#smartconnection

LAN Systems

Aginode Product Catalogue

www.aginode.net

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Nexans

Telecom Systems

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About Aginode

Formerly Nexans Telecom Systems

Designs, manufactures & sells connectivity solutions for FTTx, Mobile, LAN & Data Centre markets.

Our goal: to enable the infrastructure which delivers applications that make lives more connected, productive, and enjoyable; today and in future.

Over **30 years** proven track record of developing, implementing, and servicing advanced infrastructure solutions.

- LANs and data centers: essential, LANmark™, LANsense™, LANactive
- FTTx and mobile networks: XPLORER™, BRIGHTBOX™, INFRABIRD™, UPSKY™

With state-of-the-art industrial footprint and recognized technological know-how in Europe, Middle East, North Africa, and Asia, Aginode will closely cooperate with teams of international companies and a wide range of local partners to ride the digital wave and push forward the development of smartconnection.

Build the **#smartconnection with Aginode!**

Global Expertise
- Over a hundred years of experience
- Global presence
- Leader in industrial standards
- The widest product range

Local Resource
- Rooted in local region
- Close to customers
- Tailored service for customers
- Fast reaction

Technological Leadership
- Technical innovation leader
- Focus on product performance

Technology & industrial footprint in Europe, Africa & Asia

4 **Dedicated technical centers**
in Europe & Asia, close to our customers

5 **Million euros**
R&D investments per year

35 **Active Patents**
dedicated to Telecom & Data network technologies

+1000
Global Certified Partners

+30
global sales offices

Optical Fibre Cables
Lamia – Greece

Accessories & Connectivity
Vrigne-Aux-Bois – France
Nouaceur – Morocco

Copper Cables
Fumay – France

LAN Systems
Buizingen – Belgium

Active LAN switches
Mönchengladbach – France

LAN Connectivity & Systems
Shanghai, China

THE MOST COMPREHENSIVE

> essential-6/LANmark-6

For 1 Gigabit Ethernet

Category 6 cabling with easy-to-use snap-in connectors deliver reliable, high-speed 1000Base-T applications with a bandwidth up to 250MHz. As an industry standard, they are a practical solution for most of today's business applications. Extremely installation-friendly, these cabling systems and accessory are ideal for normal building life.

> LANmark-6A

For 10 Gigabit Ethernet

LANmark-6A provides a zero-risk solution for 10G; fully component compliant, supports 10Gbase-T applications and those up to 500 MHz, guaranteed headroom against alien crosstalk which eliminates on-site field testing, and easy to install. This unique shielded system can support end-to-end channels as short as 7 metre lengths, e.g., between patch panels or adjacent electronics cabinets, especially in data centres. Ideal for data centres, storage area networks and buildings with a long life span.

> LANmark-7A

For 25 Gigabit Ethernet

For above 10G applications, LANmark-7A is backwards compatible with RJ45 connector, supports old devices based on existing RJ45 and meets & surpasses the latest international standards. Maximum test bandwidth can be up to 1600MHz and fully satisfy requirement for 25G Base-T application.

> LANmark-8

For 40 Gigabit Ethernet

Enhanced based on LANmark-7A, LANmark-8 supports high bandwidth up to 2000MHz and supports 40G Base-T at a transmission distance of 30m. Both systems are based on Aginode GG45 connector, which supports shielding with frequency up to 2000MHz and is backwards compatible with RJ45 cable connector. These improvements are designed to meet the challenge from 10G high-frequency Ethernet and above applications.

> LANmark-Industry/Maritime

Vital communication networks that support production processes must perform reliably in harsh, industrial environments every day. Prolonged exposure to dust, chemicals, liquids or EMI should not compromise the integrity of network infrastructure. Aginode has the technology and solutions to ensure your network keeps going. For example, with LANmark-7A and its revolutionary GG45 connector technology in harsh environments where re-cabling is cost prohibitive, like ships or oil rigs.

FIBRE SOLUTIONS OPTIMISED FOR FUTURE GROWTH

> essential

- Aginode essential fibre cables with tight buffer fibres meet the performance requirements of ISO/IEC 11801 and ANSI/TIA-568.3-D. The smaller outer diameter and bending radius of the cable make it more suitable for application in intelligent buildings and data centers with strict requirements on space utilization. While the structure of the fibre cable is optimized, the transmission stability of the cable system is effectively ensured, making it a universal solution that combines performance and cost effectiveness.

