

#smartconnection

DATA NETWORKS



Data Centres

Catalogue

www.aginode.net



Solutions overview

Smart Choices for Data centres

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LANsense™

Automated Infrastructure Management

Training, Support & Warranty



Smart Choices for Data centres

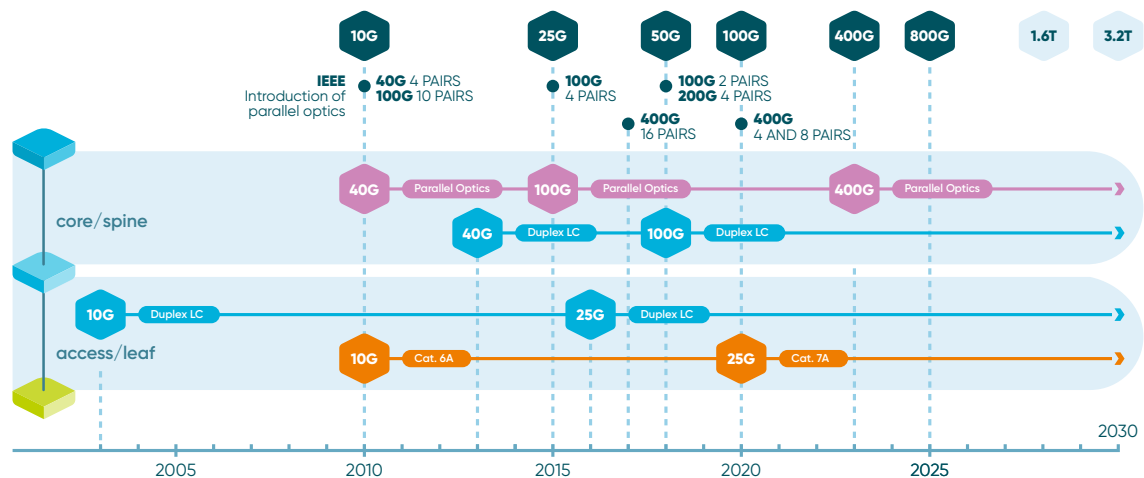
Aginode delivers future-ready data centre cabling infrastructure with high-density fibre and copper solutions built for scalability, efficiency and uptime.

Performance

Preparing for future bandwidth demands requires solutions that support evolving IEEE, IEC/ISO, and TIA standards, while remaining flexible as industry specifications continue to shape network speeds. Aginode solutions enable smooth migration from 25G and 100G to 200G, 400G, and 800G, helping enterprise and AI data centres scale their core and spine networks while maintaining interoperability and long-term compatibility.

Reliability

Reliability is essential in data centers, where downtime can have significant operational and financial consequences. Aginode solutions deliver consistent performance through robust design, low insertion loss, secure connectivity, high durability, and proven interoperability to ensure maximum uptime.



Aginode can help you to navigate your way through the technology roadmap.

Scalability

Scalability enables data centres to grow without costly infrastructure redesigns. Aginode solutions support seamless migration to higher bandwidths and greater port density, using modular architectures and high-density designs that maximize rack space while simplifying future upgrades.

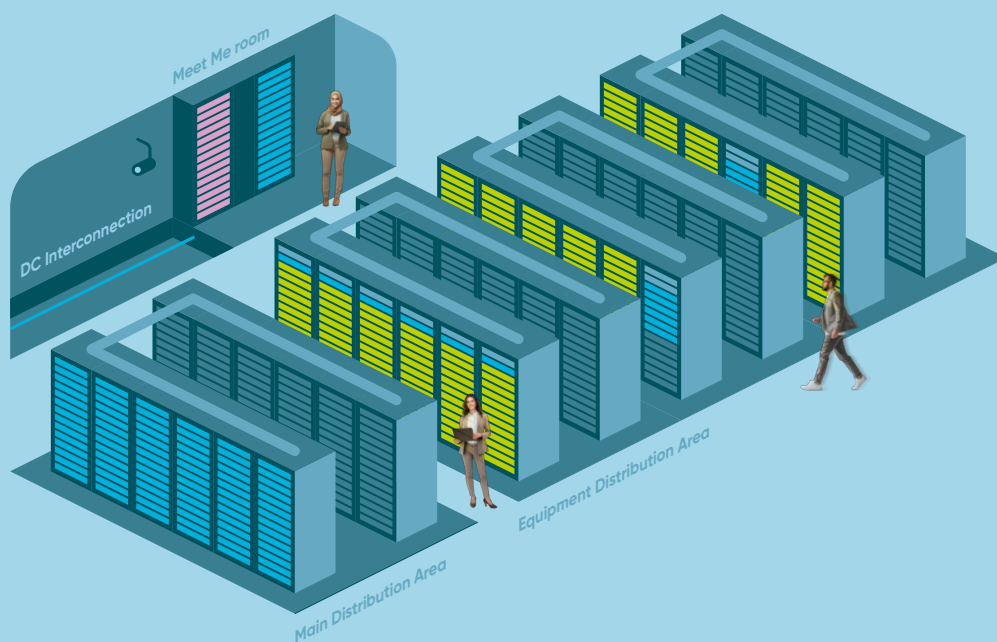
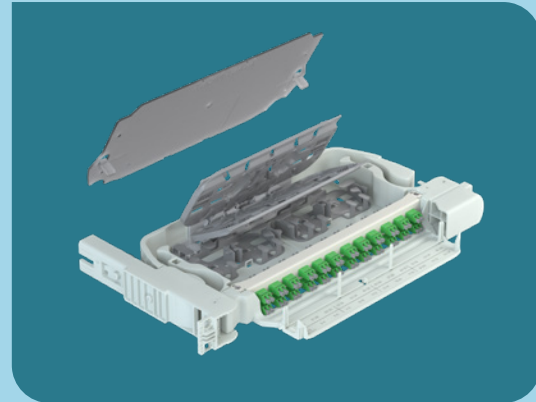
Cost-effectiveness

Cost-effectiveness goes beyond reducing upfront costs, it lowers the total cost of ownership throughout the data centre lifecycle. Aginode solutions enable fast, simple installation with pre-terminated cabling, include expert project support, and use future-ready architectures that support migration to higher network speeds without replacing existing infrastructure.

Trusted brands & solutions for data centres

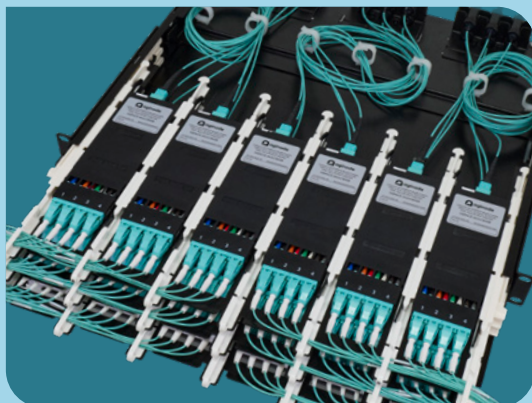
XPLORER™ OLT platform

A modular optical distribution platform designed to simplify fibre management meet me rooms.



DCmark™ ENSPACE patch panels

A fibre system specifically designed for high density and ultra-high density data centre applications.



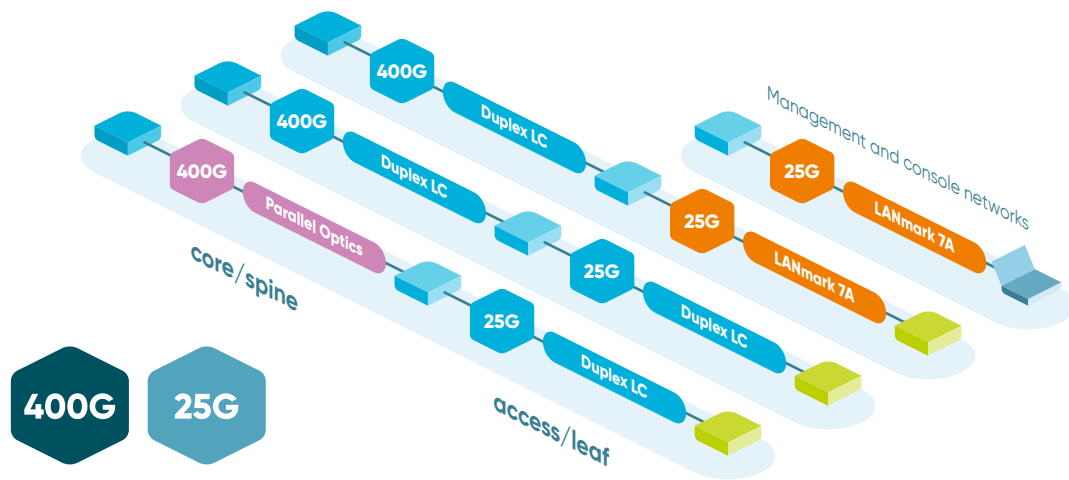
DCmark™ ENSPACE patching assemblies

Optimized for installation in data centres: small diameter, small bend radius and reduced weight



Migrate to 400G and 25G

More users, devices, and applications are increasing east-west traffic and driving 400G spine and 25G leaf upgrades. LC and parallel optics solutions with Base-12 cabling enable high-density, scalable connectivity.



Enterprise data centers. Evolving traffic patterns and gradual upgrades

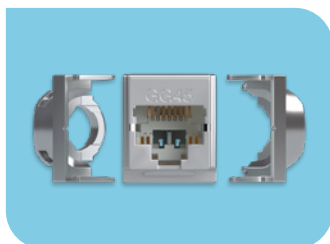
A growing mix of north-south traffic (user and application access) and east-west traffic (server-to-server communication) is driving higher bandwidth needs. Aginode solutions provide reliable, flexible infrastructure that supports frequent moves, adds, and changes while enabling a smooth migration to higher speeds such as 400G and 25G.



Multi-tenant data centers. Increase flexibility and rapid scalability

Shared environments with diverse customer requirements demand adaptable connectivity and faster provisioning. Aginode solutions deliver modular, high-density infrastructure that simplifies moves, adds, and changes while supporting multiple network architectures and scalable bandwidth from 100G to 400G and beyond.

10/25G copper solutions for Ethernet & High Power PoE.



DCmark™ ENSPACE Base12 patch panels

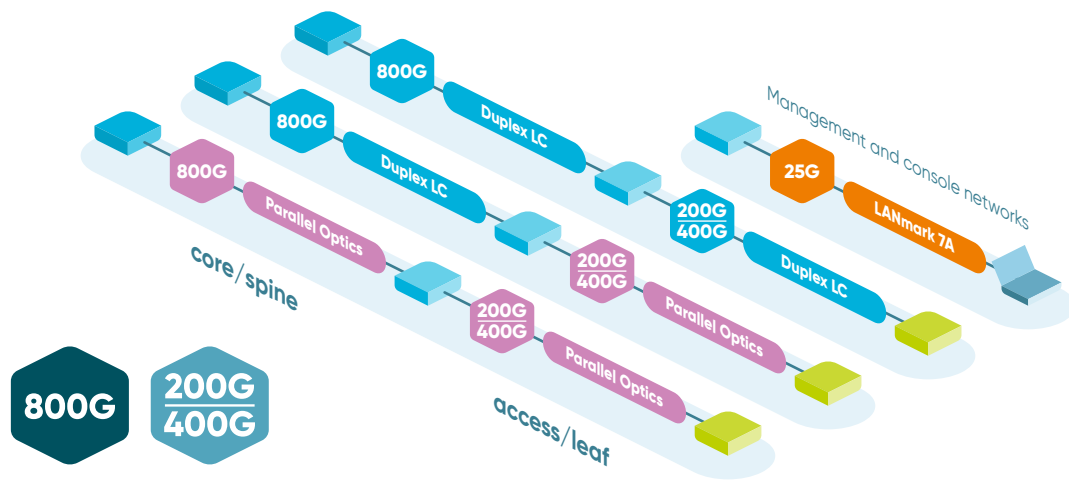


Multi-tenant data centre racks.



Migrate to 800G and 200/400G

AI workloads, driven by model training and inference, require massive east-west bandwidth and faster upgrades to 800G spine and 200G–400G leaf networks. Parallel optics and Base-8 cabling deliver the density, scalability, and fibre efficiency needed for 1.6T readiness.



AI data centers. Extreme bandwidth and accelerated evolution

AI workloads are dominated by massive east-west traffic between GPUs, storage, and compute resources, requiring ultra-high-density and low-latency connectivity. Aginode solutions enable rapid deployment and upgrade cycles to support 400G, 800G, and future higher-speed networks.

DCmark™ ENSPACE Base8 patch panels



Designed for regional requirements and applications

To address specific regional needs, including industry requirements and safety standards, some solutions are available only in selected markets. APAC-specific solutions are clearly identified in the table of contents and on the relevant product pages.

The table of contents also highlights the recommended applications for each solution. Throughout the catalogue, icons on the page edges indicate whether solutions are best suited for Enterprise, Multi-tenant, or AI data center environments.



DCmark™

Fibre solutions



**More
data**



**Less
space**



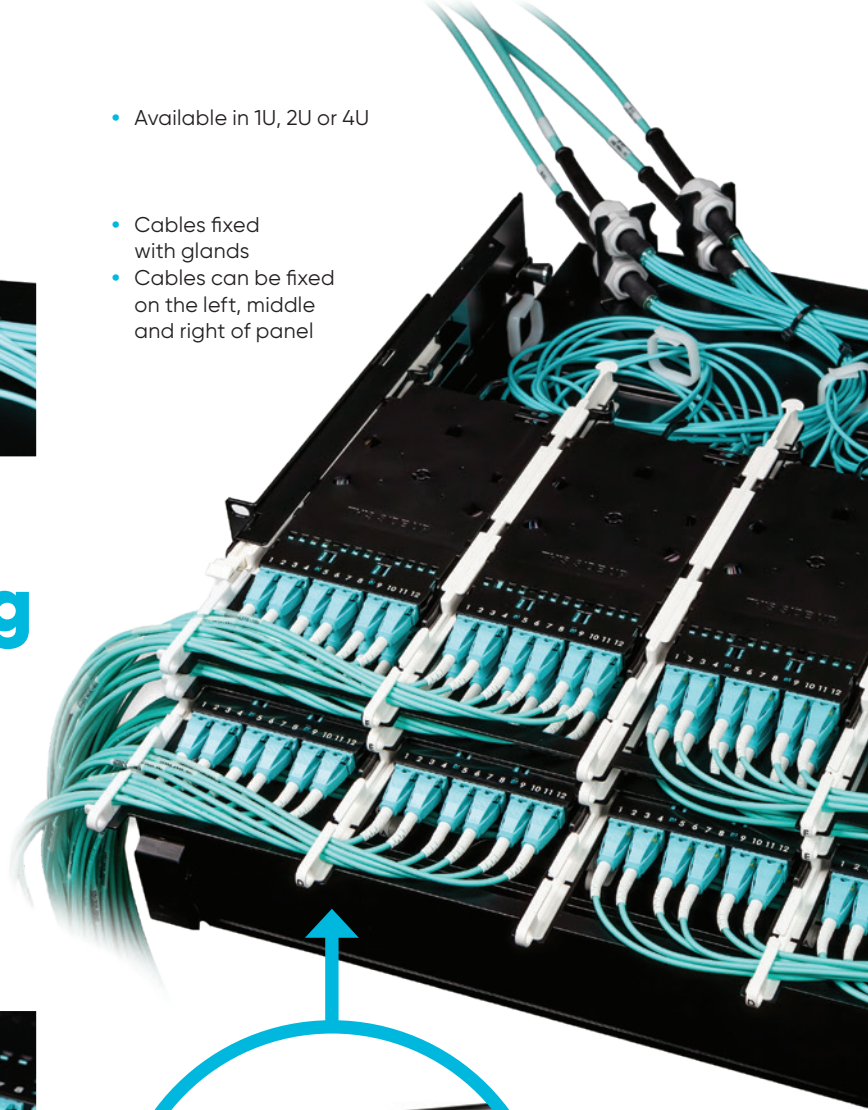


DCmark™ ENSPACE Base 12

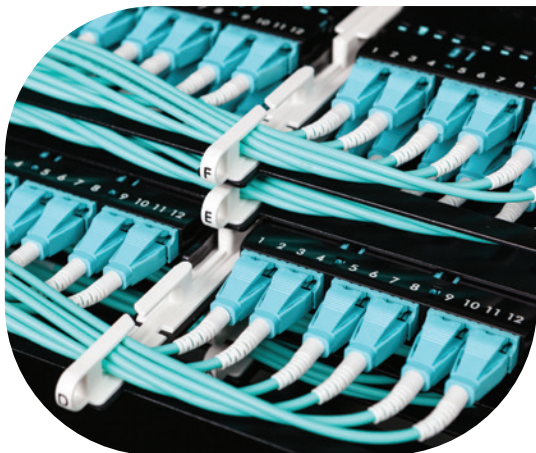


- Available in 1U, 2U or 4U

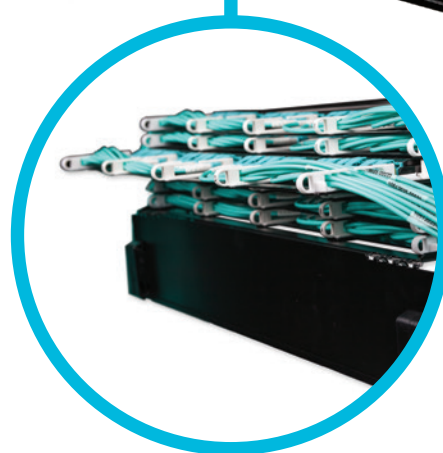
- Cables fixed with glands
- Cables can be fixed on the left, middle and right of panel



Easy patching and flexible scalability



- Fingertip access to patch cords
- Individual sliding tray with 4 modules
- Locking positions when installed, for patching and before removal



- Opens 180° even with panels below



Fibre



Copper



Racks



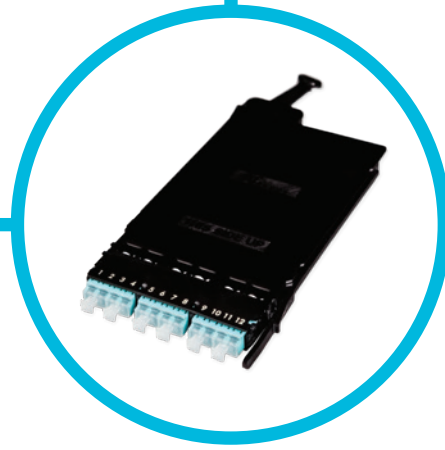
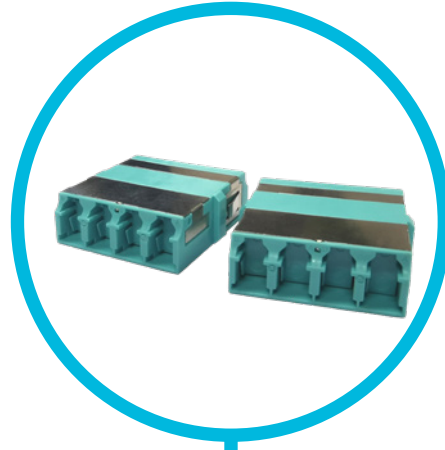
AIM



