S24L2L9AxxxA	LANmark-OF ENSPACE Patching Assembly OM3 x24F DLC(900µm)-LC(900µm) fan out A 1m xxxm LSZH Aqua
N155.S48L2L9AxxxA	LANmark-OF ENSPACE Patching Assembly OM3 x48F DLC(900µm)-LC(900µm) fan out A 1m xxxm LSZH Aqua
N155.S96L2L9AxxxA	LANmark-OF ENSPACE Patching Assembly OM3 x96F DLC(900µm)-LC(900µm) fan out A 1m xxxm LSZH Aqua
N157.S12L2L9AxxxA	LANmark-OF ENSPACE Patching Assembly OM4 x12F DLC(900µm)-LC(900µm) fan out A 1m xxxm LSZH Aqua
N157.S24L2L9AxxxA	LANmark-OF ENSPACE Patching Assembly OM4 x24F DLC(900µm)-LC(900µm) fan out A 1m xxxm LSZH Aqua
N157.S48L2L9AxxxA	LANmark-OF ENSPACE Patching Assembly OM4 x48F DLC(900µm)-LC(900µm) fan out A 1m xxxm LSZH Aqua
N157.S96L2L9AxxxA	LANmark-OF ENSPACE Patching Assembly OM4 x96F DLC(900µm)-LC(900µm) fan out A 1m xxxm LSZH Aqua
N154.S12L2L9AxxxY	LANmark-OF ENSPACE Patching Assembly SM x12F DLC(900µm)-LC(900µm) fan out A 1m xxxm LSZH Yellow
N154.S24L2L9AxxxY	LANmark-OF ENSPACE Patching Assembly SM x24F DLC(900µm)-LC(900µm) fan out A 1m xxxm LSZH Yellow
N154.S48L2L9AxxxY	LANmark-OF ENSPACE Patching Assembly SM x48F DLC(900µm)-LC(900µm) fan out A 1m xxxm LSZH Yellow
N154.S96L2L9AxxxY	LANmark-OF ENSPACE Patching Assembly SM x96F DLC(900µm)-LC(900µm) fan out A 1m xxxm LSZH Yellow

= Realizar pedido, = Reservar stock

Resistencia mecánica a impactos
10 impacts of 1 N.m

Temperatura ambiente de instalación (rango)
0 .. 40 °C

Temperatura de almacenamiento (rango)
-20 .. 60 °C

No propagación de la llama
IEC 60332-1

No propagador del incendio
IEC 60332-3

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LANmark-OF MTP-MTP Pre-Term

- Factory terminated MTP-MTP fibre assembly
- Flexible fan-out for ease of installation in patch panel
- Small cable diameter reduces required data centre space
- Polarity in optical channel is easily maintained by its advanced design
- Only one type of patch cords and one type of cassettes required
- Fibre count: 12F, 24F, 48F and 96F
- Fibre type: OM3, OM4 and singlemode (OS2)

Descripción

LANmark-OF

Optimised cable design for data centres based on Micro-Bundle.

Small cable

- Diameter: ranges from 3,65 mm for a 12 core Pre-Term to 6,4 mm for 96 cores.
- Less space required for cabling in a data centre
- Less influence on airflow.
- Less weight in cable trays.

Easy to install round cable

- Small bending radius: ranging from 40 mm for a 12 core to 65 mm for a 96 core Pre-Term.
- No preferential bending in any direction as opposed to preferential bending with traditional ribbon MTP* cables
- Flexible fan-out to install in patch panels

The outer jacket of the Pre-Term is LSZH. The Pre-Terms meet the requirements for flame non-propagation (IEC 60332-1) and fire non-propagation (IEC 60332-3).

Estándares

Internacional ISO/IEC 11801

MTP*-MTP Pre-Term characteristics

The MTP-MTP Pre-Term has standard non-pinned (female) connectors. This matches with the pinned (male) connectors in the 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 12 core MTP-MTP* Pre-Term – Laying is optimised for installation by laying in data centres over short distances. Due to the short length for installation there is no pulling eye and protective tube provided with this Pre-Term.