> LANmark-OF

- **Broad porfolio**

  From campus-wide backbones to data centres and fibre to the desk (FTTD), Aginode has the cable constructions and accessories to handle ever expanding bandwidth demands. Patch panels, distribution boxes and outlets complete the portfolio based on snap-in adapters for a flexible, modular approach that facilitates quick, easy installation.

- **Wide range of connectivity choices**

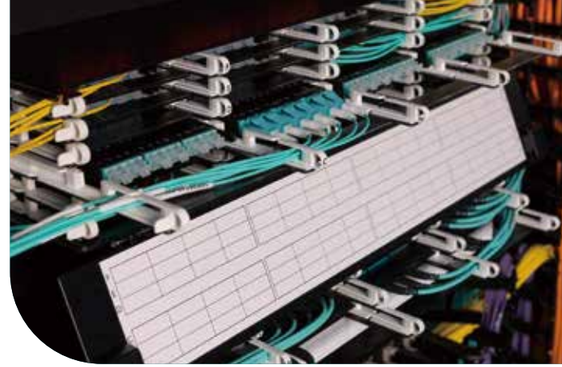
  Includes traditional installations like feld termination and fusion splicing to pre-assembled terminations ready for on-site connection. Connector ranges from single fibre SC and ST products to the new Multi-fibre Push On (MPO) system.

- **Pre-terminated assemblies/pre-loaded patch panels**

  Specifically designed for data centres, pre-terminated cable is produced under carefully controlled conditions to exact low loss specifications. When used with pre-loaded patch panels, these configurations significantly reduce costs by cutting the amount of on-site installation time and labor.

- **Plug & Play MPO for data centres**

  By using Aginode' convenient, flexible 'Plug & Play' MPO solution, data centres can save extensive time and labour expense, especially when executing moves, additions or changes. Installation, maintenance and patching is made more convenient since the same patch cords and MPO cassettes can be used throughout the data centre.



- **Exceptional standards compliance for extended distance**

  Aginode without newly standardized multimode OM4 fibre extends the reach for 10G up to 550 metres, making it the industry's best value for today and tomorrow's LAN applications It is not only suitable for current applications but also allows for transition to future applications with high-speed.

- **SlimFlex flexible fibre patch cord**

  A solution suitable for high-density environment. Even in places where patch cables are densely laid, easy plug-and-play can be realised, which significantly reduces risk of breakdown in data centres. In addition, compared to traditional fibre patch cords, the reserved space for cabling is further reduced.

- **ENSPACE**

  An optic fibre system solution specially designed for ultra-high-density data centre applications. This system can help enterprises build faster data centres by, for example, supporting applications with 10G, 40G, 100G, 400G or above bandwidth. It allows connection and modification of patch cord to be done in an instant and allows easy extension of ports.

ONGOING POTENTIAL OPERATIONAL BENEFITS

Whilst LANmark copper and fibre based cabling systems are the basis of its developments, Aginode not only offers reliable and easy to install infrastructures.

With management and control platforms linked and integrated in their cabling systems, IT managers can efficiently deal with variable business demands and sudden challenges to provide ongoing operational benefits.

> LANsense AIM

Decades of LAN expertise has led to the development of LANsense, an Automated Infrastructure Management (AIM) platform that provides real-time information about physical and network layer connections detailing a complete path between core, edge and end devices. It ensures connections are secure, and it accurately documents all connectivity including active and passive ports, and cable routing. The system automatically detects and identifies devices and provides security alerts for unauthorised changes. Change management is a key feature which includes the preparation and documentation of work orders. LANsense can also form the basis of a configuration management database (CMDB) and even provide a reliable audit trail to satisfy compliance and legal requirements.

Applications

Broad Portfolio

From campus-wide backbones to data centres and fibre to the desk (FTTD), Aginode has the cable constructions and accessories to handle ever expanding bandwidth demands. Patch panels, distribution boxes and outlets complete the portfolio based on snap-in adapters for a flexible, modular approach that facilitates quick, easy installation.