Support

- Sliding and tilting rear drawer

- Internal auto-shutter
- Improved eye safety



- Can be installed from front and rear
- 12x LC or 6x MPO



- Patch cord 2mm diameter
- Uniboot connector
- Bend Insensitive Fibre



- Integrated patch cord guide
- Side grips for easy tray removal



ENTERPRISE



MULTI-TENANT



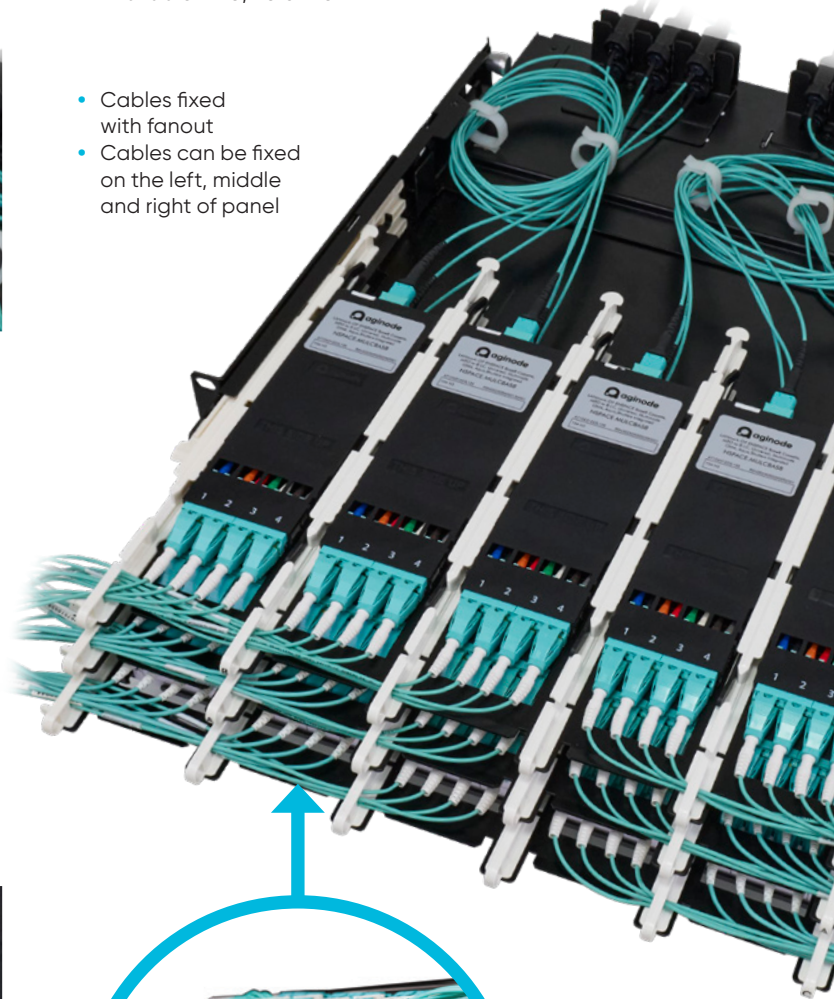
AI

DCmark™ ENSPACE Base 8

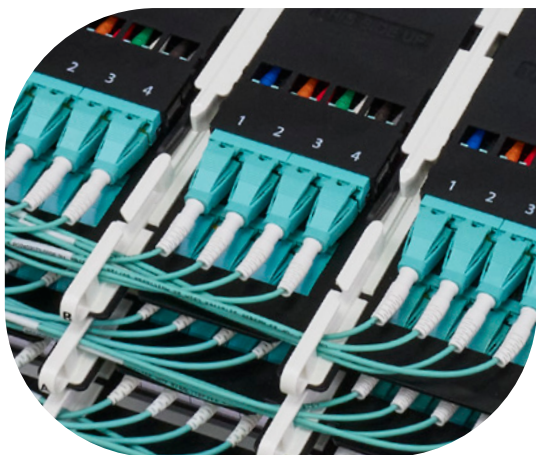


- Available in 1U, 2U or 4U

- Cables fixed with fanout
- Cables can be fixed on the left, middle and right of panel

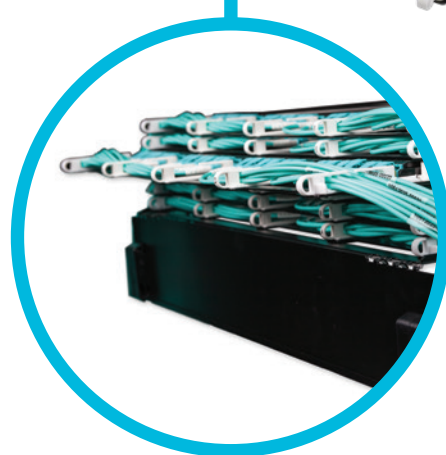


Easy patching and flexible scalability



- Fingertip access to patch cords
- Individual sliding tray with 6 modules
- Locking positions when installed, for patching and before removal

- Opens 180° even with panels below





Fibre



Copper



Racks



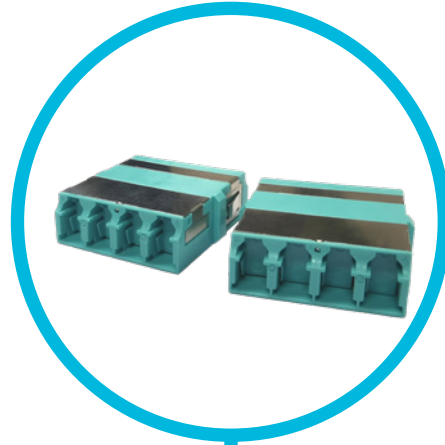
AIM



Support

- Sliding and tilting rear drawer

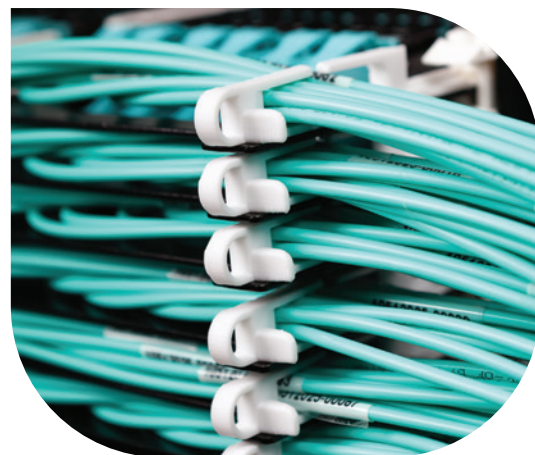
- Internal auto-shutter
- Improved eye safety



- Can be installed from front and rear
- 8xLC or MPO



- Patch cord 2mm diameter
- Uniboot connector
- Bend Insensitive Fibre



- Integrated patch cord guide
- Side grips for easy tray removal



DCmark™ ENSPACE BASE8 UHD Patch Panels

4HU, supporting 72 Base8 cassettes

- Optical patch panel with Ultra High Density: up to 576 LC or 288 MPO in 4U
- Up to 72 ENSPACE Base8 modules in 4U
- 12 individually sliding trays for maximum flexibility during operation and installation
- Patch cord management for each individual tray
- Labelling front for port identification
- Sliding and tilting tray at the rear of the panel for better access to cables during initial installation and additions
- Optimised for installation of ENSPACE Base8 Pre-Term with cable glands



Ultra
high
density



72
modules



576
LC



288
MPO

BASE 8



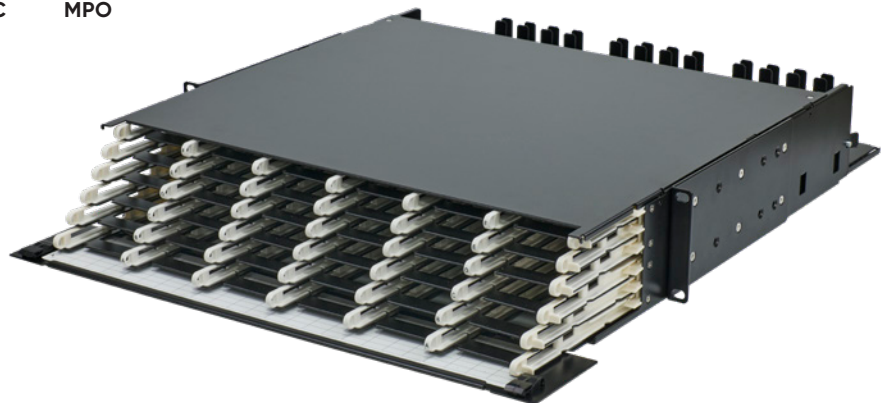
Reference	Description
NSPACE.PP1U8	LANmark-OF ENSPACE Base8 Ultra High Density Fibre Patch Panel, 1HU, Supporting 18 LANmark-OF ENSPACE Base8 Cassettes, Black
NSPACE.PP2U8	LANmark-OF ENSPACE Base8 Ultra High Density Fibre Patch Panel, 2HU, Supporting 36 LANmark-OF ENSPACE Base8 Cassettes, Black
NSPACE.PP4U8	LANmark-OF ENSPACE Base8 Ultra High Density Fibre Patch Panel, 4HU, Supporting 72 LANmark-OF ENSPACE Base8 Cassettes, Black

2HU, supporting 36 Base8 cassettes

- Optical patch panel with Ultra High Density: up to 288 LC or 144 MPO in 2U
- Up to 36 ENSPACE Base8 modules in 2U
- 6 individually sliding trays for maximum flexibility during operation and installation
- Patch cord management for each individual tray
- Labelling front for port identification
- Sliding and tilting tray at the rear of the panel for better access to cables during initial installation and additions
- Optimised for installation of ENSPACE Base8 Pre-Term with cable glands



BASE 8

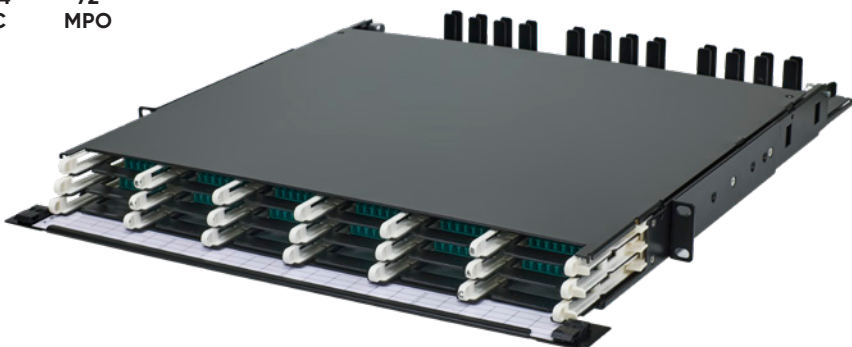


1HU, supporting 18 Base8 cassettes

- Optical patch panel with Ultra High Density: up to 144 LC or 72 MPO in a rack unit
- Up to 18 ENSPACE Base8 modules in 1U
- 3 individually sliding trays for maximum flexibility during operation and installation
- Patch cord management for each individual tray
- Labelling front for port identification
- Sliding and tilting tray at the rear of the panel for better access to cables during initial installation and additions
- Optimised for installation of ENSPACE Base8 Pre-Term with cable glands



BASE 8



DCmark™ ENSPACE BASE12 HD patch panels

- Optical patch panel with Ultra High Density: up to 144x LC or 72x MPO in a rack height unit
- Up to 12x ENSPACE modules in 1U height
- 3 individually sliding trays per 1U for maximum flexibility during operation and installation
- 3 different locking positions for trays: operational, patching and installation position
- Patch cord management for each individual tray
- Labelling front for port identification
- Labelling front opens almost 180°: Port identification visible even when the panel is high in rack
- Sliding and tilting tray at the rear of the panel for better access to cables during initial installation and additions
- Optimised for installation of LANmark-OF ENSPACE Pre-Term with cable glands



**Ultra
high
density**



**12
modules /
rack unit**



**144
LC**



**72
MPO**

BASE 12



Reference	Description	Height unit	Modules	DLC adaptors / 10G ports	MTP adaptors / 40G/100G ports
NSPACE.PP1U	LANmark-OF ENSPACE UHD Patch Panel 1U 12x Modules Black	1U	12	72	72
NSPACE.PP2U	LANmark-OF ENSPACE UHD Patch Panel 2U 24x Modules Black	2U	24	144	144
NSPACE.PP4U	LANmark-OF ENSPACE UHD Patch Panel 4U 48x Modules Black	4U	48	288	288

DCmark™ ENSPACE BASE12 HD patch panels

- Optical patch panel with High Density: up to 96x LC or 48x MPO in one rack height unit
- Up to 8x ENSPACE modules in 1U
- 2 fixed module rows, each with 4 slots for ENSPACE modules
- No sliding parts for assured reliability during maintenance
- Integrated Patch cord management for each module row
- Swinging front door that accommodates a slide-in label for port identification. Labelling front for port identification with label that could be slit in
- Labeled front door opens almost 180°: Port identification visible even when the panel is high in the rack
- Optimised for installation of LANmark-OF ENSPACE Pre-Term with cable glands



High density



8 modules / rack unit

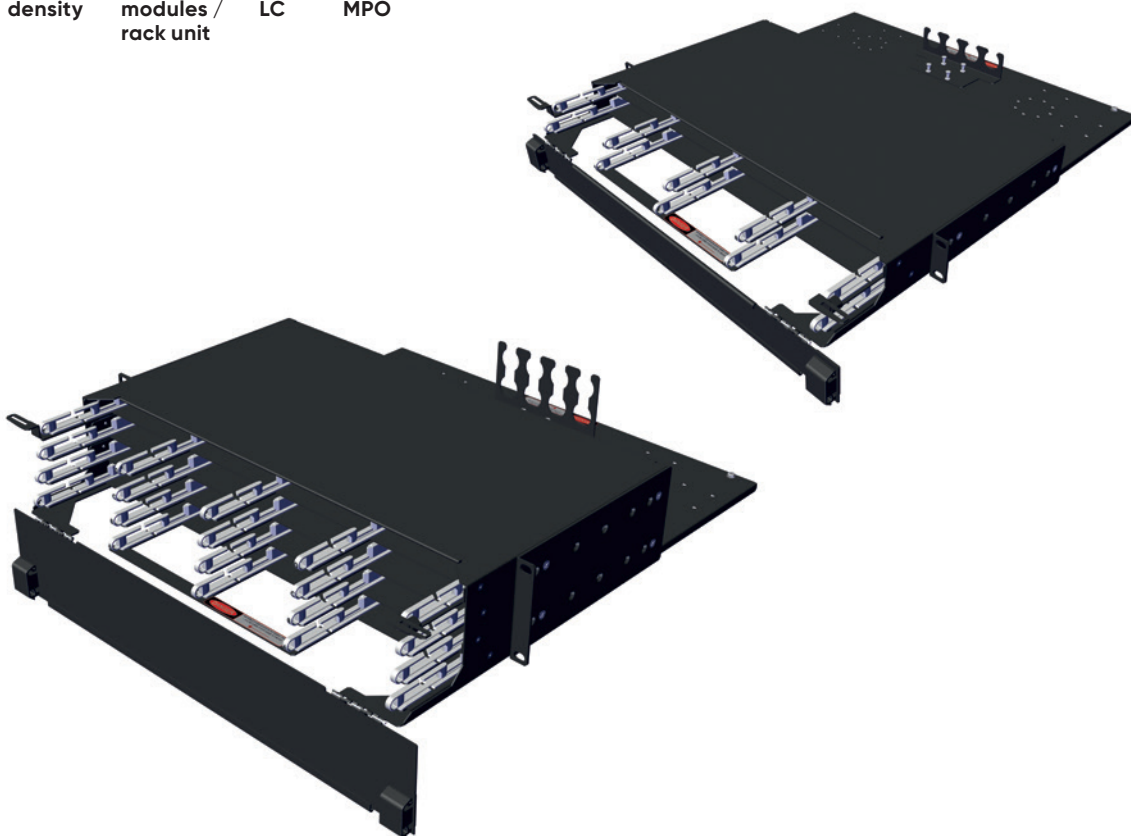


96 LC



48 MPO

BASE 12



Reference	Description	Height unit	Modules	DLC adaptors / 10G ports	MTP adaptors / 40G/100G ports
NSPACE.PPHD1U	LANmark-OF ENSPACE HD Patch Panel 1U 12x Modules Black 1U	1U	8	48	48
NSPACE.PPHD2U	LANmark-OF ENSPACE HD Patch Panel 2U 16x Modules Black 2U	2U	16	96	96



DCmark™ ENSPACE LC Adaptor Modules

- ENSPACE module with 12x LC adaptors in the front
- Module can be easily mounted into Aginode® ENSPACE patch panel
- Modules can be installed from front and rear of panel
- Innovative handle at rear facilitates removal and installation
- Integrated inner metal shutters
- Optimised for installation with ENSPACE LC/LC Pre-Term
- Integrated strip with color coding for quick fibre identification during installation
- Splice holders with heat shrink or Aluminum splice protectors are included as accessories



 **High density**

 **OM4**

 **OM5**

 **SM OS2**

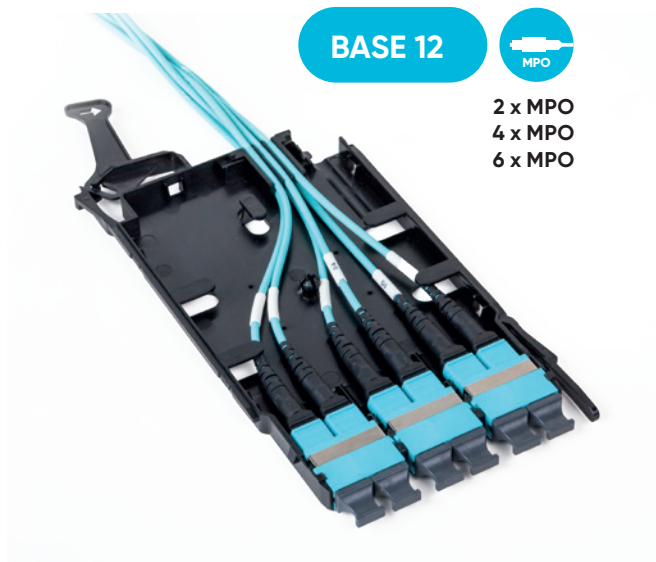


Reference	Description	Color adaptor	Fibre type
NSPACE.PLC12AS	LANmark-OF ENSPACE Adaptor Module 12 LC Multimode Aqua Shutters Integrated	Aqua	OM4
NSPACE.PLC12VS	LANmark-OF ENSPACE Adaptor Module 12 LC Multimode Violet Shutters Integrated	Violet	OM4
NSPACE.PLC12LS	LANmark-OF ENSPACE Adaptor Module 12 LC Multimode Lime Green Shutters Integrated LANmark-OF ENSPACE Adaptor Module 12 LC Singlemode Blue Shutters Integrated	Lime Green	OM5
NSPACE.PLC12BS	LANmark-OF ENSPACE Adaptor Module 12 LC Singlemode Blue Shutters Integrated	Blue	OS2
NSPACE.PLC12GS	LANmark-OF ENSPACE Adaptor Module 12 LC/APC Singlemode Green Shutters Integrated	Green	OS2

DCmark™ ENSPACE MPO Adaptor Modules

- ENSPACE module with MPO adaptors in the front for parallel optics
- Module can be easily mounted into Aginode' ENSPACE patch panel
- Modules can be installed from front and rear of panel
- Innovative handle at rear facilitates removal and installation
- Optimised for installation with ENSPACE MPO/MPO Pre-Term
- Key up/key down and key up/key up available
- Integrated strip for quick port identification during installation
- Available density: 4 x MPO

 **High density**
 **OM4
OM5
SM OS2**



BASE 12



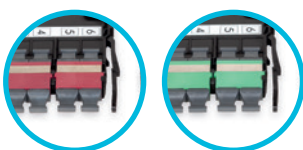
2 x MPO
4 x MPO
6 x MPO



BASE 8



4 x MPO



Reference	Description	Fibre type Category	Key orientation	MTP adaptors
NSPACE.PMPO6A	LANmark-OF ENSPACE Adaptor Module 6x MPO Multimode Key Up Key Down Aqua	adaptors	Up / Down	6
NSPACE.PMPO6V	LANmark-OF ENSPACE Adaptor Module 6x MPO Multimode Key Up Key Down Violet	OM4	Up / Down	6
NSPACE.PMPO6U	LANmark-OF ENSPACE Adaptor Module 6x MPO Multimode Key Up Key Up Grey	OM4	Up / Up	6
NSPACE.PMPO6G	LANmark-OF ENSPACE Adaptor Module 6x MPO Singlemode Key Up Key Down Green	SM	Up / Down	6
NSPACE.PMPOx8	LANmark-OF ENSPACE Adaptor Module Base 8 4xMPO	OM4 or OS2		