The 12 core MTP-MTP* Pre-Term – Pulling is optimised for installation by pulling in data centres over longer distances. It is delivered with protecting tubes around the fan-out with the MTP connector and with a pulling eye on one side. This pulling eye is connected to the internal strength element of the cable.

Resistencia mecánica a impactos	Temperatura ambiente de instalación (rango)	Temperatura de almacenamiento (rango)	No propagación de la llama	No propagador del incendio
10 impacts of 1 N.m	0 .. 40 °C	-20 .. 60 °C	IEC 60332-1	IEC 60332-3

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LANmark-OF MTP-MTP Pre-Term

The 24, 48 and 96 core Pre-Terms are optimized for both pulling and laying in data centers. They are delivered with protecting tubes around the fan-out with MTP connectors and with a pulling eye on one side. This pulling eye is connected to the internal strength element of the cable.

Optical Performance and Polarity

The typical value for the insertion loss for a low loss multimode MTP-MTP* connection is 0,2 dB. The limit value is 0,35 dB 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 typical value for the insertion loss for a singlemode MTP-MTP* connection is 0,3 dB. The limit value is 0,6 dB measured according to standard IEC61300-3-45. The minimum return loss for a singlemode MTP connection is 45 dB measured according to IEC 61300-3-6.

Polarity in the optical channel during installation is guaranteed due to a pair-flip fibre construction. This is in agreement with standard TIA 568-B-1-7-2006 method C. It allows the continuous use of traditional patch cords on both sides of the channel, i.e. eliminating the need to buy both optically straight and crossed patch cords. Polarity is also maintained with the same type of cassette on both sides of the channel without the need to flip the cassette on one side.

Consistent quality

All LANmark-OF MTP-MTP Pre-Term are fully terminated and tested in a quality assured factory environment. The test results are delivered in the box with the Pre-Terms.
* MTP is a trade name of US Conec

Características

Características mecánicas	
Resistencia mecánica a impactos	10 impacts of 1 N.m
Características de uso	
Temperatura ambiente de instalación (rango)	0 .. 40 °C
Temperatura de almacenamiento (rango)	-20 .. 60 °C
No propagación de la llama	IEC 60332-1
No propagador del incendio	IEC 60332-3

Optical Performance

Fiber optic type	Insertion Loss, max [dB]	Return Loss, min [dB]
OM3 50/125	0,35	20
OM4 50/125	0,35	20
SM (G.652D)	0,6	45

Resistencia mecánica a impactos
10 impacts of 1 N.m

Temperatura ambiente de instalación (rango)
0 .. 40 °C

Temperatura de almacenamiento (rango)
-20 .. 60 °C

No propagación de la llama
IEC 60332-1

No propagador del incendio
IEC 60332-3

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LANmark-OF MTP-MTP Pre-Term

Mechanical and Dimensional Characteristics duplicata

Nb optical fibres	Nom. outer diam. [mm]	Min. dynamic operating bending rad. [mm]	Radio de curvatura mínimo en operación estática [mm]	Crush resistance (IEC 60794-1-E3) [N/cm]
12	3,65	40,0	40	50
12	3,65	40,0	40	50
24	5,4	80,0	65	100
48	5,4	80,0	65	100
96	6,4	100,0	65	100