Recommended solutions:

LANmark-6A **LANmark-7/7A** **LANmark-OF**

Data Centre

Data centres require reliable, flexible and scalable fibre optic and copper cabling systems for their concentrated data storage areas. Aginode offers the smallest diameter and highest bandwidth as well as pre-terminated systems, which can greatly save space for installation in data centres. LANsense intelligent management system makes the management and maintenance in data centres easier and faster.

Recommended solutions:

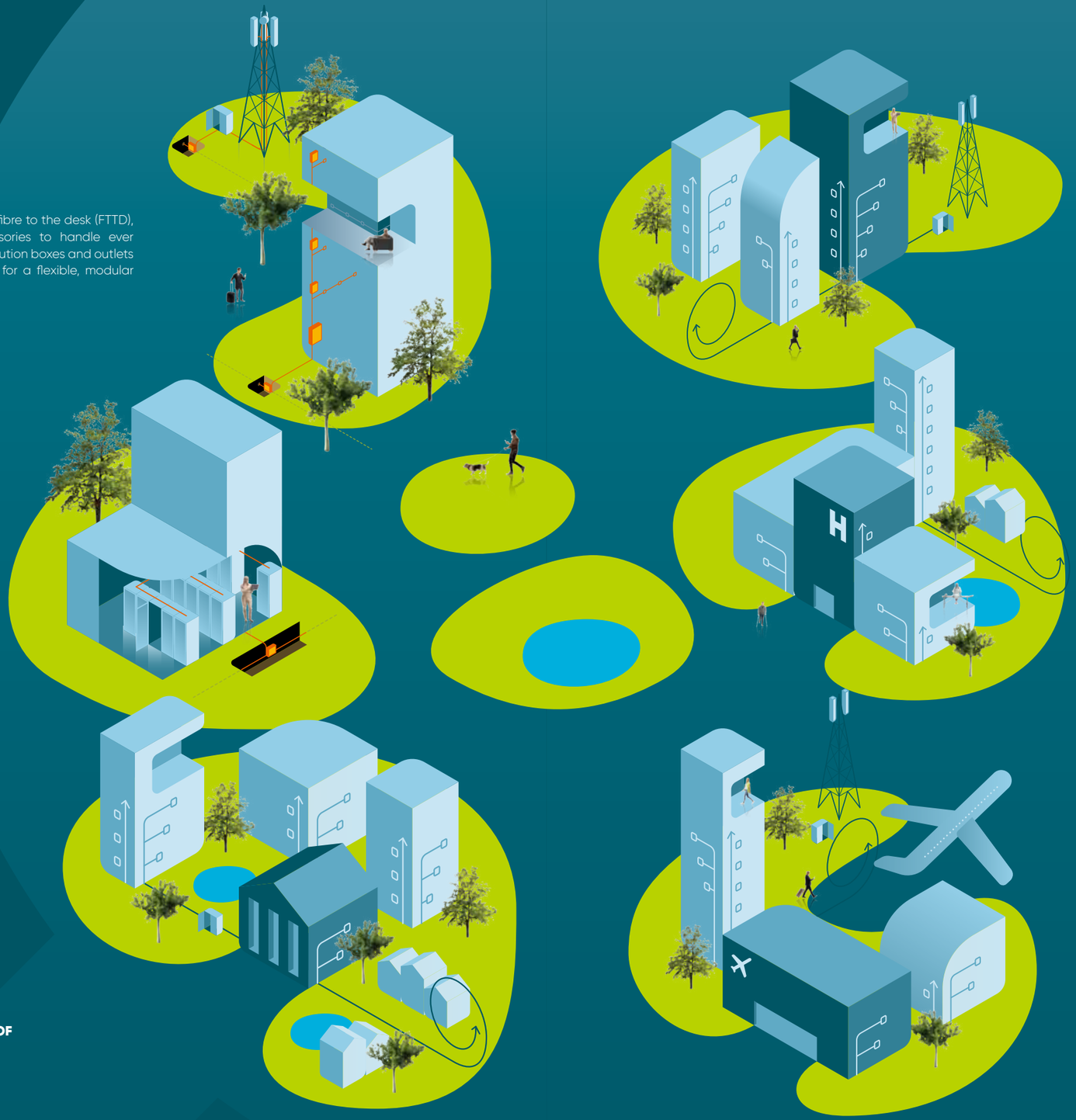
LANmark-6A **LANmark-7A**
LANmark-8 **LANmark-OF**
LANmark-OF ENSPACE **LANsense**