DCmark™ ENSPACE MPO-LC Adaptor Modules

- ENSPACE module with 12x LC or 8xLC adaptors in the front and 1 MPO adaptor in the rear
- Ultra low loss performance for multimode: 0,35 dB insertion loss per module
- Low low loss performance for singlemode: 0,5 dB insertion loss per module
- specially designed internal LC dust shutters that prevent contact with the ferrule
- Modules can be installed from front and rear of panel
- Innovative handle at rear facilitates removal and installation
- Modules available with universal polarity
- Unpinned/female MPO connector inside module
- ENSPACE modules are pre-installed and 100 % factory tested



- High density**
- OM4
OM5
SM OS2**
- Universal polarity**

Reference	Description	Color LC adaptor	Fibre type
NSPACE.MULC12AD	LANmark-OF ENSPACE Ultra Low Loss MPO-Module Universal 12 LC Multimode Aqua Dust Cover	Aqua	OM4
NSPACE.MULC12VD	LANmark-OF ENSPACE Ultra Low Loss MPO-Module Universal 12 LC Multimode Violet Dust Cover	Violet	OM4
NSPACE.MULC12LD	LANmark-OF ENSPACE Ultra Low Loss MPO-Module Universal 12 LC Multimode Lime Green Dust Cover	Lime Green	OM5
NSPACE.MULC12BD	LANmark-OF ENSPACE MPO-Module Universal 12 LC Singlemode Blue Dust Cover	Blue	SM OS2
NSPACE.MULC12GD	LANmark-OF ENSPACE MPO-Module Universal 12 LC/APC Singlemode Green Dust Cover	Green	SM OS2
NSPACE.MULC12AS	LANmark-OF ENSPACE Ultra Low Loss MPO-Module Universal 12 LC Multimode Aqua Dust Cover	Aqua	OM4
NSPACE.MULC12VD	LANmark-OF ENSPACE Ultra Low Loss MPO-Module Universal 12 LC Multimode Violet Dust Cover	Violet	OM4
NSPACE.MULC12LD	LANmark-OF ENSPACE Ultra Low Loss MPO-Module Universal 12 LC Multimode Lime Green Dust Cover	Lime Green	OM5
NSPACE.MULC12BD	LANmark-OF ENSPACE MPO-Module Universal 12 LC Singlemode Blue Dust Cover	Blue	SM OS2
NSPACE.MULC12GD	LANmark-OF ENSPACE MPO-Module Universal 12 LC/APC Singlemode Green Dust Cover	Green	SM OS2
NSPACE.MaLC8bc8	LANmark-OF ENSPACE Module Base 8 – 8xLC adapters		OM4 or OS2



Fibre



Copper



Racks



AIM



Support

DCmark™ Plug&Play Panel

- High density patch panel: up to 96 LC depending on module type
- Up to 4 Plug&Play adaptor plates
- Sliding and tilting patch panel for ease of installation, upgrade and maintenance
- Labelling front for port identification and patch cord management



High density



96



Installation with Plug&Play Adaptor Plates and LC/LC Pre-Terms

- Fibre organisers as accessory included for fibre management inside patch panel in 4 different loops
- High density: up to 96 LC



High density



96



ENTERPRISE



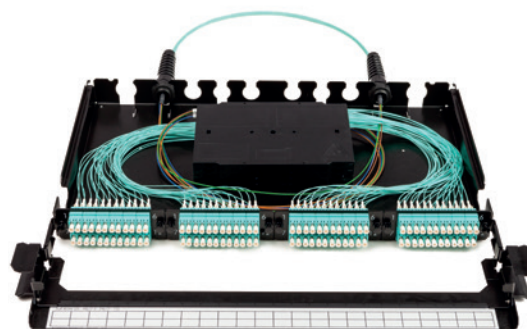
MULTI-TENANT



AI

Optimised for splicing with Plug&Play Adaptor Plates and Pigtails

- Up to 4 splice cassettes and 1 cover
- Large splice cassettes for improved fibre management inside cassettes
- Cassettes can be lifted and tilted
- Up to 48 fibres with heat shrink protectors and Tight Buffer pigtails
- Up to 96 fibres with heat shrink protectors and Maxistrip pigtails
- Up to 96 fibres with mechanical/ aluminum protection



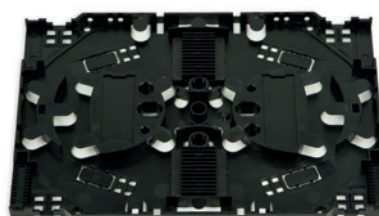
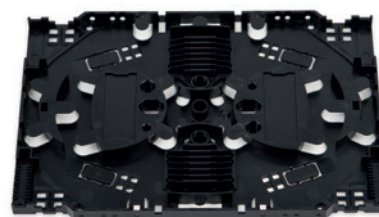
**High
density**

Splice Cassettes

- Splice cassettes for Plug&Play panels
- Large cassettes with inner and outer routing for fibres of pigtails and cables
- Cassettes for heat shrink protectors with 12 slots, 2 heat shrink protectors could be stacked in same slot
- Cassettes for Aluminum protectors with 2 x 12 slots
- Only one cover per patch panel



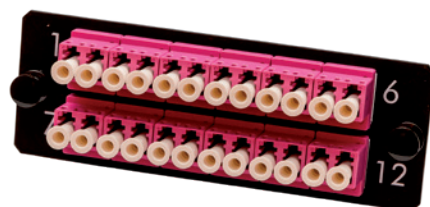
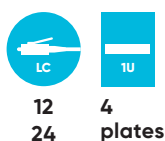
**High
density**



Reference	Description
N439.3MPP	LANmark-OF Plug&Play Patch Panel Integrated Cord Guide Sliding Black
N890.090	LANmark-OF Splice Cassette Heat Shrink Protectors
N890.091	LANmark-OF Splice Cassette Aluminum Protectors
N890.092	LANmark-OF Splice Cassette Cover

DCmark™ Plug&Play LC Adaptor Plates

- Adaptor plates for 6DLC or 12DLC
- Available in multimode, singlemode and singlemode APC
- Module can be easily mounted into Aginode's Plug&Play patch panel
- High density: 4 plates fit into 1U
- Can be used together with SC/LC Pre-Term or cables terminated with splicing



Reference	Description	Adaptor type	Fibre type	Density in 1U
N205.ALC12MMA	LANmark-OF Adaptor Plate 12 LC Multimode Aqua	LC	Multimode	48
N205.ALC24MMA	LANmark-OF Adaptor Plate 24 LC Multimode Aqua	LC	Multimode	96
N205.ALC12MMV	LANmark-OF Adaptor Plate 12 LC Multimode Violet	LC	Multimode	48
N205.ALC24MMV	LANmark-OF Adaptor Plate 24 LC Multimode Violet	LC	Multimode	96
N205.ALC12SMB	LANmark-OF Adaptor Plate 12 LC Singlemode Blue	LC	Monomode	48
N205.ALC24SMB	LANmark-OF Adaptor Plate 24 LC Singlemode Blue	LC	Monomode	96
N205.ALC12SAG	LANmark-OF Adaptor Plate 12 LC Singlemode APC Green	LC	SM/APC	48
N205.ALC24SAG	LANmark-OF Adaptor Plate 24 LC Singlemode APC Green	LC	SM/APC	96



DCmark™ Plug&Play MPO module

- Plug&Play modules with 12LC or 24LC universal wiring
- Up to 4 modules fit into 1U
- High density: up to 96LC within 1U
- Available with low loss LANmark-OF Plug&Play connectivity for multimode and singlemode
- Module can be easily mounted into LANmark Plug&Play patch panel from the front
- Plug&Play modules are pre-installed and 100 % factory tested
- Female MPO-connector inside module
- Compatible with LANmark-OF ENSPACE male MPO-MPO Universal Pre-Term



High density



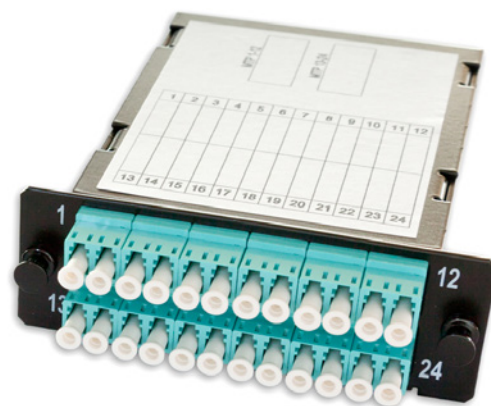
**12
24**



**4
modules**



**96
LC**



Reference	Description
N441.5L12LC0FU	LANmark-OF Plug&Play Low Loss module universal polarity 12 LC SM blue
N441.5L12LC4FU	LANmark-OF Plug&Play Low Loss module universal polarity 12 LC OM4 aqua
N441.5L24LC0FU	LANmark-OF Plug&Play Low Loss module universal polarity 24 LC SM blue
N441.5L24LC4FU	LANmark-OF Plug&Play Low Loss module universal polarity 24 LC OM4 aqua

DCmark™ ENSPACE Pre-Term cable

DCmark™ ENSPACE Pre-Term cable

- Cable Pre-Term based on advanced Micro-Bundle technology
- Slim high fibre count cable to allow a maximum of cables in cable trays
- Reduced weight in cable trays
- Bend insensitive fibre inside cables
- Short bend radius for ease of installation
- Flame (IEC 60332-1) and fire retardant (IEC 60332-3)
- LSZH jacket
- CPR level: Cca s1a,d1,a1

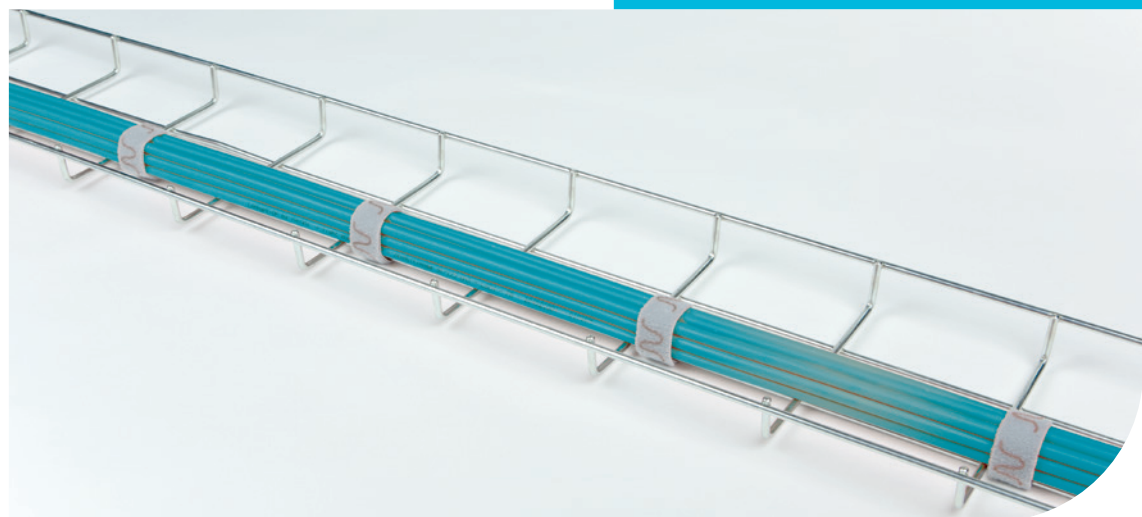


High cable density trays

	Diameter	Weight	Bend Radius operation	Bend Radius installation	Crush resistance	Max pulling force installation
12F	4.5mm	24 kg/km	45 mm	90 mm	1000 N/10 cm	300 N
24 F	7.0mm	54 kg/km	70 mm	140 mm	1000 N/10 cm	300 N
48 F	7.0mm	54 kg/km	70 mm	140 mm	1000 N/10 cm	300 N
96 F	9.5mm	102 kg/km	95 mm	190 mm	1000 N/10 cm	450 N

- Small diameter allows high number of cables
- Double or triple amount of cables compared to traditional solutions
- Space limitations in central patching zones reduced

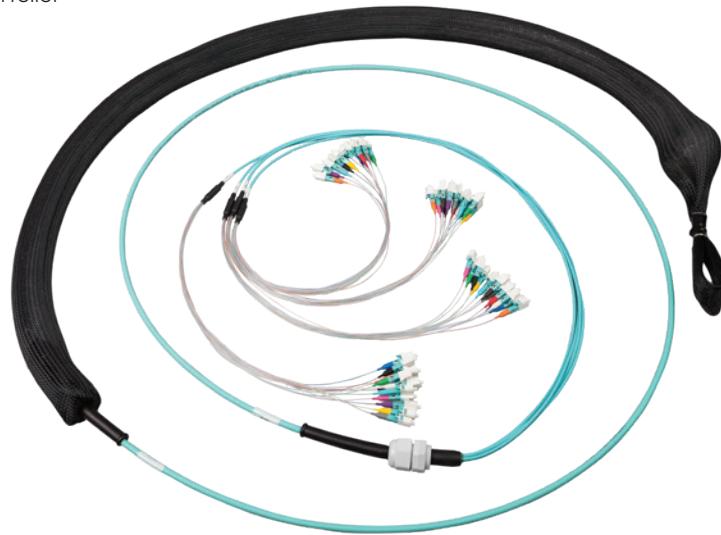
Max number of cable: 427 cables of 48 fibres in 500mx50mm= 20496 fibres





Pre-Term specification

- Black pulling protection net with bubble foam on one side
- Pulling eye one side
- Maximum pulling force on pulling eye: 300 N
- Protective bubble foam second on each side
- Cable gland with rubber boot for strain relief
- Small transition fan-out
- Made to order with 1m increments to reduce overlengths



Optical Performance

- Ultra low loss performance for multimode
- Low loss performance for singlemode
- Allows for more connections and longer length

Connection type	Max	Maximum Return Loss
LC multimode	0,25 dB	30 dB
LC singlemode	0,25 dB	40 dB
LC singlemode APC	0,25 dB	55 dB
MPO multimode	0,25 dB	20 dB
MPO singlemode APC	0,3 dB	45 dB

Packaging

- All Pre-Terms are on cardboard reels
- Volume reel can be reduced quickly: easy to dispose



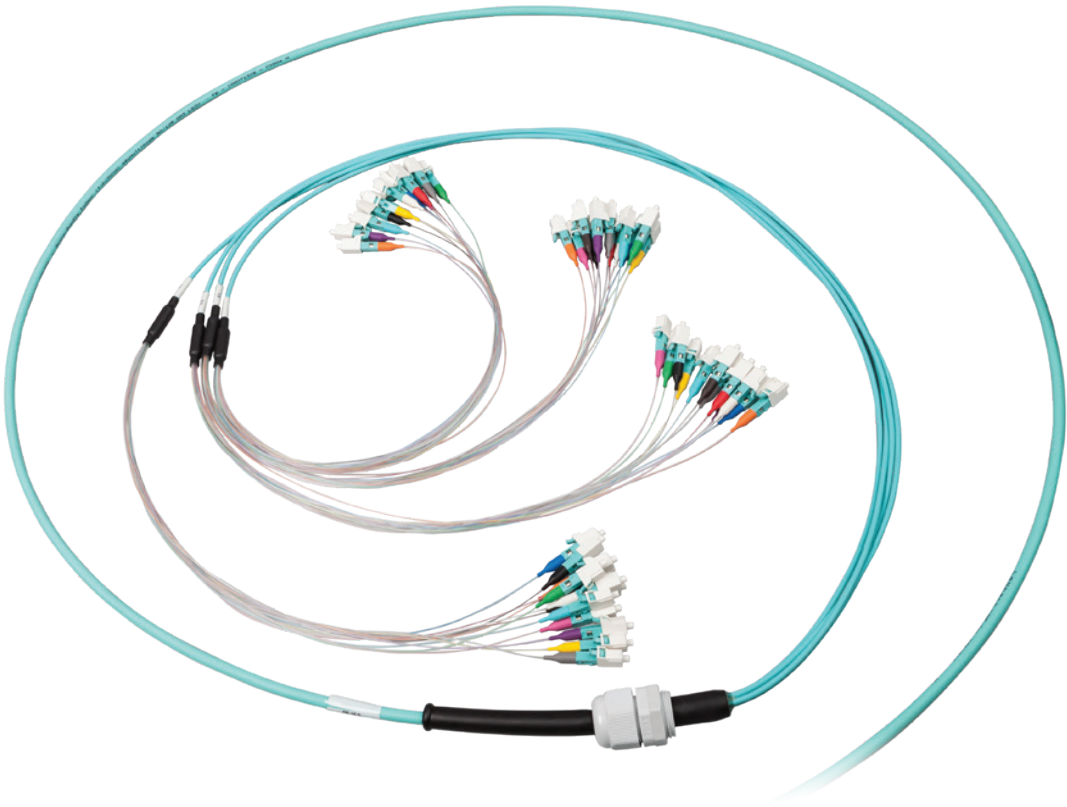
DCmark™ ENSPACE LC/LC Fibre Assembly

- Dual stage fan-out for installation inside the ENSPACE panel and inside the ENSPACE module
 - Pre-Term based on Micro-Bundle technology
 - Cable optimised for installation in Data Centres: small diameter, small bend radius and reduced weight
 - Superior fire performance: Euroclass Cca s1,d1,a1
- Fibres identified with coloured boots
 - Fibre pair flip to maintain transmit-receive polarity implemented in manufacturing
 - Low loss insertion loss performance: Max 0,25 dB per LC connection
 - Fibre count: 12x, 24x, 48x and 96x
 - Fibre type: OM4, OM5 and singlemode (OS2)

12
24
48
96

Cca

OM4
OM5
SM OS2



N15a.DnnnccExxx-eC: ENSPACE LC/LC Pre								
N15	a.	D	nnn	c	E	xxx	e	C
	Fibre type	ENSPACE LC/LC Pre-term	Fibre count	Connector type	Fan-out optimised for ENSPACE panel	length in m	Colour cable sheath	Fire performance class
4	Singlemode OS2		12	L LC connector			Y Yellow for Singlemode	Cca s1,d1,a1
7	Multimode OM4		24	P LC/APC connector			A Aqua pour OM4	
9	Multimode OM5		48				V Violet for OM4	
			96				L Lime Green for OM5	

DCmark™ ENSPACE MPO/MPO Fibre Assembly

- Fibre assembly for installation inside the ENSPACE and Plug&Play panel
- Cable optimized for installation in Data Centre: small diameter, small bend radius and reduced weight
- Superior fire performance: Euroclass C2ca s1,d1, a1
- Polarity method B for universal polarity
- Pre-Term can be used together with MPO-LC modules for LC connectivity or with MPO-adaptor modules for parallel optics
- Male-male/pinned-pinned Pre-Terms
- Low loss insertion loss performance: Max 0,25 dB per MPO connection for singlemode and multimode
- Fibre count: 12x, 24x, 48x and 96x
- Fibre type: OM4, OM5 and singlemode (OS2)



Universal Polarity

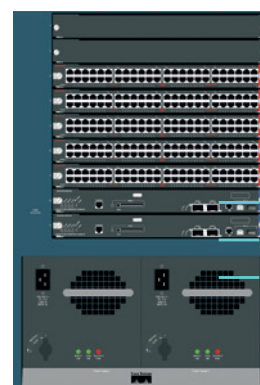
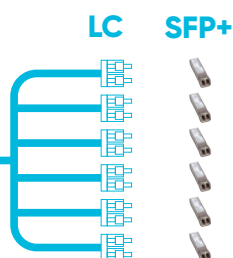
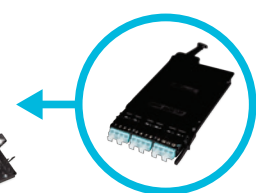