N-Numbers and Description duplicata

Fiber optic type	Ref. Nexans	Nombre
OM3 50/125	N155.M12LAXXXA	LANmark-OF Pre-Term MTP-MTP OM3 Low Loss x12F Pulling XXXm Aqua
OM3 50/125	N155.M12LPXXXA	LANmark-OF Pre-Term MTP-MTP OM3 Low Loss x12F Laying XXXm Aqua
OM3 50/125	N155.M24LAXXXA	LANmark-OF Pre-Term MTP-MTP OM3 Low Loss x24F fan out A XXXm Aqua
OM3 50/125	N155.M48LAXXXA	LANmark-OF Pre-Term MTP-MTP OM3 Low Loss x48F fan out A XXXm Aqua
OM3 50/125	N155.M96LEXXXA	LANmark-OF Pre-Term MTP-MTP OM3 Low Loss x96F fan out E XXXm Aqua
OM4 50/125	N157.M12LAXXXA	LANmark-OF Pre-Term MTP-MTP OM4 Low Loss x12F Pulling XXXm Aqua
OM4 50/125	N157.M24LAXXXA	LANmark-OF Pre-Term MTP-MTP OM4 Low Loss x24F fan out A XXXm Aqua
OM4 50/125	N157.M48LAXXXA	LANmark-OF Pre-Term MTP-MTP OM4 Low Loss x48F fan out A XXXm Aqua
OM4 50/125	N157.M96LEXXXA	LANmark-OF Pre-Term MTP-MTP OM4 Low Loss x96F fan out E XXXm Aqua
SM (G.652D)	N154.M12SAXXXY	LANmark-OF Pre-Term MTP-MTP SM x12F Pulling XXXm Yellow
SM (G.652D)	N154.M12SPXXXY	LANmark-OF Pre-Term MTP-MTP SM x12F Laying XXXm Yellow
SM (G.652D)	N154.M24SAXXXY	LANmark-OF Pre-Term MTP-MTP SM x24F fan out A XXXm Yellow
SM (G.652D)	N154.M48SAXXXY	LANmark-OF Pre-Term MTP-MTP SM x48F fan out A XXXm Yellow
SM (G.652D)	N154.M96SAXXXY	LANmark-OF Pre-Term MTP-MTP SM x96F fan out E XXXm Yellow

Resistencia mecánica a impactos
10 impacts of 1 N.m

Temperatura ambiente de instalación (rango)
0 .. 40 °C

Temperatura de almacenamiento (rango)
-20 .. 60 °C

No propagación de la llama
IEC 60332-1

No propagador del incendio
IEC 60332-3

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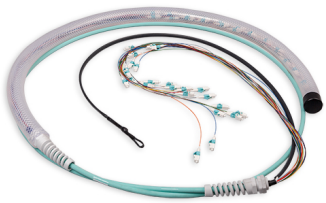
LANmark-OF Universal SC/LC Pre-Terminated Fibre Assembly

- Factory terminated SC/LC fibre assembly
- Universal Pre-Term for installation indoor and outdoor in a duct
- Fibre count: 12F and 24F
- Fibre type: OM3, OM4 and singlemode (OS2)

Descripción

The assembly consists of a Tight Buffer Universal cable terminated with connectors on each side in a factory. The connectors are typically LC, SC or ST. A tube protects the connectors during transport and installation. A pulling eye system is positioned at one side of the Pre-Term to facilitate the installation. When the cable has been installed, the protective tube and pulling eye system are removed. The terminated fibres are fed into a patch panel and the Pre-Term can be quickly installed.



LANmark-OF

Estándares

Internacional ISO/IEC 11801

Applications

- Backbones for Local Area Network (LAN) Applications.
- Horizontal fibre distribution to work area and zone.
- Trunk cables for Data Centres
- Outdoor in a duct between buildings

Pre-Term characteristics

In order to reduce overlengths the Pre-Terms are custom made and available with 1m increments. The "XXX" in the N-number is the length in meter 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 laying and pulling. They are delivered with protecting tubes around the connectors and with a pulling eye on one side. This pulling eye is connected to the internal strength element of the cable and has a maximum pulling force of 450N.

The LC/LC Pre-Terms come with a cable gland that fits into the LANmark-OF patch panel slots of 20 mm.

The Tight Buffered fibres of the Pre-Term are easy to arrange inside a patch panel since they are at the same time flexible and robust enough to handle.

The outer jacket of the cable is LSZH. The cable meet the requirements for flame non-propagation: the cables are compliant to IEC 60332-1 and IEC 60332-3. It can be used as indoor cable for horizontal and vertical installations.

The LANmark-OF Tight Buffer Universal can be used for outdoor installation in a duct: the water tight glass yarns make the cables fully waterproof and rodent retardant.