Education

Aginode offers a wide suite of cabling products for educational institutes who are taking advantage of new technologies such as distributed interactive technology and IP technology, from small school networks to large university campus networks. Aginode provides high-speed data and voice connection solutions, enabling easy connection in offices, classrooms, labs and dorms.

Recommended solutions:

LANmark-6/6A **LANmark-7/7A** **LANmark-OF**



Financial

Financial institutions have relatively high requirement on real-time network reliability. Frequent on-line data processing and exchange in different places relies on a fast, reliable and safe network.

Recommended solutions:

LANmark-6A **LANmark-7/7A** **LANmark-8**
LANmark-OF **LANsense**

Healthcare

Medical institutions require high-speed and stable network systems, to accommodate increasingly more applications onto their network. For example, on-line consultation, outpatient care workstations, anesthesia management sub-system, nurse workstations, clinical examination sub-system as well as picture archiving and communication, not only greatly increases the quantity of network terminals, but also leads to dramatic increase for network bandwidth.

Recommended solutions:

LANmark-6A **LANmark-7/7A**
LANmark-OF **LANmark Industry** **LANsense**

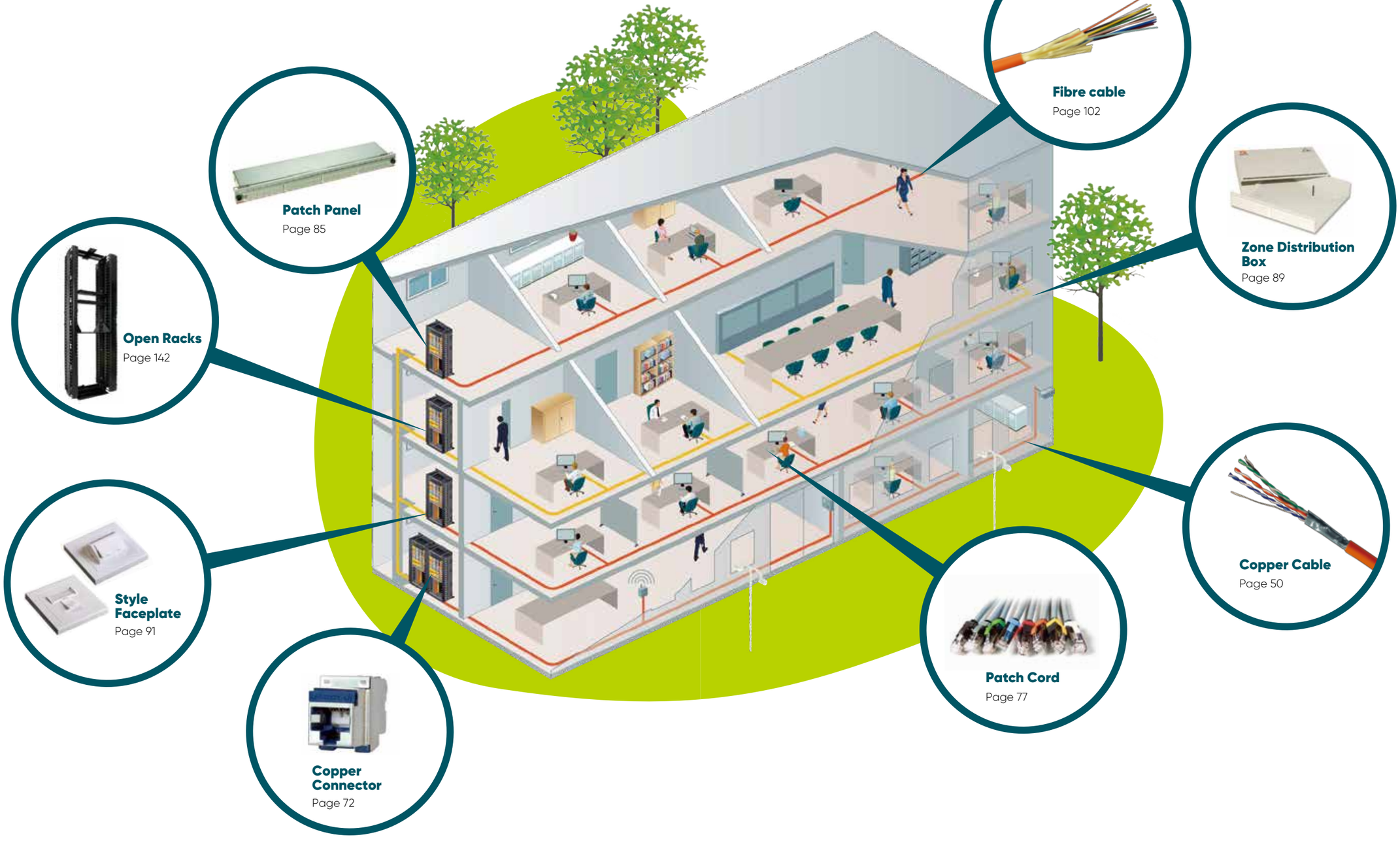
Government

Information security is particularly important to organizations like governments. Aginode provides secure cabling solutions to satisfy security requirements by government agencies.

Recommended solutions:

LANmark-6 **LANmark-6A** **LANmark-OF**

Products for buildings



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Copper Connector
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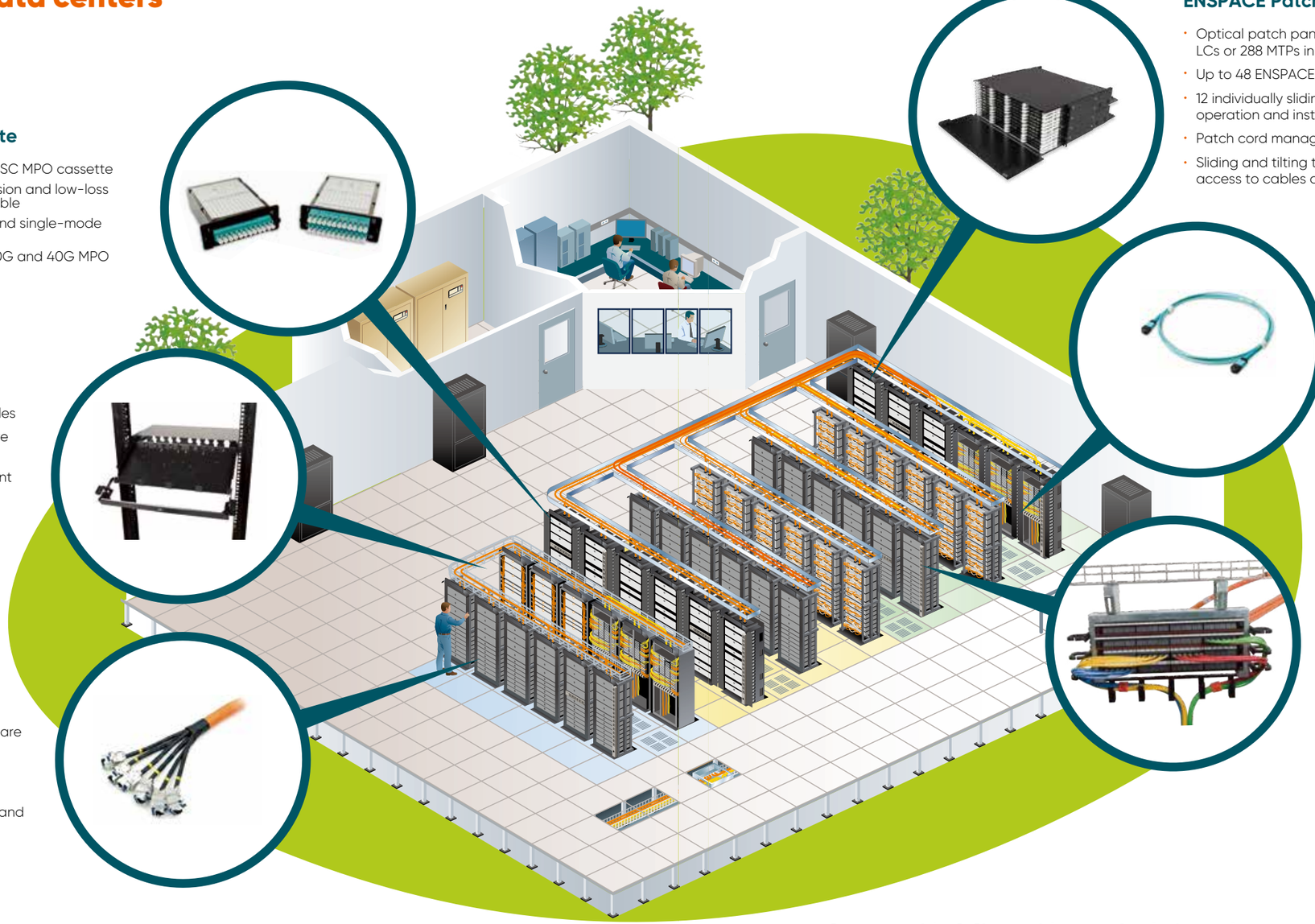
Products for data centers