N15a.PnnnMMExxx-eC

N15	a.	P	B	nnn	c	MM	E	xxx	e	C
	Fibre type	polarity for MPO/MPO	polarity method B	fibre count	Connector type	male-male pre-term	Fan-out optimised for ENSPACE panel	length in m	colour cable sheath	Fire performance class
	4 Singlemode OS2			12	L LC connector				Y Yellow for singlemode OM4	B2ca by Cca (code eC)
	7 Multimode OM4			24	P LC/APC connector				A Aqua for OM4	
	9 Multimode OM5			48					V Violet for OM4	
				96					L Lime green for OM5	

DCmark™ ENSPACE Patching Assemblies

- High fibre count fibre assembly for connecting transceivers on switch and ENSPACE modules
- Switch side has a 2mm fan-out with uniboot DLC connector for connecting to SFP+ transceivers
- Panel side:
 - Dual stage 900 µm LC fan-out for installation inside the ENSPACE panel with the LC ENSPACE adaptor modules
 - Or male MPO-fan out for installation inside the ENSPACE panel with ENSPACE MPO-LC modules
- Micro-Bundle cable optimised for installation in Data Centre: small diameter, small bend radius and reduced weight
- Superior fire performance: Euroclass Cca s1,d1,a1
- Low loss insertion loss performance: max 0,25 dB per LC connection
- Fibre count: 12x, 24x, 48x and 96x
- Fibre type: OM4, OM5 and singlemode (OS2)

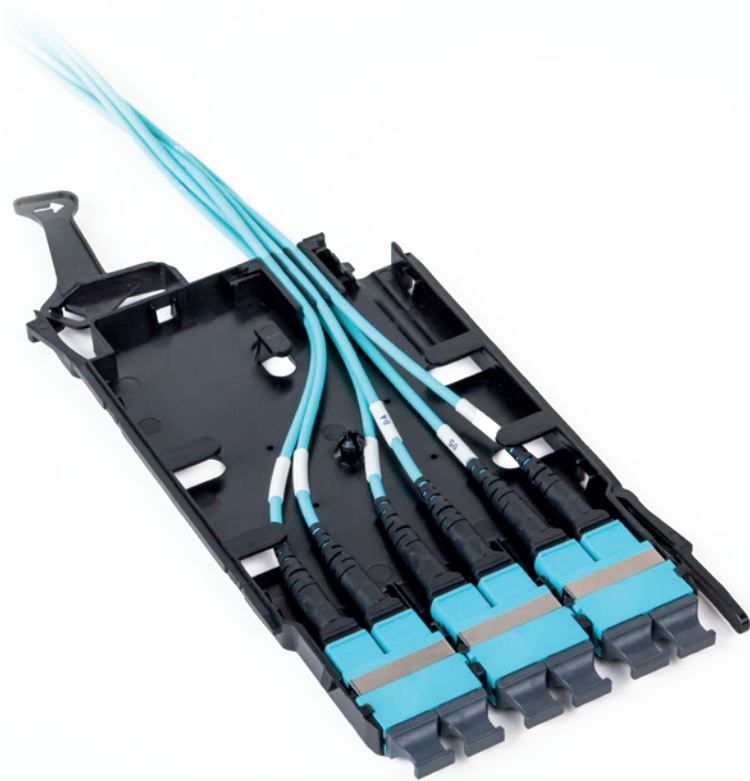


N15a.Snnbbccdxxx-C

N15	a.	S	nnn	bb	cc	d	xxx	e	C
	Fibre Type	Patching assembly ENSPACE	fibre count	uniboot LC connector on switch side (L2: LC-connector)	connector inside panel	fan-out length switch side	length in m	Colour cable sheath	Fire Performance class
	4 Singlemode OS2 7 Multimode OM4 9 Multimode OM5		12 24 48 96		L9 LC connector P9 LC/APC connector M3 male MPO connector	A: equal length 100cm B: equal length 150cm C: equal length 200cm		Y Yellow for Singlemode A Aqua for OM4 V Violet for OM4 L Lime Green OM5	C2ca s1,d1,a1



Universal polarity



Polarity with with MPO adaptors and MPO-MPO Pre-Terms for Parallel transmission

Parallel Transmission



Pre-Term MPO universal polarity



DCmark™ Slimflex Push-Pull LC-LC Fiber Patch Cords

- Optical fiber patch cords
- Boot PushPull design
- Polarity changeable connector
- Round cable design
- GIGAliteFLEX bend insensitive OM3 fibre
- For use in cabinets and workplaces



Reference	Description
N128D.4LLBYxxx	LANmark-OF Slimflex boot push-pull duplex patch cord LC-LC OS2 LSZH Yellow xx.xm
N128D.5LLBAxxx	LANmark-OF Slimflex boot push-pull duplex patch cord LC-LC OM3 LSZH Aqua xx.xm
N128D.7LLBVxxx	LANmark-OF Slimflex boot push-pull duplex patch cord LC-LC OM4 LSZH Violet xx.xm

DCmark™ Push-Pull MPO-MPO Patch Cords

- Aginode DCmark MPO patch cord adopts a slim cable design with OD of 3mm, this gives
- Datacenter user 19% more room in cable management in front of the panel
- The optical performance of Aginode MPO connector is better than industry level and can met
- international standards
- Available for Single Mode and bend insensitive OM3/OM4
- Straight polarity (Type B) according to TIA 568.3-E
- Female MPO connectors both end
- Boot Push-Pull design allowing for the connector to be easily plug and unplug from densely
- loaded panels without the need for special tools



OM4
SM OS2



Reference	Description
N128P.4F12LBYxxx	LANmark-OF MPO Patch Cord OS2 MethodB MPO12/APC Female - MPO12/APC Female Boot PUSH-PULL 12Core LSZH Yellow Low Loss xx.xm
N128P.5F12LBAxxx	LANmark-OF MPO Patch Cord OM3 MethodB MPO12 Female - MPO12 Female Boot PUSH-PULL 12Core LSZH Aqua Low Loss xx.xm
N128P.7F12LBVxxx	LANmark-OF MPO Patch Cord OM4 MethodB MPO12 Female - MPO12 Female Boot PUSH-PULL 12Core LSZH Violet Low Loss xx.xm
N128P.4F8LBYxxx	LANmark-OF MPO Patch Cord OS2 MethodB MPO8/APC Female - MPO8/APC Female Boot PUSH-PULL 8Core LSZH Yellow Low Loss xx.xm
N128P.5F8LBAxxx	LANmark-OF MPO Patch Cord OM3 MethodB MPO8 Female - MPO8 Female Boot PUSH-PULL 8Core LSZH Aqua Low Loss xx.xm
N128P.7F8LBVxxx	LANmark-OF MPO Patch Cord OM4 MethodB MPO8 Female - MPO8 Female Boot PUSH-PULL 8Core LSZH Violet Low Loss xx.xm





Fibre



Copper



Racks



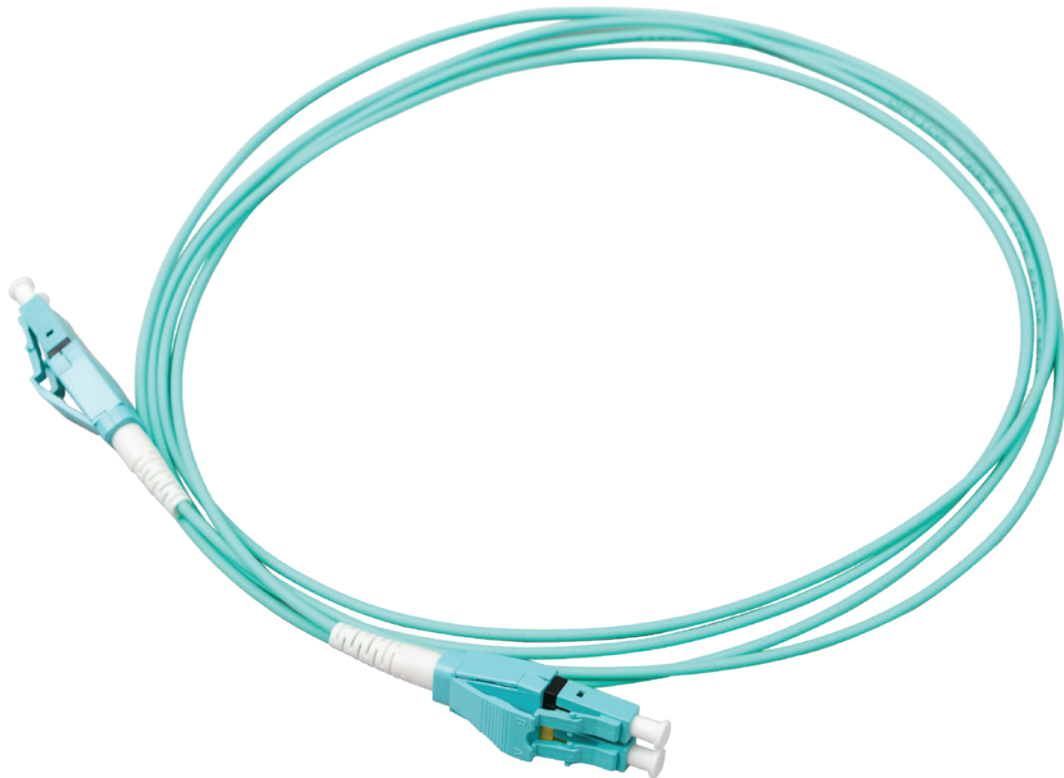
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Support

DCmark™ ENSPACE LC-LC Patch cords

- Uniboot style duplex LC connectors
- Slim 2mm round patch cord cable to reduce required space in dense patching zones
- Improved handling in high-density applications
- Low-loss connectivity enables system design flexibility
- Bend radius reduced to 10 mm with GIGAliteFlex bend insensitive fibre
- Designed to withstand tight bends and challenging cable routes
- Low-smoke and zero-halogen (LSZH)
- Flame retardant
- Reverse polarity uniboot connector



Reference

Description

N122.7UUAx	LANmark-OF ENSPACE Patch Cord DLC-DLC OM4 LSZH xm Aqua
N122.7UUVx	LANmark-OF ENSPACE Patch Cord DLC-DLC OM4 LSZH xm Violet
N122.9UULx	LANmark-OF ENSPACE Patch Cord DLC-DLC OM5 LSZH xm Lime Green
N122.4UUYx	LANmark-OF ENSPACE Patch Cord DLC-DLC Singlemode LSZH xm Yellow

DCmark™ ENSPACE MPO-MPO Patch cords

- MPO-MPO patch cords
- MPO PRO connectors for easy gender and polarity change
- Slim round patch cable with 2,5 mm diameter
- Small bend radius of 40mm
- Female-Female patch cord to fit with male MPO connector of MPO Pre-Term or male QSFP+ connector
- Available in OM4 and SM
- Low loss performance: 0,25 dB/MPO connection, typical insertion loss 0,125 dB/MPO connection
- Straight wiring with key up/key up design
- Parallel Optics: 40GBase-SR4 and 100GBase-SR10
- Low-smoke and zero-halogen (LSZH)



OM4
SM OS2



Reference	Description
N125.7GGAx	LANmark-OF Patch Cord Female MPO PRO – Female MPO PRO OM4 LSZH xm Aqua
N125.7GGVx	LANmark-OF Patch Cord Female MPO PRO – Female MPO PRO OM4 LSZH xm Violet
N125.4GGYx	LANmark-OF Patch Cord Female MPO PRO – Female MPO PRO SM LSZH xm Yellow



DCmark™ MTP PRO Tools and Accessories

- Field tool for MTP PRO connectors to change polarity and gender
- Gender change can be done without opening the connector
- PIN exchangers are required for gender change
- No accessory required for polarity change: keys already included in MTP PRO connector
- Polarity can be changed from key down to key up and key up to key down



- Sample box to demonstrate MTP PRO connectivity for easy changing gender and polarity in the field
- Sample tool box includes
- LANmark-OF MTP PRO gender and Polarity Field Tool
- LANmark-OF MTP PRO Pin Exchanger Female Multimode Aqua 10X
- LANmark-OF MTP PRO Pin Exchanger Male Singlemode Yellow 10X
- LANmark-OF MPO Cleaning Tool
- MTP-MTP patch cord sample



- MTP PRO multimode pin exchangers to change gender from female to male
- The pin exchangers provide the pins to make the female MTP PRO connector male
- One tube contains 10 exchangers

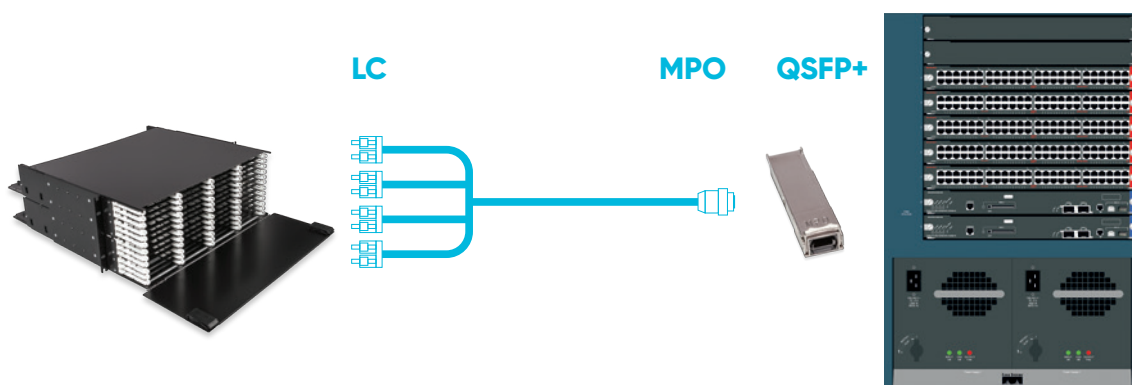


Reference Description

N890.160 LANmark-OF MTP PRO Sample Box

DCmark™ Aggregation Assembly

- Factory terminated fibre assembly
- Female MPO towards 4x uniboot DLC connectors
- Female MPO connector for connecting to QSFP+ transceiver on switch
- Uniboot DLC connectors for patching on front of patch panel
- 8 cores
- Aggregation of 4X 10G channels into 1x 40G port on switch
- Fibre type: OM4
- Low loss connectivity performance: Max of 0,3 dB per connection



N127.aFbdex

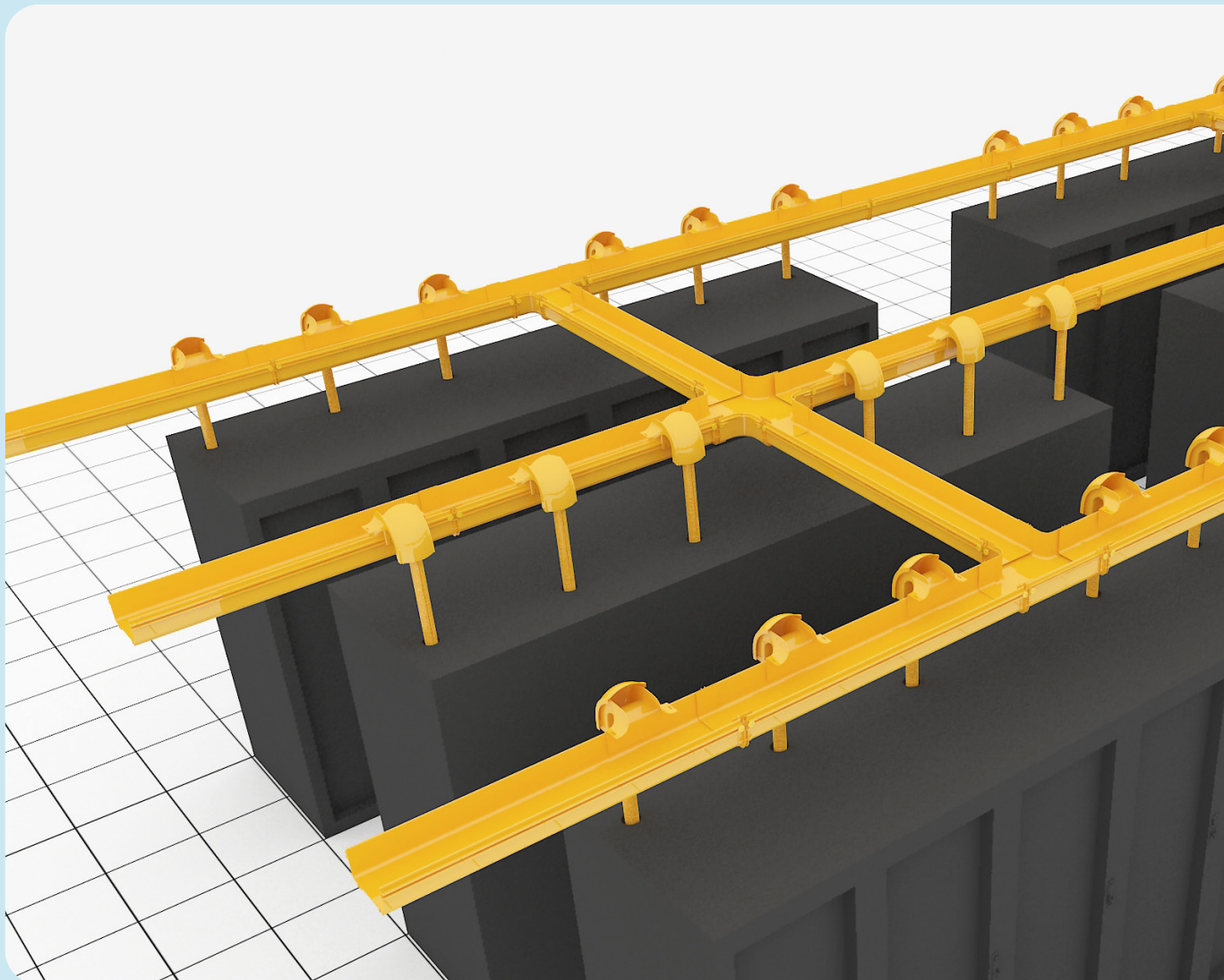
N127	a.	F	b	d	e	x
	fibre type	female MPO connector for insertion in QSFP+ transceiver	fan-out length patch panel	fan-out length patch panel	Colour cable sheath	Length in m
	7 Multimode OM4		L DLC connector P DCL/APC connector	A: equal length 100cm B: equal length 150cm C: equal length 200cm	A Aqua for OM4 V Violet for OM4	C2ca sl,d1,a1

FIBREROUTE

APAC ONLY

FIBREROUTE provides a dedicated, rigid fibre optic pathway. It protects cables and links and helps maintain high-speed transmission. Adaptors which connect channels and fittings control the bend radius of fibre cables and MPO trunks. Moves, Adds & Changes are easy, as fibre cables are separated from larger horizontal copper bundles. Expansion and interconnection with channels of different sizes can also be executed quickly.