The Pre-term is optimized for installation inside a data centre due to its small diameter and bend radius.

The typical value for the insertion loss for the low loss LC/LC connection is 0,15 dB. The limit value is 0,3 dB measured according to standard IEC61300-3-4. The minimum return loss for a multimode LC connection is 30 dB measured according

Resistencia mecánica a impactos
10 impacts of 3 N.m

Temperatura ambiente de instalación (rango)
0 .. 40 °C

Temperatura de almacenamiento (rango)
0 .. 60 °C

No propagación de la llama
IEC 60332-1

No propagador del incendio
IEC 60332-3

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LANmark-OF Universal SC/LC Pre-Terminated Fibre Assembly

to IEC 61300-3-6. The minimum return loss for a singlemode LC connection is 40 dB measured according to IEC 61300-3-6.

All LANmark-OF Pre-term assemblies are fully terminated and tested in a quality assured factory environment. The test results are delivered in the box with the Pre-Terms.

Fibre types and jacket colours

The Pre-Terms are available with singlemode (9/125 um) fibre with G652D fibres. This results in OS2 cables. Singlemode Pre-Terms have a yellow jacket.

For multimode laser optimised fibres (50/125 um) are available with OM3 or OM4 performance. Multimode Pre-Terms are Aqua.

High exposure to UV radiation and sunlight could lead to fading of the Aqua and Yellow jacket.

Details with the exact optical performance can be found in the specific fibre datasheets.

Benefits of Pre-Term

Short & reliable manufacturing lead-time
Fast installation times
No specialised termination training required
No consumables, termination tool kits
No cable or connector scrap
No termination errors on site
Reduced on-site disruption and installation time

Características

Características mecánicas	
Resistencia mecánica a impactos	10 impacts of 3 N.m
Características de uso	
Temperatura ambiente de instalación (rango)	0 .. 40 °C
Temperatura de almacenamiento (rango)	0 .. 60 °C
No propagación de la llama	IEC 60332-1
No propagador del incendio	IEC 60332-3

Lista de Productos

=Realizar pedido, =Reservar stock

Ref. Nexans	Nombre
N155.T12LLAxxxA	LANmark-OF Universal Pre-Term OM3 x12 LC(900um)- LC(900um) pull eye one side xxxm LSZH Aqua

= Realizar pedido, = Reservar stock

Resistencia mecánica a impactos
10 impacts of 3 N.m

Temperatura ambiente de instalación (rango)
0 .. 40 °C

Temperatura de almacenamiento (rango)
0 .. 60 °C

No propagación de la llama
IEC 60332-1

No propagador del incendio
IEC 60332-3

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LANmark-OF Universal SC/LC Pre-Terminated Fibre Assembly

Ref. Nexans	Nombre
N155.T24LLAxxxA	LANmark-OF Universal Pre-Term OM3 x24 LC(900um)- LC(900um) pull eye one side xxxm LSZH Aqua
N157.T12LLAxxxA	LANmark-OF Universal Pre-Term OM4 x12 LC(900um)- LC(900um) pull eye one side xxxm LSZH Aqua
N157.T24LLAxxxA	LANmark-OF Universal Pre-Term OM4 x24 LC(900um)- LC(900um) pull eye one side xxxm LSZH Aqua
N154.T12LLAxxxY	LANmark-OF Universal Pre-Term SM x12 LC(900um)- LC(900um) pull eye one side xxxm LSZH Yellow
N154.T24LLAxxxY	LANmark-OF Universal Pre-Term SM x24 LC(900um)- LC(900um) pull eye one side xxxm LSZH Yellow

= Realizar pedido, = Reservar stock

Resistencia mecánica a impactos
10 impacts of 3 N.m

Temperatura ambiente de instalación (rango)
0 .. 40 °C

Temperatura de almacenamiento (rango)
0 .. 60 °C

No propagación de la llama
IEC 60332-1

No propagador del incendio
IEC 60332-3

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Nexans

Experto global en cables y sistemas de cableado

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