- **Easy access**
Enables Moves, Adds & Changes
- **End-to-end protection**
Cables protected from damage throughout
- **Robust**
Manufactured from tough plastic
- **Easy to handle**
Lightweight for easy transport and installation
- **No sharp edges**
No danger of damaging cables on cut metal edges
- **Managed bend radii**
Cable bend radius maintained throughout
- **Covers**
Keep out dirt and dust
- **Adaptors**
Compatible with other fibre trunking systems





Fibre



Copper



Racks



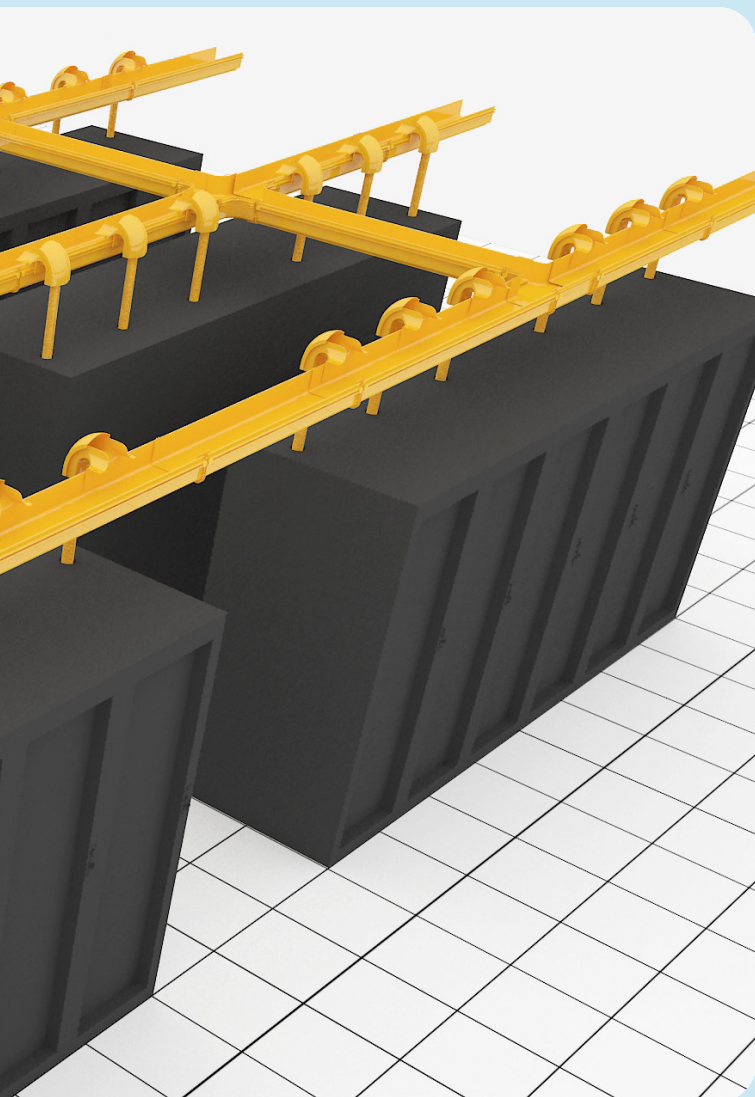
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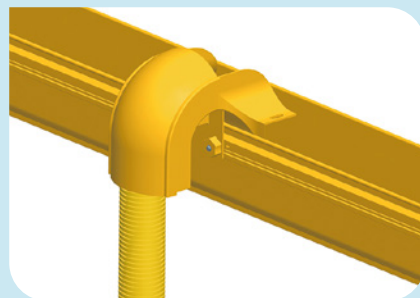
Support

Fibre protection for high density data centres

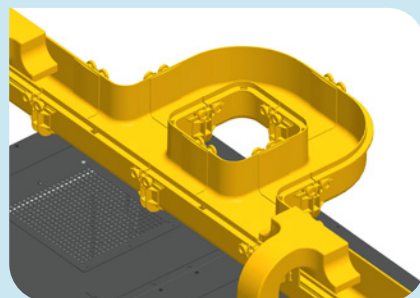
- 1 Waterfalls and vertical T joints for safe rack transitions
- 2 Practical overlength storage and management
- 3 Easy to connect different systems and sizes
- 4 Mounting option: Rack
- 5 Mounting option: Suspended



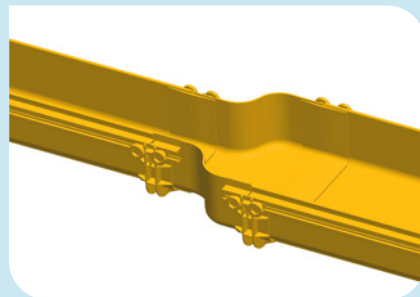
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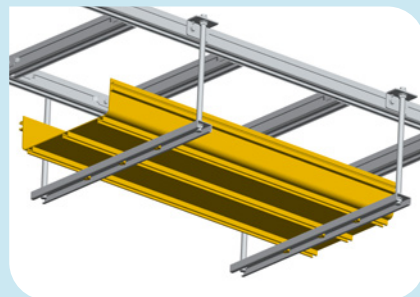
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3



4



5





Fibre



Copper



Racks



AIM



Support

APAC ONLY

120 & 240 Systems

**N350.120FC00P** FIBREROUTE 120mm Channel**N350.120FC10P** FIBREROUTE 120mm Channel Cover**N350.240FC00P** FIBREROUTE 240mm Channel**N350.240FC10P** FIBREROUTE 240mm Channel Cover**N350.120FA01A** FIBREROUTE 120mm Elbow**N350.120FA11A** FIBREROUTE 120mm Elbow Cover**N350.240FA01A** FIBREROUTE 240mm Elbow**N350.240FA11A** FIBREROUTE 240mm Elbow Cover**N350.120FA02A** FIBREROUTE 120mm Equal Tee**N350.120FA12A** FIBREROUTE 120mm Equal Tee Cover**N350.240FA02A** FIBREROUTE 240mm Equal Tee**N350.240FA12A** FIBREROUTE 240mm Equal Tee Cover**N350.120FA03A** FIBREROUTE 120mm Equal Cross**N350.120FA13A** FIBREROUTE 120mm Equal Cross Cover**N350.240FA03A** FIBREROUTE 240mm Equal Cross**N350.240FA13A** FIBREROUTE 240mm Equal Cross Cover**N350.120FA21A** FIBREROUTE 120mm 45° Vertical Internal Bend**N350.120FA31A** FIBREROUTE 120mm 45° Vertical Internal Bend Cover**N350.240FA21A** FIBREROUTE 240mm 45° Vertical Internal Bend**N350.240FA31A** FIBREROUTE 240mm 45° Vertical Internal Bend Cover**N350.120FA22A** FIBREROUTE 120mm 45° Vertical External Bend**N350.120FA32A** FIBREROUTE 120mm 45° Vertical External Bend Cover**N350.240FA22A** FIBREROUTE 240mm 45° Vertical External Bend**N350.240FA32A** FIBREROUTE 240mm 45° Vertical External Bend Cover**N350.120FC01A** FIBREROUTE 120mm In-line Connector**N350.240FC01A** FIBREROUTE 240mm In-line Connector**N350.120FC02A** FIBREROUTE 120mm Trumpet**N350.120FC03A** FIBREROUTE 120mm End-cap**N350.240FC03A** FIBREROUTE 240mm End-cap

Reducers and Adapters

	N350.003SD01A	FIBREROUTE Waterfall Assembly 90mm
	N350.003SD02A	FIBREROUTE Waterfall Assembly 130mm
	N350.003SD10A	FIBREROUTE Waterfall Flexible tube, 50mm, 0.8M
	N350.240FT01A	FIBREROUTE 240mm-120mm Reducer
	N350.240FT11A	FIBREROUTE 240mm-120mm Reducer Cover
	N350.240FT21A	FIBREROUTE 240mm-120mm Vertical Unequal Tee
	N350.240FT41A	FIBREROUTE 240mm-120mm Tee reducer
	N350.240FT51A	FIBREROUTE 240mm-120mm Tee reducer Cover
	N350.240FT61A	FIBREROUTE 240mm-120mm Unequal Cross
	N350.240FT71A	FIBREROUTE 240mm-120mm Unequal Cross Cover
	N350.240FA04A	FIBREROUTE 240mm Universal Transition
	N350.120FA04A	FIBREROUTE 120mm Universal Transition

Mounting Hardware & Accessories

	N350.003SMC1	FIBREROUTE 120mm Cable Tray Mounting Kit
	N350.003SMC2	FIBREROUTE 240mm Cable Tray Mounting Kit
	N350.003SMR1	FIBREROUTE 120mm Cabinet/Rack Mounting Kit
	N350.003SMR2	FIBREROUTE 240mm Cabinet/Rack Mounting Kit
	N350.003SMB1	FIBREROUTE 120mm Mounting Bottom Bar Kit
	N350.003SMB2	FIBREROUTE 240mm Mounting Bottom Bar Kit
	N350.003SS00S	FIBREROUTE Screw Kit T Type x100
	N350.003SS01S	FIBREROUTE Screw Kit Round Type x100

Design Software

FIBREROUTE PLANNER



Guaranteed distances

Guaranteed distances: LANmark-OF OM4

Products

LANmark-OF OM4 cables terminated with LC/SC connectors or pigtails
LANmark-OF OM4 LC/SC Pre-Terms

Ethernet distances

Applications	Pre-Terminated ST/SC/LC Assemblies			Direct termination or splicing with ST/SC/LC		
	2	4	6	2	4	6
1GBase-SX	970m	960m	940m	930m	880m	820m
10GBase-SR	550m	540m	530m	520m	490m	460m
25GBase-SR	120m	110m	105m	110m	90m	70m
40G BiDi	175m	150m	130m	140m	NA	NA
40G SWDM	350m	350m	350m	350m	NA	NA
100G BiDi	100m	100m	100m	100m	NA	NA
100G SWDM	100m	100m	100m	100m	NA	NA

Fibre Channel Distances

Applications	Pre-Terminated ST/SC/LC Assemblies			Direct termination or splicing with ST/SC/LC		
	2	4	6	2	4	6
1GFC (PI-4 100-M5F-SN-I)	1250m	1230m	1200m	1140m	1000m	800m
2GFC (PI-4 200-M5F-SN-I)	750m	740m	720m	680m	560m	460m
4GFC (PI-5 400-M5F-SN-I)	500m	475m	450m	470m	420m	370m
8GFC (PI-5 800-M5F-SN-I)	250m	230m	220m	220m	190m	130m
16GFC (PI-5 1600-M5F-SN-I)	170m	150m	145m	150m	125m	60m
32GFC (PI-6 3200-5MF-SN-I)	125m	115m	110m	110m	95m	65m



Fibre



Copper



Racks



AIM



Support

Guaranteed distances: LANmark-OF OM4 MPO

Products

LANmark-OF OM4 ultra low loss MPO-MPO Pre-Term Assemblies

LANmark-OF OM4 ultra low loss MPO-LC module

Ethernet distances-duplex transmission

MPO-LC modules	2	4	6
1GBase-SX	930m	910m	890m
10GBase-SR	520m	510m	500m
25GBase-SR	115m	105m	100m
40G BiDi	165	120	110
40G SWDM	350m	350m	350m
100G BiDi	100m	100m	100m
100G SWDM	100m	100m	100m

Ethernet distances-parallel transmission

MPO connections	2	4	6
40GBase-SR4	175	150	130
40GBase-SR4 extended distances*	400m	360m	330m
100GBase-SR4	120m	110m	105m

* Aginode approved transceivers

Fibre Channel Distances-duplex transmission

MPO-LC modules	2	4	6
1GFC (PI-4 100-M5F-SN-I)	1150m	1120m	1050m
2GFC (PI-4 200-M5F-SN-I)	680m	660m	620m
4GFC (PI-5 400-M5F-SN-I)	480m	420m	410m
8GFC (PI-5 800-M5F-SN-I)	240m	205m	190m
16GFC (PI-5 1600-M5F-SN-I)	160m	135m	130m
32GFC (PI-6 3200-5MF-SN-I)	120m	105m	100m

Guaranteed distances: LANmark-OF OM5

Products

LANmark-OF OM5 cables terminated with LC/SC connectors or pigtails
LANmark-OF OM5 LC/SC Pre-Terms

Ethernet distances

Applications	Pre-Terminated ST/SC/LC Assemblies			Direct termination or splicing with ST/SC/LC		
	2	4	6	2	4	6
1GBase-SX	970m	960m	940m	930m	880m	820m
10GBase-SR	550m	540m	530m	520m	490m	460m
25GBase-SR	120m	110m	105m	110m	90m	70m
40G BiDi	175m	150m	130m	140m	NA	NA
40G SWDM	440m	440m	440m	440m	NA	NA
100G BiDi	100m	100m	100m	100m	NA	NA
100G SWDM	150m	150m	150m	150m	NA	NA

Fibre Channel Distances

Applications	Pre-Terminated ST/SC/LC Assemblies			Direct termination or splicing with ST/SC/LC		
	2	4	6	2	4	6
1GFC (PI-4 100-M5F-SN-I)	1250m	1230m	1200m	1140m	1000m	800m
2GFC (PI-4 200-M5F-SN-I)	750m	740m	720m	680m	560m	460m
4GFC (PI-5 400-M5F-SN-I)	500m	475m	450m	470m	420m	370m
8GFC (PI-5 800-M5F-SN-I)	250m	230m	220m	220m	190m	130m
16GFC (PI-5 1600-M5F-SN-I)	170m	150m	145m	150m	125m	60m
32GFC (PI-6 3200-5MF-SN-I)	125m	115m	110m	110m	95m	65m



Guaranteed distances: LANmark-OF OM5 MPO

Products

LANmark-OF OM5 ultra low loss MPO-MPO Pre-Term Assemblies
LANmark-OF OM5 ultra low loss MPO-LC module

Ethernet distances-duplex transmission

MPO-LC modules	2	4	6
1GBase-SX	930m	910m	890m
10GBase-SR	520m	510m	500m
25GBase-SR	115m	105m	100m
40G BiDi	165m	120m	110m
40G SWDM	440m	440m	440m
100G BiDi	100m	100m	100m
100G SWDM	150m	150m	150m

Ethernet distances-parallel transmission

MPO connections	2	4	6
40GBase-SR4	175	150	130
40GBase-SR4 extended distances*	400m	360m	330m
100GBase-SR4	120m	110m	105m

Fibre Channel Distances-duplex transmission

MPO-LC modules	2	4	6
1GFC (PI-4 100-M5F-SN-I)	1150m	1120m	1050m
2GFC (PI-4 200-M5F-SN-I)	680m	660m	620m
4GFC (PI-5 400-M5F-SN-I)	480m	420m	410m
8GFC (PI-5 800-M5F-SN-I)	240m	205m	190m
16GFC (PI-5 1600-M5F-SN-I)	160m	135m	130m
32GFC (PI-6 3200-5MF-SN-I)	120m	105m	100m

Guaranteed distances: LANmark-OF SM

Products

LANmark-OF SM cables terminated with LC/SC connectors or pigtails
LANmark-OF SM LC/SC Pre-Terms

LANmark-OF SM / Direct Termination, Splicing and Pre-Terminated*

Applications	2 connections	3 connections	4 connections	5 connections	6 connections
100 Base-SX	2000	-	-	-	-
1GBase-LX	5000	4900	4500	4000	3500
10GBase-LR	10 000	9000	7500	6000	4500
10GBase-LW	10 000	9000	7500	6000	4500
10GBase-LX4	10 000	8500	6750	5250	3500
4Gbit-FC (PI-5 400-SM-LC-L)	10 000	10 000	7500	6000	4000
8Gbit-FC (PI-5 800-SM-LC-L)	10 000	10 000	7500	6000	4000
10GBase-FC (1200-SM-LL-L)	10 000	9000	7500	6000	4500
10GBase-FC (1200-SM-LC4-L)	10 000	8500	6750	5250	3500
16Gbit-FC (PI-5 1600-SM-LC-L)	10 000	10 000	7500	6000	4000
40Gbase-LR4	10 000	10 000	9000	7000	5000
100Gbase-LR4	10 000	10 000	8000	6000	4000

* with one splice every 2 km between 2 connections if required.

Guaranteed distances: LANmark-OF SM MPO

Products

LANmark-OF SM low loss MPO-MPO Pre-Term Assemblies
LANmark-OF SM low loss MPO-LC module

LANmark-OF SM /MPO low loss connectivity*

Applications	2 MPO modules	3 MPO modules	4 MPO modules	5 MPO modules
1GBase-LX	5000	3000	-	-
10GBase-LR	9000	7000	2500	-
4Gbit-FC (PI-5 400-SM-LC-L)	10 000	10 000	6000	3000
8Gbit-FC (PI-5 800-SM-LC-L)	10 000	8000	6000	3000
16Gbit-FC (PI-5 1600-SM-LC-L)	10 000	8000	6000	3000
40GBase-LR4	10 000	10 000	7000	4000
100GBase-LR4	10 000	10 000	6500	3500

* with one splice every 2 km between 2 connections if required

NEXT-GENERATION MEET-ME ROOM
SOLUTIONS COMING SOON

XPLORER™ ODF platform

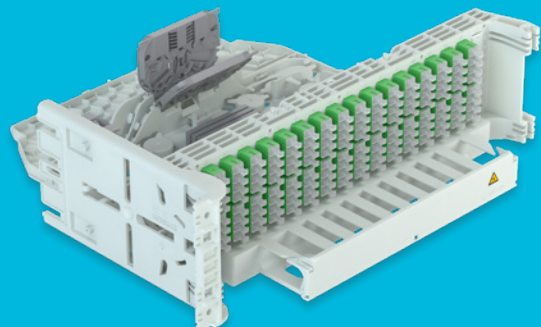
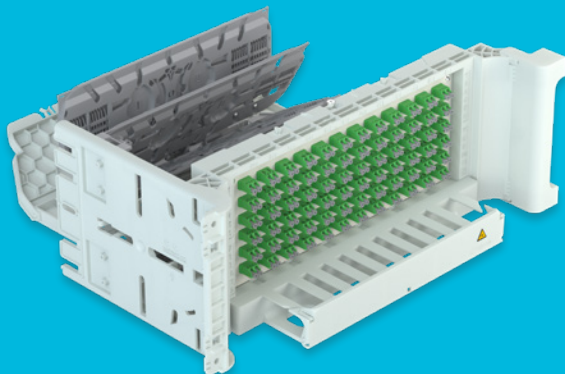
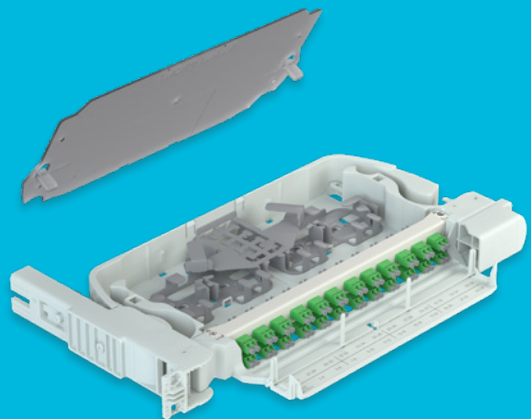
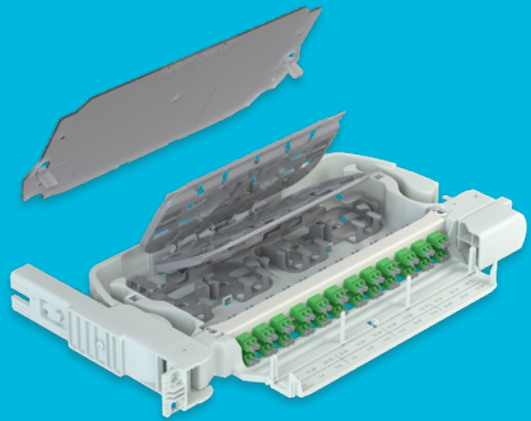
Aginode XPLORER is a next-generation range of optical distribution frame modules designed for central offices, street cabinets and meet-me-rooms. Combining modularity, robustness, and lightness with a symmetrical, user-friendly design, XPLORER pushes the limits of optical distribution solutions.

Engineered with eco-design principles, XPLORER optical drawers – commonly used for coupling and cross-connects – feature reinforced thermoplastic instead of metal. This innovation significantly reduces environmental impact during manufacturing, achieving:

- **44%** lower global warming potential
- **93%** reduction in resource depletion
- **59%** less total primary energy consumption
- **72%** lower fresh water usage



Stay tuned and learn more on
www.aginode.net/landing-page/xplorer



LANmark™

Copper solutions



**More
Data**



**More
Power**



LANmark-6A

for 10Gb/s Ethernet & High Power PoE

Aginode LANmark-6A cabling system is today's standard solution for Enterprise and Data Centre environments, offering guaranteed bandwidth to 500 MHz and therefore supporting 10G-BaseT, currently the highest performing application over horizontal copper cabling.

LANmark-6A cables and connectivity are manufactured and tested to the latest Cat 6A specifications defined in the International, European and American cable and cabling standards, including ISO 11801, EN 50173-1 and TIA-568.2-D

The LANmark-6A range supports short channel lengths down to 9m with 3 connection points (and 12m with 4 connection points). This makes it an ideal solution for modern Data Centres that are already facing severe space problems and where overlength cable is often installed in order to comply with the standard recommended minimum channel length of 24m. By reducing this minimum length, Data Centres

no longer need to install unnecessary excess cable, therefore reducing costs whilst also saving critical space.

- Guaranteed superior channel headroom for: NEXT (2dB) – Return Loss (2dB) – Alien Crosstalk (15dB)
- Interoperability due to Cat 6A component compliance
- Ability to install very short links, crucial in Data Centres

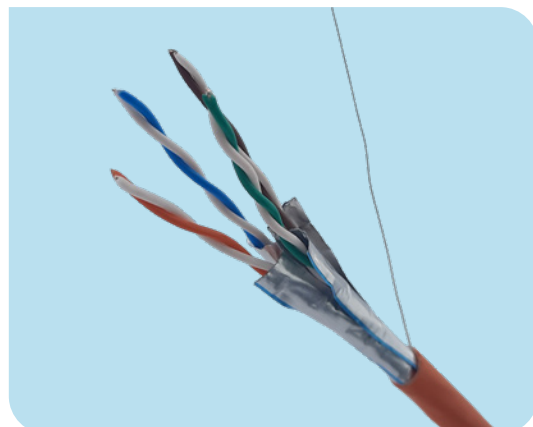
LANmark-6A Cable F/FTP

- Ideal cable for 10Gbase-T applications
- Full compliance with latest standards for Cat 6A and Class EA
- Guaranteed performance up to 500MHz
- Combination of global and individual pair shielding offering ANEXT and EMI immunity
- Standard LSZH version meeting IEC 60332-1 and EuroClass Dca
- Available in EuroClass Cca, also meeting IEC 60332-3



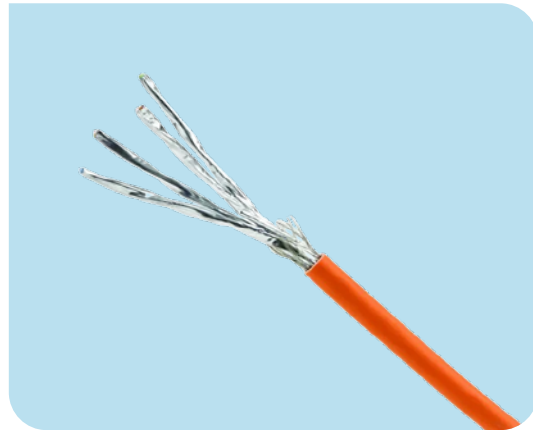
LANmark-6A Cable FxTP

- Innovative foil design combining global and individual pair shielding offering ANEXT and EMI immunity
- Ideal cable for 10Gbase-T applications
- Full compliance with latest standards for Cat 6A and Class EA
- Guaranteed performance up to 500MHz
- Installs as F/UTP, performs as F/FTP
- Standard LSZH version meeting IEC 60332-1 and EuroClass Dca
- Available in EuroClass Cca, also meeting IEC 60332-3



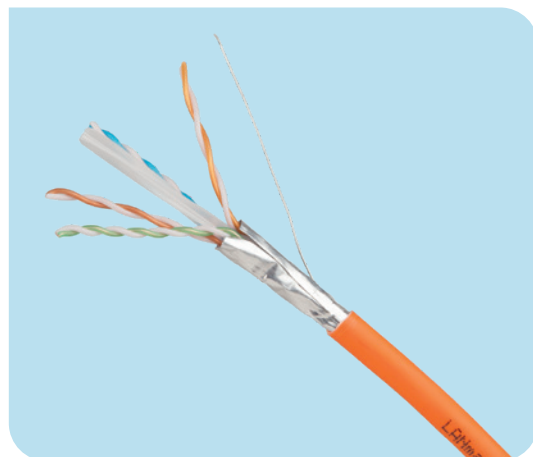
LANmark-6A Cable S/FTP

- Ideal cable for 10Gbase-T applications
- Full compliance with latest standards for Cat 6A and Class EA
- Guaranteed performance up to 500MHz
- Individual pair shielding with global braid offering ANEXT and EMI immunity
- Standard LSZH version meeting IEC 60332-1 and EuroClass Dca
- Available in EuroClass Cca and B2ca, also meeting IEC 60332-3



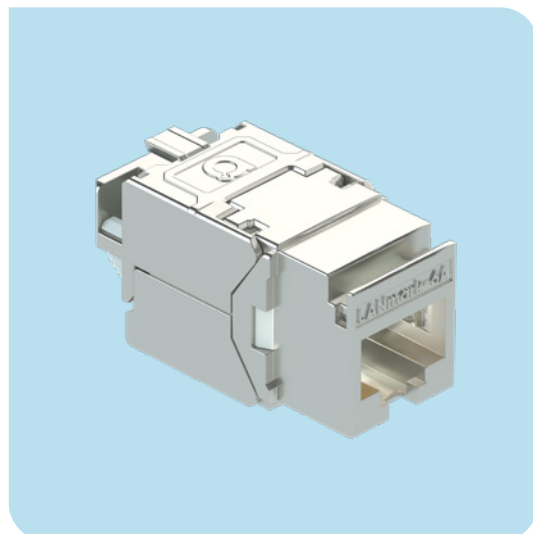
LANmark-6A Cable F1/UTP

- Ideal cable for 10Gbase-T applications
- Full compliance with latest standards for Cat 6A and Class EA
- Guaranteed performance up to 500MHz
- Global screen offering ANEXT and EMI immunity
- Foil with aluminium side facing outwards providing easy bonding to connector
- Offering same ease of installation as UTP cables, but with full protection against noise
- Standard LSZH version meeting IEC 60332-1 and EuroClass Dca
- Available in EuroClass Cca, also meeting IEC 60332-3.



LANmark-6A ULTIM Connector

- High speed Category 6A shielded connector
- Full compliance with TIA and ISO Category 6A cabling and connector standards
- Superior headroom thanks to new engine technology
- 3rd party certified for connecting hardware, Link and Channel
- PoE++ Type 4 certified, supporting applications delivering up to 90W
- Die-cast housing offering excellent EMC and Alien Crosstalk performance
- One-piece toolless design for fast and easy installation
- Accepts solid and stranded wire from AWG26 to AWG22
- Sustainable packaging: zero plastic, 100% recyclable



LANmark-6A ULTIM UniBoot Patch Cords

- High speed RJ45 patch cord to run 10Gbase-T and future Cat 6A applications
- High density support due to slim boot design
- Frequency range up to 500MHz, fully compliant with Cat 6A TIA-568.2-D and ISO 11801:2017
- Individually screened pairs offering internal and external noise immunity
- Black removable latch protector, replaceable with 7 other colours, offering possibility of differentiation between services



LANmark-6A EVO 2.0 Connector

APAC ONLY

- High speed Category 6A shielded connector
- Full compliance with TIA and ISO Category 6A cabling standards
- Supports PoE++ Type 4 applications delivering up to 90W
- Die-cast housing offering excellent EMC and Alien Crosstalk performance
- Toolless design for fast and easy installation
- Accepts solid and stranded wire from AWG26 to AWG22
- Sustainable packaging: zero plastic, 100% recyclable



Reference

N100.624G-OD
N100.623G-OD
N100.622G-OC
N100.654G-OD
N100.654G-OC
N100.684G-OD
N100.684G-OC
N100.684G-OB
N100.694G-OD
N100.693G-OD
N100.693G-OC
N420.960
N420.68A-01
N11A.U1FxxxOK
N11A.U1FxxxDK
N1SA.P1HxxxWK

N110.LPX

N420.110

Description

LANmark-6A F1/UTP AWG23 Cat 6A LSZH Dca s2 d1 a1 Orange 500m reel
LANmark-6A F1/UTP Dual AWG23 Cat 6A LSZH Dca s2 d2 a1 Orange 500m reel
LANmark-6A F1/UTP AWG23 Cat 6A LSZH Cca s1a d1 a1 Orange 1000m reel
LANmark-6A FFTP AWG23 Category 6A LSZH Dca s2 d1 a1 Orange 500m reel
LANmark-6A FFTP AWG23 Category 6A LSZH Cca s1a d1 a1 Orange 500m reel
LANmark-6A S/FTP AWG23 Category 6A LSZH Dca s2 d1 a1 Orange 500m reel
LANmark-6A S/FTP AWG23 Category 6A LSZH Cca s1a d1 a1 Orange 500m reel
LANmark-6A S/FTP AWG23 Category 6A LSZH B2ca s1a d1 a1 Orange 500m reel
LANmark-6A F/FTP AWG23 Cat 6A LSZH Dca s2 d1 a1 Orange 500m reel
LANmark-6A F/FTP Dual AWG23 Cat 6A LSZH Dca s2 d1 a1 Orange 500m reel
LANmark-6A F/FTP Dual AWG23 Cat 6A LSZH Cca s1a d1 a1 Orange 500m reel
LANmark-6A ULTIM Snap-In Connector Category 6A Screened
LANmark-6A EVO 2.0 Snap-In Connector Category 6A Screened
LANmark-6A ULTIM Patch Cord Cat 6A Screened LSZH Orange
LANmark-6A ULTIM Patch Cord Cat 6A Screened LSZH Grey
LANmark-6A Slimflex Patch Cord S/FTP LSZH White
("xxx" denoting length: 010 = 1m, 020 = 2m, 100 = 10m)
LANmark Latch Protector 50x ("X" denoting colour: K = Black, B = Blue, D = Dark Grey, G = Green, O = Orange, R = Red, Y = Yellow, W = White)
Cable Stripper 25x

APAC ONLY

N100.634G-OD
N100.638G
N420.216
N521.6671BK
N521.660BK
N11A.P1UxxxOK
N1SA.P1MxxxWK

These products are offered exclusively in the APAC region.

For detailed product information, please contact your local sales representative.

LANmark-6A UTP AWG24 Cat 6A LSZH Dca s2 d2 a1 Orange 500m reel
LANmark-6A UTP AWG23 Cat 6A LSZH Orange 305m box
LANmark-6A Keystone Connector Category 6A Unscreened
LANmark Patch Panel 24 Keystone staggered Black
Aginode Modular Patch Panel 24 Keystone Black
LANmark-6A Patch Cord Cat 6A UTP LSZH Orange
LANmark-6A Slimflex Patch Cord UTP LSZH White
("xxx" denoting length: 010 = 1m, 020 = 2m, ... 100 = 10m)

LANmark-7A

for 10/25 Gb/s Ethernet & High Power PoE

To accommodate converged applications, you need cabling that offers the ideal balance between delivering bandwidth AND power. LANmark-7A has capacity to support 25GB's and is the best solution for transmitting high power PoE. Cat 7A is the highest grade for Enterprise cabling defined by international standards.

Cat 7A / Class FA is standardised by ISO/IEC, the only worldwide standardisation body and applicable everywhere. It defines cabling up to at least 1000 MHz and at least 100m distance. Cat 7A is the "best in class" for Enterprise cabling and should be used always when Buildings are owned, not rented, and the cabling shall last 2 decades or even longer.

LANmark-7A can today be used to run 10G (even longer than 100m, up to 125m) and also prepared for a next application to come in Enterprise networking like 25Gigabit. The first step towards 25G networking has already been made in 2016 with the definition of a short reach Data centre application: 25GBASE-T according to IEEE802.3bq with 30m maximum length.

Can 25Gbase-T be used for Enterprise Cabling?

Like in Data centres, also Enterprise servers move up in network speed. Most Enterprise networks saw the first servers, demanding more than 10G already in 2020. 1 Gbps is now fully replaced by 10 Gbps and Enterprise servers already use 25G or more.

LANmark-7A also supports extended drive distance for 25 GBASE-T of ~ 40m and this enables to also connect High Speed Wireless Access Points with 25GBASE-T. In combination with 20-35m Wireless reach a good coverage for 70m for end devices is possible.

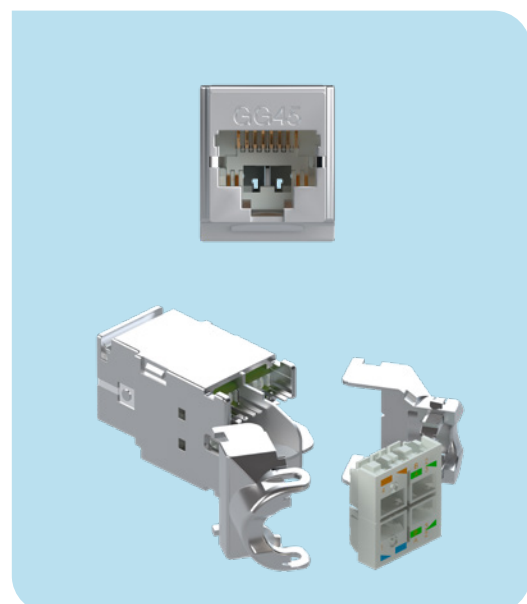
LANmark-7A is also 'Best in Class' for PoE cabling. PoE++ or High Power PoE uses power levels where cabling contributes the largest part of the power losses. The longer the cable the more power reduction by cabling is seen. But these power losses can be reduced making the right choice of the cabling grade. The better the cables the smaller the power losses. Almost 40% of the cabling related power loss (21W) can be saved with the Best in Class LANmark-7A Cable (13W).

LANmark GG45 Connector

LANmark GG45 is a screened RJ45-compatible cable jack specified up to 2000 MHz. It is designed specifically to support the high frequencies required for applications beyond 10 Gigabit Ethernet.

- Combined with LANmark-7A Cable and Patch Cords, GG45 offers support for 25Gbase-T.
- Combined with a LANmark-8 2GHz cable, GG45 offers support for 40Gbase-T.

LANmark GG45 uses 12 contacts: 8 contacts for the 2000MHz transmission (GG-mode) and 4 additional contacts to ensure RJ45 compatibility (RJ Mode). Thanks to its 360° screening and a fully closed rear cover, the connector allows excellent coupling attenuation and ensures immunity from alien crosstalk and other external interference. The LANmark GG45 connector fits in all structural hardware designed for the Snap-In Connectors and can be used in all positions of a 4 connector twisted pair cabling channel (PP, CC, CP, TO).



LANmark-7A 1250MHz AWG23 Cable

LANmark-7A S/FTP AWG23 cable has individual pair foils and an overall braid offering superior performance up to 1250 MHz. The cable is fully compliant with Category 7A standards for Enterprise and Data Centre use cases. It supports 10Gbase-T over 100m and 25 Gbase-T over 30m. In combination with GG45 connectivity also extended drive distances can be supported.

- Largely reduced noise levels to support high Signal to Noise Ratios
- Double Screening makes cables immune against Alien Crosstalk
- Energy Savings of 5 Watts/100m using POE++ (compared to Cat 5)
- 2 Watts/100 less than Cat6A
- 31% reduction of cabling related losses



LANmark-7A 1600MHz AWG22 Cable

LANmark-7A 1600 S/FTP AWG22 cable has individual pair foils and an overall braid offering superior performance up to 1600 MHz. The cable is fully compliant with Category 7A standards for Enterprise and Data Centre use cases. It supports 10Gbase-T over 100m and 25Gbase-T over 30m. In combination with GG45 connectivity also extended drive distances can be supported.

- Largely reduced noise levels to support high Signal to Noise Ratios
- Double Screening makes cables immune against Alien Crosstalk
- Energy Savings of 3 Watts/100m using PoE++ are possible. Energy Savings of 5,3 Watts/100m using PoE++ (compared to Cat 5 U/UTP)
- 2,45 Watts/100m compared Cat 6A F/UTP
- 33% reduction of cabling related losses



LANmark-6A RJ45 Patch Cord

To connect a LANmark-7A Permanent Link to a RJ45 Server Ports normal RJ45 can be used (see LANmark-6A Range). This reduces the investment cost during the time of 1Gb/s and 10Gbase-T networking.

GG45 Measurement Cord

Aginode GG45 to GG45 Measurement Cords with GG45 8C Plug on both sides support verification testing in Field installations using Channel adaptors.

LANmark-7A Patch Cord

- High bandwidth patch cord for Cross Connects, concatenation of GG45 based permanent links or
- Cat 7A Consolidation Points
- Runs the GG45 '2in1' Connector in its high-speed GG-Mode
- Uses GG45 8 Contact Plugs according IEC61076-3-110
- Allows full 4-conductor Class FA channels
- Compatible with High Density requirements in Data Centres

LANmark-7A Conversion Cords

- High bandwidth patch cords converting GG45 to RJ45 to connect GG45 links with RJ45 type active equipment
- Enhanced channel headroom compared to RJ45 only cords
- Required to reach extended drive distance for 10G



Reference

N100.371-OC
N100.371-OD
N100.372-OD
N100.373-OD
N100.381-OB
N100.381-OD
N100.383-OD
N420.735
N420.736
N101.2DACO
N101.2DAEO
N101.2DAFO
N101.23AEO
N101.23AFO
N101.23AHO
N900.67A

Description

LANmark-7A 1250 S/FTP AWG23 Cat 7A 1250MHz LSZH Cca s1a d1 a1 Orange 1000m reel
 LANmark-7A 1250 S/FTP AWG23 Cat 7A 1250MHz LSZH Dca s2 d1 a1 Orange 1000m reel
 LANmark-7A 1250 S/FTP AWG23 Cat 7A 1250MHz LSZH Dca s2 d1 a1 Orange 500m reel
 LANmark-7A 1250 S/FTP Dual AWG23 Cat 7A 1250MHz LSZH Dca s2 d1 a1 Orange 500m reel
 LANmark-7A 1600 S/FTP AWG22 Category 7A 1600MHz LSZH B2ca s1a d1 a1
 LANmark-7A 1600 S/FTP AWG22 Cat 7A 1600MHz LSZH Dca s2 d1 a1 Orange 1000m reel
 LANmark-7A 1600 S/FTP Dual AWG22 Cat 7A 1600MHz LSZH Dca s2 d1 a1 Orange 500m reel
 LANmark-7A GG45 12C Snap-In Connector Cat 7A 1000MHz Screened
 LANmark-7A GG45 12C Snap-In Connector Cat 7A 1000MHz Screened for stranded wire
 LANmark-7A Patch Cord GG45 8C to RJ45 Screened LSZH Orange 1m
 LANmark-7A Patch Cord GG45 8C to RJ45 Screened LSZH Orange 2m
 LANmark-7A Patch Cord GG45 8C to RJ45 Screened LSZH Orange 3m
 LANmark-7A Patch Cord GG45 8C Cat 7A Screened LSZH 2m Orange
 LANmark-7A Patch Cord GG45 8C Cat 7A Screened LSZH 3m Orange
 LANmark-7A Patch Cord GG45 8C Cat 7A Screened LSZH 5m Orange
 GG45 8C Measurement Cord Cat 7A Screened LSZH 2m Orange

Pre-Term Copper Assemblies

Pre-Terminated Copper assemblies can be Jack to Jack or Jack to Plug prefabricated units of single 4-pair cables, but most of the time are assemblies of multiple cables into bundles. As opposed to parallel bundled cables, which often have instable performance on higher frequencies during installation, LANmark Pre-Term assemblies are using sophisticated in-house bundling technology and keep full installation flexibility and bending capability in combination with stable electrical performance. We offer bundles with 6, 12 and 2x12 cables, but also other sizing can be made on request.

Installation and time saving

Aginode LANmark Pre-Term Units help reduce the installation time and risks as field connector termination is eliminated. Connectors are mounted and assemblies are tested in our factory. These features drastically reduce on-site installation time enabling massive cabling deployments in Data Centres within a very short time.

Each assembly is labelled with a traceability number and a link reference specified by the customer.

All modular structural hardware items designed for the Snap-In range can be used in all positions of a 4 connector twisted pair cabling channel (PP, CC, CP, TO).

- Fast and straightforward installation
- No on-site termination
- Reduce installation time
- No risk linked to field termination
- Supports 4 connectors channel configurations
- Labelling on each assembly (customisable)
- Factory tests in electronic format available on request

Performance

Cat 6A/Class EA, Cat 7A/Class FA headroom and bandwidth above the given category requirements according to the international, European and American standards especially for NEXT/FEXT, Power Sum NEXT/FEXT, Alien Crosstalk and Return Loss parameters are guaranteed. When used in combination with LANmark patch cords of the same category the full connector channel is guaranteed as well.

All assemblies are created in a controlled manufacturing environment. This ensures that all termination and bundling procedures are consistent, repeatable and reliable. All assemblies are individually tested, and test reports are stored for traceability purposes.

Guarantees

Aginode LANmark Pre-Terms are covered by a 25-year parts and labour warranty as described in the Aginode Certified System Warranty. When installed in combination with LANmark patch cords of the same category, a channel warranty can be obtained. Aginode Design Guidelines for length calculations and limitations according to the standards must be respected.

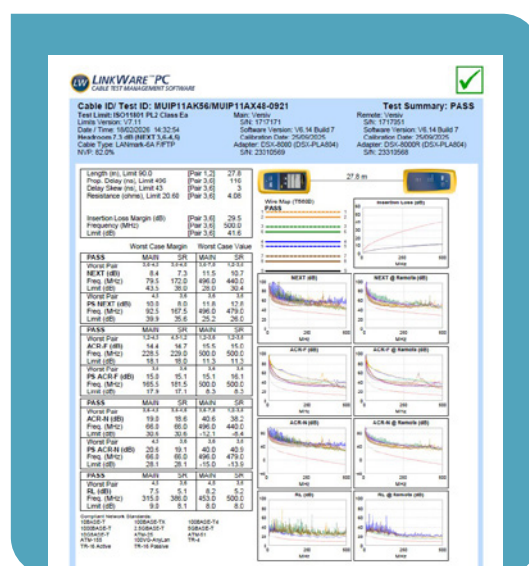
Product description

The range of pre-terminated copper assemblies includes both single units and bundles in Category 6A and 7A:

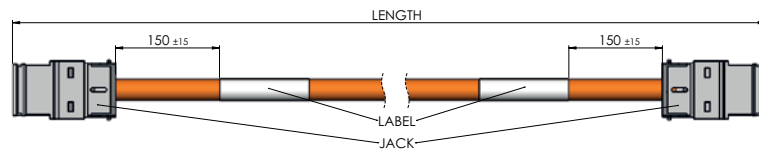
- Jack-Jack assemblies: 4 pair cable terminated with LANmark Snap-In jacks at both ends
- Jack-Plug assemblies: 4 pair cable terminated with a LANmark Snap-In jack at one end and a LANmark plug at the other end
- Long length Plug-Plug assemblies: 4 pair cable terminated with LANmark plugs at both ends

These units can be further assembled to form bundles of 6, 12 or 2x12 units

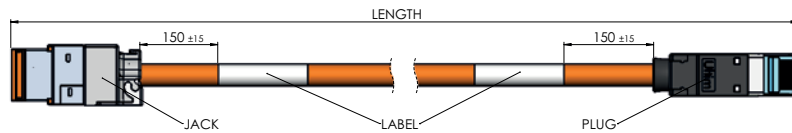
Example of Test report



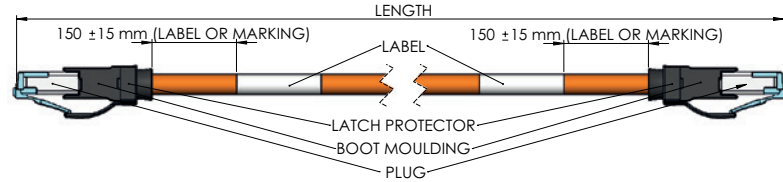
Single unit assemblies



Jack-Jack

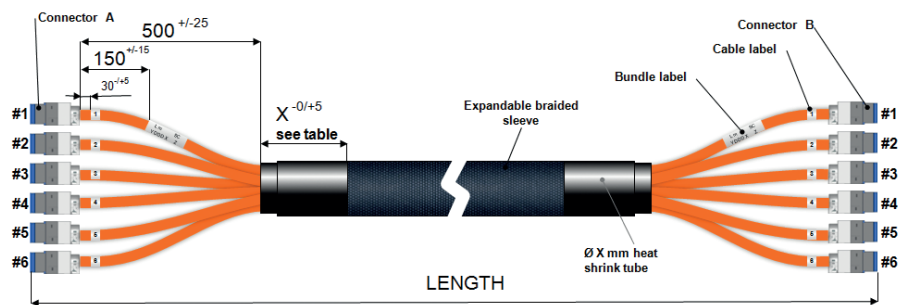


Jack-Plug



Plug-Plug

Bundles of Jack-Jack, Jack-Plug or Plug-Plug assemblies



Bundles

LANmark Pre-Term bundles are assemblies of 6, 12 or 2x12 pre-terminated single units. These can be Jack-Jack, Jack-Plug or Plug-Plug units. These units are maintained together as a bundle with a braided sleeve. LANmark Pre-Term bundles are well suited for areas where installation time is limited. Bundles of shielded units ensure immunity against Alien Crosstalk and other external interferences. Bundles of shielded units do not require on-site testing for Alien Crosstalk since this parameter is met by design.



Performance

Pre-Term assemblies can be produced in Cat 6A/Class EA and Cat 7A/Class FA. Headroom and bandwidth over and above the given category requirements according to the international, European and American standards especially for NEXT/FEXT, Power Sum NEXT/FEXT and Return Loss parameters are guaranteed. When used in combination with horizontal cabling and LANmark patch cords of the same category the full four-conductor channel is guaranteed as well.

Topology

This type of assembly is ideal in Data Centres and for horizontal distribution.

Unique from Aginode: laid up bundles

Bundles are usually made of single units running parallel. The negative effect of this is that the units slide against one another during winding and unwinding. The alignments of the connectors can't be maintained.

Single units from Aginode are cabled to form laid up bundles. This makes sure that connectors' alignment is maintained. This also makes the bundle more flexible and easier to install.

Bundled units are ideal to be installed between server racks or patch panels and consolidation points.

Installation

Aginode LANmark Pre-Term bundles help reduce installation time. Only a single assembly needs to be laid instead of 6, 12 or 24 individual cables. Furthermore, connector termination is simply eliminated, therefore eliminating field termination risks. Connectors are mounted and tested in our factory.

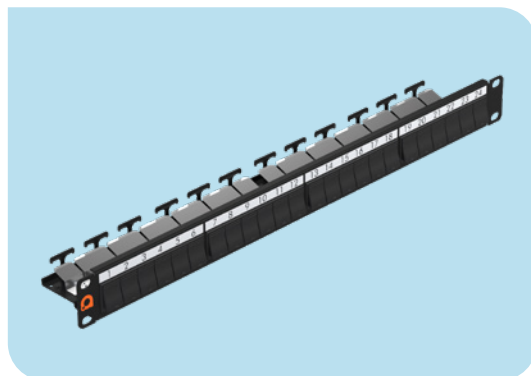
LANmark Pre-Term Bundles are designed to be laid and are not suitable for pulling. All modular structural hardware items designed for the Snap-In range can be used in all positions of a 4 connector twisted pair cabling channel (PP, CC, CP, TO).

- Numbering on each leg
- Labels on first leg of each assembly (customisable)
- Factory tests in electronic format on request
- Field testing required after installation

Modular Patch Panels

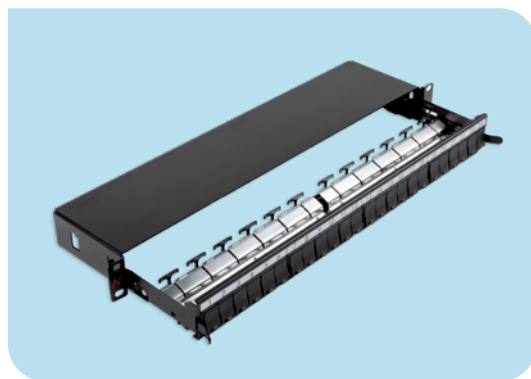
Patch Panel 24 Snap-In

- 1U flat design
- Compatible with all LANmark Snap-In connectors, screened and unscreened
- 1 to 24 numbered ports with removable shutters
- Shutters replaceable with coloured versions for distinction between services
- Clip-on rear cable management avoiding the use of cable ties, gaining installation time
- Auto-Connect earthing system
- Available in black and in white



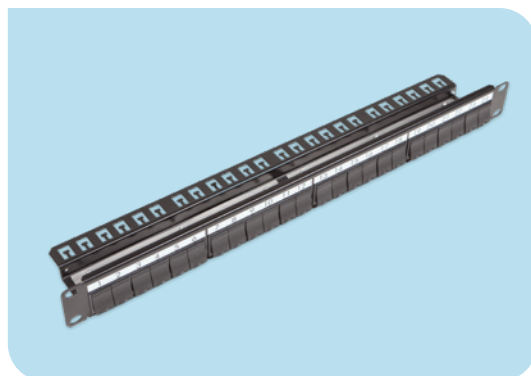
Patch Panel 24 Snap-In Sliding

- 1U flat design with sliding pull-out front
- Compatible with all LANmark Snap-In connectors, screened and unscreened
- 1 to 24 numbered ports with removable shutters
- Shutters replaceable with coloured versions for distinction between services
- Clip-on rear cable management avoiding the use of cable ties, gaining installation time
- Auto-Connect earthing system
- Available in black and in white



Patch Panel 24 Snap-In Black

- 1U flat design
- Compatible with all LANmark Snap-In connectors, screened and unscreened
- 1 to 24 numbered ports with removable shutters
- Shutters replaceable with coloured versions for distinction between services
- Auto-Connect earthing system
- Rear cable management with cable tie features



Reference

N521.661BK
N521.661
N521.663BK
N521.663
N521.664BK

Description

LANmark Patch Panel 24 Snap-In Fixed Black
 LANmark Patch Panel 24 Snap-In Fixed White
 LANmark Patch Panel 24 Snap-In Sliding Black
 LANmark Patch Panel 24 Snap-In Sliding White
 LANmark Patch Panel 24 Snap-In Black

High density panels

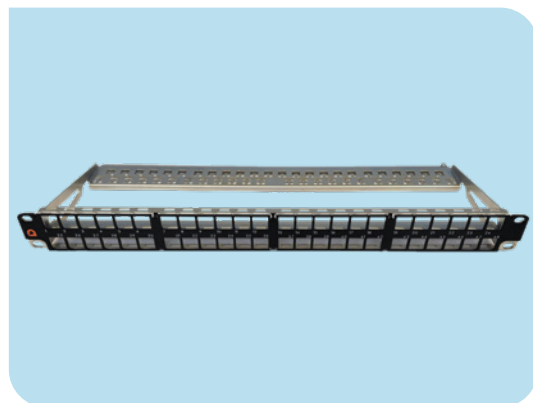
Angled Patch Panel 24 Snap-In Black

- 1U V-shaped design
- Supports high density patching – ideal for Data Centres
- Eliminates the need for additional cable management, optimising rack space usage
- Compatible with all LANmark Snap-In connectors, screened and unscreened
- Auto-Connect earthing system
- Rear cable management with cable tie features



Patch Panel 48 ULTIM 1U Black

- High density panel dedicated for LANmark-6A ULTIM connectors
- 48 ports in 1U
- Ideal for Data Centre cross-connects and server racks (also in combination with LANmark Pre-Terms)
- Robust steel construction with black painted removable front
- Connectors in latch-up/latch-down position for ease of patching
- Rear cable management with cable tie features
- Panel supplied without connectors



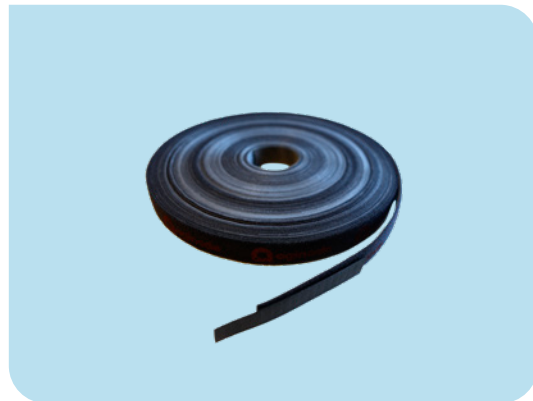
Reference
N521.671
N521.960BK

Description
LANmark Angled Patch Panel 24 Snap-In Black
LANmark Patch Panel 48 ULTIM 1U Black

Tools & accessories

Hook & Loop Cable Strap 25m Roll

- High quality self-gripping cable tie
- Black strap with orange Aginode logo
- Reusable multiple times
- Recommended to bundle and tie both copper and optical fibre data cables
- Reduces strain on cables compared to traditional cable fasteners
- 20mm width
- 25m roll



Comfort Tool

- Facilitates smooth termination of LANmark-6 Unscreened Evo and LANmark-7A GG45 connectors
- Allows re-opening of LANmark-6 Unscreened connector allowing retermination



Easy Termination Tool

- Prepares S/FTP cable for connection to LANmark-7A GG45 connector
- Makes LANmark-7 GG45 installation fast, easy and consistent
- Set of spare blades for Easy Termination tool available



Reference

N100.100

N420.567

N422.117

N422.118

Description

Hook & Loop Cable Strap 25m Roll Black

Comfort tool for LANmark-6 UTP and LANmark-7A GG45 connectors

LANmark-7A Easy Termination tool

Set of spare knives for Easy Termination tool

LANmark Coloured Shutters and Latch Protectors

- Available in 7 colours: white, , blue, red, dark grey, green, yellow, orange
- Coloured shutters can be used to replace standard black or white versions on LANmark Snap-In patch panels, outlet modules and zone distribution boxes
- Coloured latch protectors can be used to replace pre-fitted standard black versions on LANmark patch cords
- Suitable for differentiation between various services or applications by colour coding, throughout the entire channel
- Shutters: packed in bags of 100 / Latch protectors: packed in bags of 50



Keystone Clips

- Adapter allowing LANmark Snap-In connectors to fit the Keystone format
- Metal clip for GG45 connector
- Plastic clips for all LANmark connectors including GG45 connector
- 3 different plastic clips available for different keystone aperture dimensions (height and wall thickness)



Reference

N421.701XXX

N110.LPX

N429.625

N429.626

N429.627

N429.620

Description

LANmark Shutter 100x

("XXX" denoting colour: BLA = Black, BLU = Blue, DGR = Dark Grey, GRE = Green, ORA = Orange, RED = Red, YEL = Yellow, WHI = White)

LANmark Latch Protector 50x

("X" denoting colour: K = Black, B = Blue, D = Dark Grey, G = Green, O = Orange, R = Red, Y = Yellow, W = White)

LANmark Keystone Clip Evo (Wall Thickness 1.5-1.75) Red 24x

LANmark Keystone Clip Evo (Wall Thickness 2.0-2.25) Blue 24x

LANmark Keystone Clip Evo (Wall Thickness 2.0-2.25 Height 19.7) Yellow 24x

LANmark Keystone Clip GG45 24x

Secure Lock RJ45 cords

Secure Lock copper cords are designed to meet the needs of applications such as:

- PoE connector protection (damage caused by de-mating under load)
- Theft prevention (hotels/schools/libraries)
- Critical circuit protection
- Patch cord availability (meeting rooms)
- Redundant copper links
- Connection of IP security cameras

LANmark Secure Lock cords are equipped with a locking feature at either one or both plugs. Once the cord is plugged in and locked in place, the plug can no longer be unlatched from the RJ45 port. The cord can only be disconnected when the Secure Lock Key is used to unlock the latch.

The Category 6A Secure Lock cords have an orange LSZH jacket and are available in 1, 2, 3 and 5m lengths, with either 1 or 2 lockable plugs.



Reference

N1LA.P1HxxO77

N1LA.P1HxxO70

Description

LANmark-6A Secure Lock Patch Cord Category 6A S/FTP LSZH Secure Boots

LANmark-6A Secure Lock Patch Cord Category 6A S/FTP LSZH Single Secure Boot ("xxx" denoting length: 010 = 1m, 020 = 2m, 030 = 3m, 050 = 5m)

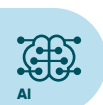
DCmark™

Cabinet Rack Unit Solution



Server Data Center Rack

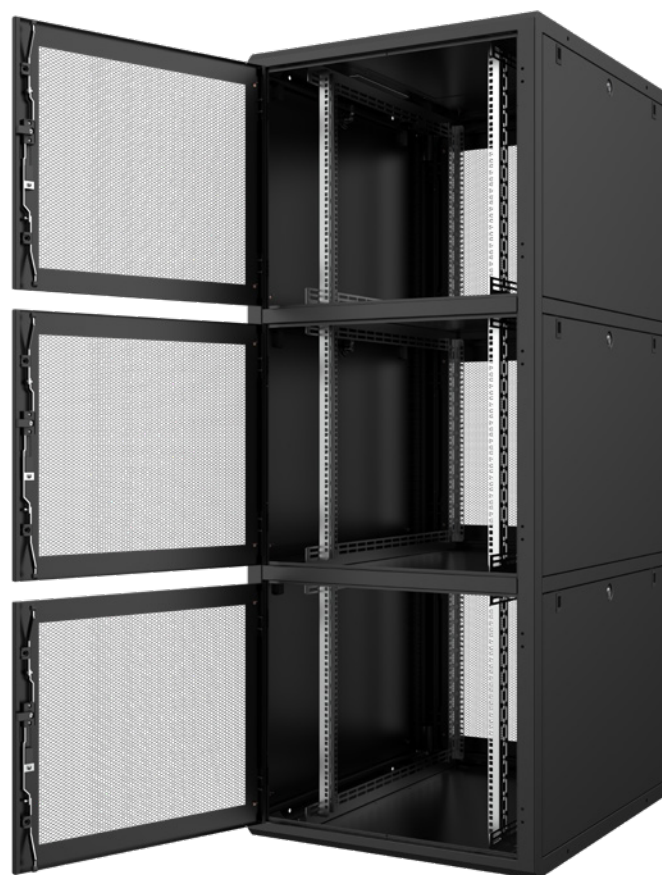
- 42U & 47U – available in several size 600/800/1000
- Robust metal construction offering a high loading capacity: 1500kg
- Perforated front & rear doors: 80% perforation ratio
- 19-Inch mounting front and rear
- Designed to host both copper and fibre cabling
- Robust metal construction
- Full access cabinet with vertical cord management (800mm width only)



Reference	Description
NRCK.420808440-B	DCmark™ Rack Unit Solution Server Rack 42U 800x800 perforated doors
NRCK.420810440-B	DCmark™ Rack Unit Solution Server Rack 42U 800x1000 perforated doors
NRCK.420812440-B	DCmark™ Rack Unit Solution Server Rack 42U 800x1200 perforated doors
NRCK.470808440-B	DCmark™ Rack Unit Solution Server Rack 47U 800x800 perforated doors
NRCK.470810440-B	DCmark™ Rack Unit Solution Server Rack 47U 800x1000 perforated doors
NRCK.470812440-B	DCmark™ Rack Unit Solution Server Rack 47U 800x1200 perforated doors

Collocation Rack

- 2 compartments: 2x20U
- 3 compartments: 3x13U
- 4 compartments: 4x9U
- 42U 800x800 with loading capacity up to 1500kg
- Single front perforated doors
- Double rear perforated doors
- Unique key per compartment
- Closed cable duct for confidentiality



Reference	Description
NRL2.420808340-B	DCmark™ Rack Unit Solution Collocation Rack 2 compartments (20U) 800x800 perforated doors
NRL3.420808340-B	DCmark™ Rack Unit Solution Collocation Rack 3 compartments (13U) 800x800 perforated doors
NRCK.420812440-B	NRL4.420808340-B: DCmark™ Rack Unit Solution Collocation Rack 2 compartments (09U) 800x800 perforated doors

LANsense™

Automated Infrastructure Management



**More
Safety**



**Easy
detection**



Automated Infrastructure Management

A reliable LAN infrastructure that is well managed and monitored in real time is an essential component of any company's business. This need is driven by increasing complexity and continuous change, which are becoming virtually impossible to manage manually. LANSense is Aginode's Automated Infrastructure Management (AIM) solution. Also known as Intelligent Infrastructure Management (IIM).

Why LANSense in Data Centres?

Data centres are becoming increasingly complex in terms of infrastructure and networks.

In today's dynamic data centre environment, control and monitoring are crucial.

The initial cost of the cabling system and its associated infrastructure represents a small fraction of the overall costs of a data centre. But because of its long life relative to other active equipment, cabling is by far the most complex and expensive infrastructure to replace.

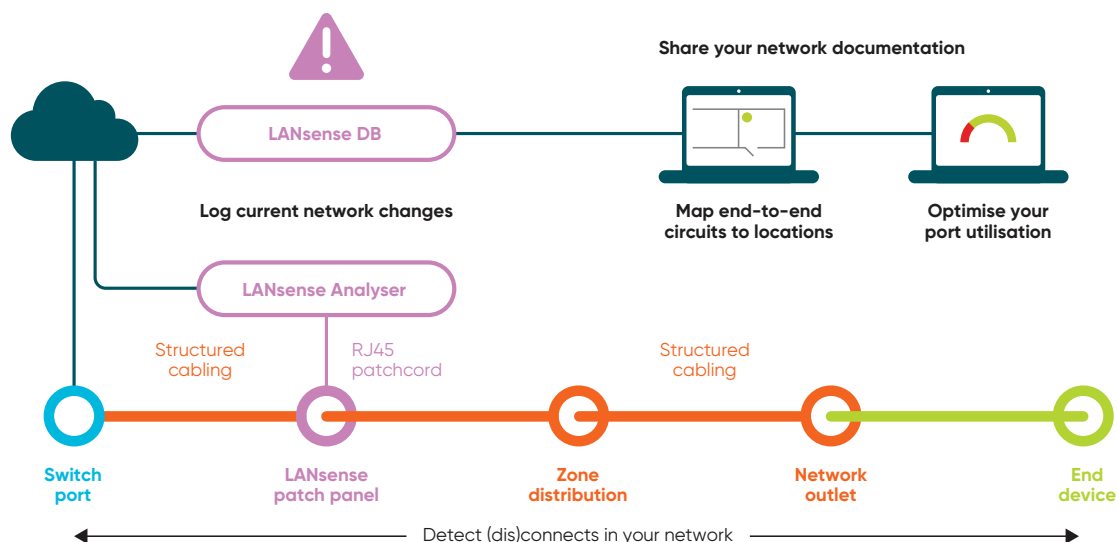
The multiplication of service providers hosted in data centres for customers, as well as the Cloud, generates an increased need to manage the physical installation and to control transfers, additions and changes (MACs). The initial documentation of the installed and tested infrastructure will surely be correct at the time of project delivery. But after that, it needs to be kept

up to date and well managed so that it remains reliable and accurate for planning future growth, energy efficiency, flexibility, availability and security.

How does LANSense help?

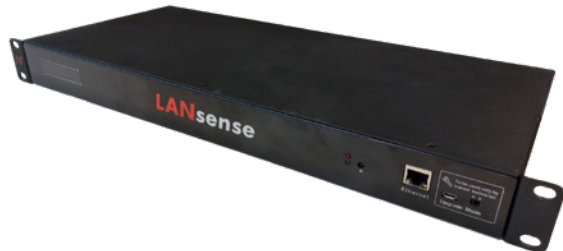
Aginode LANSense is an intelligent management system combining intelligent hardware and software. This platform combines information on physical layer and network connections. It provides a complete traceable path between the core, the periphery and the end devices. The software instantly updates the management database when changes or unauthorised connections/disconnections are detected. It also establishes a reliable audit trail to ensure compliance and compliance with legal obligations.

LANSense provides an additional level of security by detecting unauthorised equipment connections on the network, tracing the physical path of this equipment and locating it on the layout plan. LANSense also helps you make informed decisions to make better use of assets and resources, for example by showing how much space is available in racks, which patch panel ports are free, the different VLANs, which switch ports can be reclaimed and much more. The system automatically updates the documentation as soon as it is set up and is 100% correct.



LANsense TGA: LANsense Third Generation Analyser

LANsense TGA: A LANsense analyser is required to monitor all network ports, record changes in the events log, and continuously update and maintain the connectivity database. It connects to the equipment presentation panel and the horizontal distribution panel using RJ45 cords, and is in turn connected to the LANsense cable management SQL database.

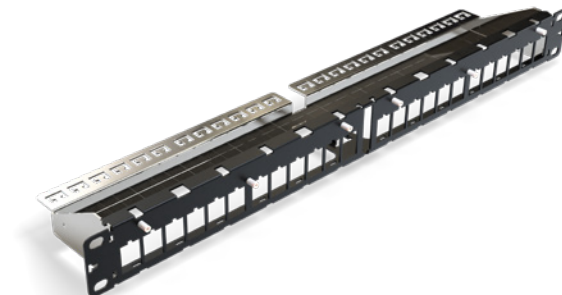


LANsense Patch Panels

Patch panels incorporate sensor circuits to detect the insertion or removal of cords.

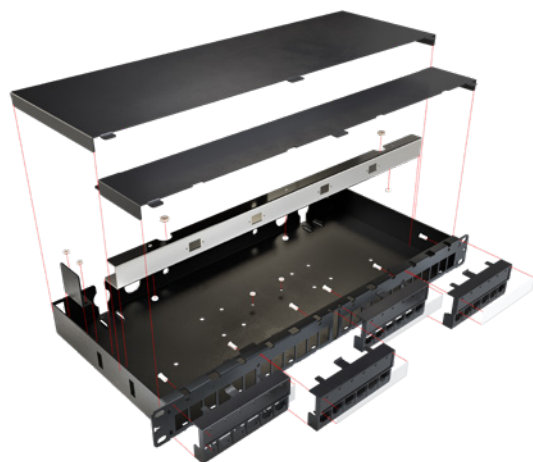
Patch Panel 24 ports Snap-In Fixed Black

- Compatible with all LANmark Snap-In Connectors
- 24 Snap-In ports
- Automatic connection detection
- Clip on Mechanism
- Universal design supporting unscreened and screened connectors
- Printed numbering for port identification



LANsense Sliding Fibre Panels

- Optical panel for rapid installation in data centres
- Dust cover to detect connections
- 2 versions of fibre panels:
Panels equipped with LC: 48 LC ports multimode or singlemode
Panels with MPO connector on rear and LC ports on front: 48 multimode or singlemode LC ports
- Sliding and tilting patch panel for easy installation, upgrading and maintenance
- Optimised hinged trays for optimum cable bending radius
- Marking system for port identification and patch cord management



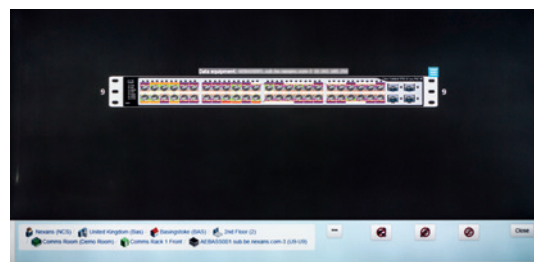
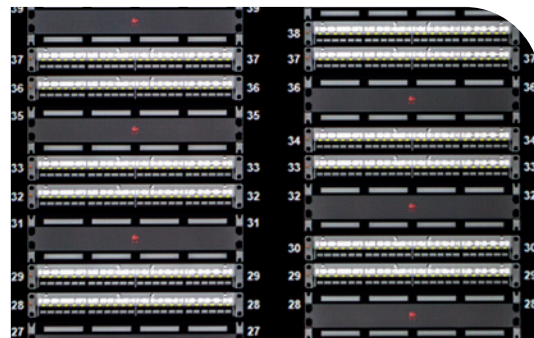
LANsense Software

The new LANSense software is 64 Bit safe and secure web based application. It communicates with the LANSense analyser, which monitors physical change, over TCP/IP and update the database providing real time, 100% reliable and accurate automated documentation of physical infrastructure.

Graphical View

Real time updated graphical view of cabling infrastructures in Data Centres and Equipment Rooms like :

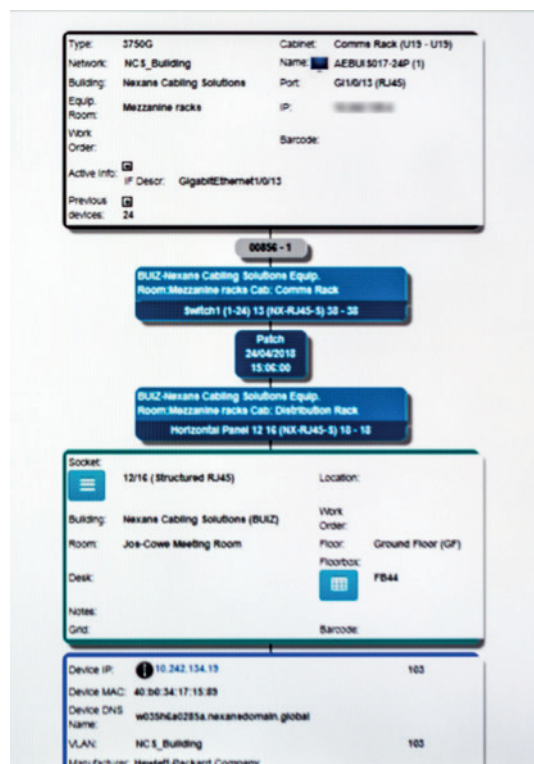
- Cabinets/Racks
- Networking Switches
- LANmark and LANSense Patch Panels
- Patch Connectivity information
- Live Switch port and connectivity information



Circuit Trace

LANSense provides real time circuit trace between Servers and End devices and the switch ports like:

- Information about the switch port, VLAN, IP/MAC address of the switch
- Information on the Location of the physical infrastructure like Patch Panels, Rack/Cabinets, Networking Equipment, Servers, End Devices
- Information on the Networking Equipment's, Servers, End Devices -IP/ MAC address, VLAN and DNS name

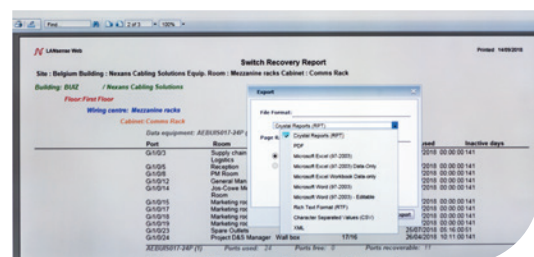


Reports

LANSense comes with pre-defined set of useful reports that can be generated on :

- Locations
- Connectivity
- Work orders
- Logs

LANSense reports are customizable and can also be configured by the user depending on his needs.



Floors planners

LANsense Planners is an interactive tool for locating physical assets or equipment on a floor plan.

Floor plans of data centres, small equipment rooms or a building floor can be used.

This tool displays information on available space units and total power consumption per cabinet.

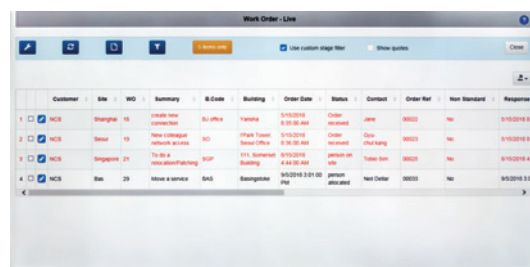
Other essential elements of data centres, such as uninterruptible power supplies and heating-ventilation-air-conditioning systems, can be documented on the layout plans, even if they are not part of the LANSense system.



Work orders

LANsense work orders are used for maintenance and management of network providing :

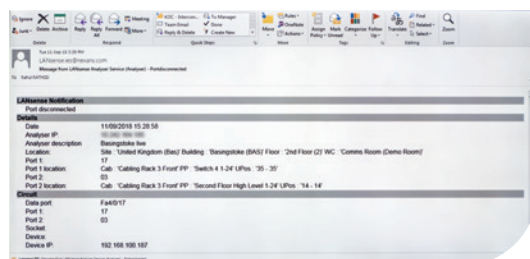
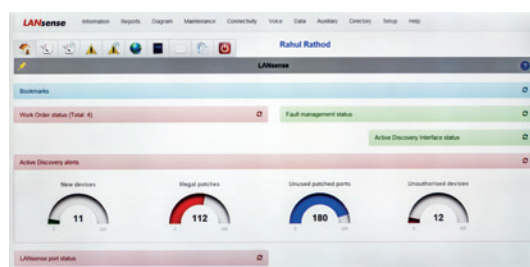
- Service Level Agreements
- Automatic Email configurations at different work order stages
- History of work orders and reporting



	Customer	Site	WCO	Summary	B Code	Building	Order Date	Status	Contact	Order Ref	Non Standard	Response
1	NCS	Shanghai	18	create new connection	SC office	Shanghai	9/10/2018 8:30:00 AM	Order received	JPH	0002	No	9/10/2018 9:1
2	NCS	Shanghai	19	New computer network at Lense	SC	Shanghai	9/10/2018 8:30:00 AM	Order received	Chen (Chen Wang)	0003	No	9/10/2018 9:1
3	NCS	Shanghai	21	To do a network planning	SCPT	Shanghai	9/10/2018 8:30:00 AM	person on site	Chen (Chen Wang)	0003	No	9/10/2018 9:1
4	NCS	Shanghai	22	Move a service	SCS	Shanghai	9/10/2018 8:30:00 AM	person allocated	Chen (Chen Wang)	0003	No	9/10/2018 9:1

Dashboards, Email Notification and Logs

- LANSense software provides a quick and simplified overview on the status of the network
- Immediately alerts users via email notification on occurrence pre-defined activities and events.
- Logs about various events and activities are maintained which are useful for monitoring and audit purpose



Integration Capabilities:

- LANSense allows you to integrate and communicate with third party software's and Hardware.

Training, Support & Warranty





Support

Aginode Visio Template 5.0 (AVT) Software

Aginode Visio Template 5.0 (AVT 5.0) is a free software tool designed to simplify and accelerate the creation of professional network infrastructure diagrams, rack layouts, and 3D cabling schematics using Microsoft Visio.

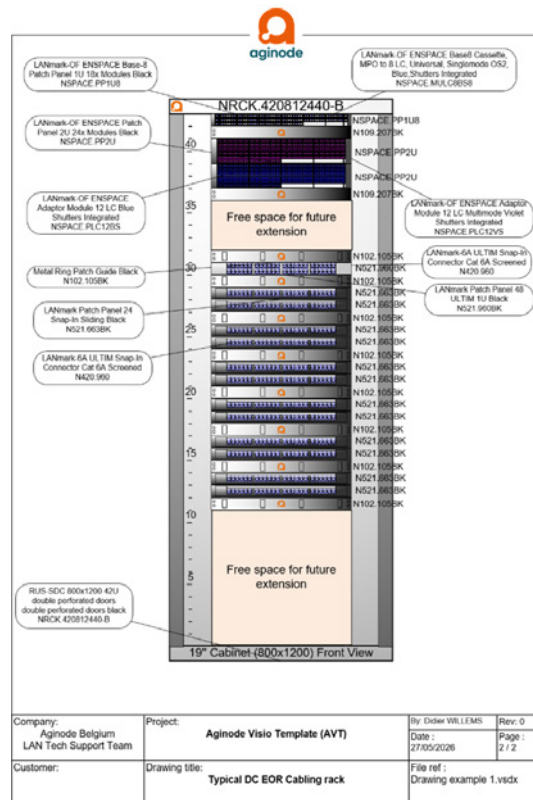
Developed for system designers, installers, consultants, and integrators, AVT 5.0 provides intelligent diagramming features, updated Aginode product libraries, and advanced export capabilities to improve productivity and documentation quality.

Features:

- Updated Product Libraries**
 AVT 5.0 includes fully updated Visio stencils covering the latest Aginode product portfolio.
- Intelligent Design Tools**
 Enhanced diagramming capabilities to streamline project creation and management.
- Improved Project Documentation**
 Product Selector for easy product navigation and identification, integrated Document Explorer and Advanced Bill of Materials Export.
- Direct Access to Product Information**
 All relevant shapes include hyperlinks to product datasheets available on the Aginode website.
- Easy to Use**
 Comprehensive help file for rapid onboarding for new users and broad compatibility with other tools and workflows.

Benefits:

- Accelerate network infrastructure design
- Reduce manual configuration work
- Improve design consistency and accuracy
- Generate professional documentation faster
- Create comprehensive rack layouts and cabling schematics
- Deliver higher-quality project documentation to customers



Training

In order to provide end users with maximum confidence, Aginode Certified Solution Partners (CSP) must pass training to ensure they are competent to install LANmark solutions to the required standard and are able to offer the full Certified Solution Warranty.

Courses are typically based on the following formats although training may vary slightly by country depending on local requirements and needs. These

programmes are all based on standardised Training Modules to ensure consistency of standards around the globe.

Contact us to get details of training courses in your region: info@aginode.net.

Training Modules Overview

Module 1	Premises Cabling Standards *
Module 2	Parameters for Copper Cabling *
Module 3	Aginode LANmark Copper Cabling Solutions *
Module 4	Installation Rules and Guidelines *
Module 5	Installation Practice & Testing Class D-E-EA Links *
Module 6	Installation Practice & Testing Class F-FA Links
Module 7	Optical Fibre Theory and Principles *
Module 8	Aginode LANmark Optical Fibre Cabling Solutions *
Module 9	Fibre Installation Practice with Direct Termination
Module 10	Fibre Installation Practice on Fusion Splicing
Module 11	Testing Optical Fibre Links *
Module 12	Fibre To The Office (FTTO)

* Module part of the 3 Day Supervisor/Expert Training Program

e-Learning

Aginode E-learning enables partners to follow parts of the Aginode training online and receive certifications which will reduce the amount of in-class training required.

Warranty

Fully comprehensive or self-certification options

Link Warranty

On-line self-certification

Aginode provides a unique 25 year self-certification Link Warranty for standard Cat 6 and Cat 6A installations – available for all installers.

- Instant certification – no waiting while application is processed
- Customised – certificate includes details of end customer and installer
- Easy – simply complete the short online form, generate and print the pdf certificate

Certified Solution Warranty

Complete confidence

Aginode Certified Solution Warranty is the most comprehensive guarantee on the market covering:

- Copper and Fibre
- Channel Performance – Horizontal, Campus and Backbone
- Application support
- Labour*

What is included	Link warranty certificate	Certified solution warranty
Brands covered :		
LANmark	✓	✓
Essential	✓	-
Copper categories covered :		
Cat 6	✓	✓
Cat 6A	✓	✓
Cat 7A	-	✓
Fibre	-	✓
Parts	✓	✓
Link performance	✓	✓
Full end-to-end channel	-	✓ *
Application guarantee	-	✓ *
Extended distance support	-	✓ *
Installation liability	-	✓ **
Aginode checked & validated validity	-	✓
Validité	25 ans	25 ans

* using LANmark patch cords

** when installed by a Certified Solutions Partner

Installer Programs



Certified Solution Partner (CSP)

CSP's are fully approved and validated by Aginode and are qualified to offer the fully comprehensive Certified Solutions Warranty.



ENGAGE

Our ENGAGE partners are our premier tier, exclusively selected to help deliver this commitment to our final clients.

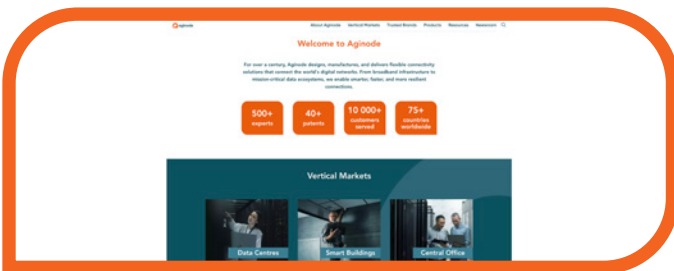


Registered Installer (RI)

Available to all applicants, RI's benefit from latest updates and can offer the self-certified online Link Warranty.

#smartconnection

Connect via **LinkedIn**



Learn more on **YouTube**

Visit **www.aginode.net**

Contact us via
info@aginode.net

www.aginode.net