MPO Casette

- 12LC-24LC-12SC MPO cassette
- Standard version and low-loss version available
- Multi-mode and single-mode available
- Suitable for 10G and 40G MPO connectors

Universal plug & play 1U/4U patch panel

- 1HU contains 4 MPO-LC modules
- Accommodate up to 288F-core fibre cable
- Cable tie is supplied at the front section, for easy maintenance
- LC/SC/MPO adaptor panel is available

Pre-Term copper cable or fibre cable

- Copper cable and fibre cable are pre-connected
- Cat6A/7A copper cable and OS2/OM3/OM4 fibre cable
- User-friendly number marking and package
- Performance guaranteed

ENSPACE Patch Panel

- Optical patch panel with Ultra High Density: up to 576 LCs or 288 MTPs in 4U
- Up to 48 ENSPACE modules in 4U
- 12 individually sliding trays for maximum flexibility during operation and installation
- Patch cord management for each individual tray
- Sliding and tilting tray at the rear of the panel for better access to cables during initial installation and additions

MPO fibre patch cord

- Support 40/100G Ethernet application
- OM3 or OM4 available
- Key up-key up design
- Relatively small outer diameter can greatly reduce footprint

Overhead patching frame

- 4HU open frame
- For overhead vertical or angled installation
- Fixation under or over cable trays
- Optional patch cord management accessories

1G-10G-40G Ethernet cabling

- Low loss fibre optic cabling for multi-segment configuration
- Superior optical performance to support greater distances
- Copper cabling with superior performance for energy saving
- GG45 module for 40G system

40G-100G-400G Ethernet cabling

- Support both LC and MTP pre-terminated ENSPACE fibre cable systems
- Suitable for high density environment in data centre
- Add more connection points without interruption
- Save 50% installation space

Copper cable & fibre cable

- Small sized MicroBundle fibre cable saves more installation space
- OS2 single-mode and OM3/OM4/OM5 multi-mode fibre cable
- Cat6A/Cat7A multi-pair cable
- Upgraded Cat7A copper cable bandwidth is up to 1600MHz
- Cat8 copper cable bandwidth is up to 2000MHz

Angled panel

- Optimal construction for data centre
- Choice for high-density installation
- Optional angled trunking and baffle
- LANsense versions avaliable

LANsense AIM

- Smart cabling management
- Real-time IP monitoring
- Ideal tool for system file, report and error alarm
- Data centre platform

Visio Template 4.0 with NVT 3D

Description

Aginode' network design tool, NVT can create a professional layout of cabinets, select materials needed for cabling system by product selection tool, and import BoM (bill of materials) created into Excel to facilitate calculation of cost. NVT3.2 can also enable 3D drawing. The Visio libraries of intelligent drawing shapes cover LANmark, LANsense AIM and now LANactive ranges.

The tool can help you design quickly and professionally and deploy the generic cabling closet (building FD, BD, CD; data centre MD, ZD, EO, ENI...).

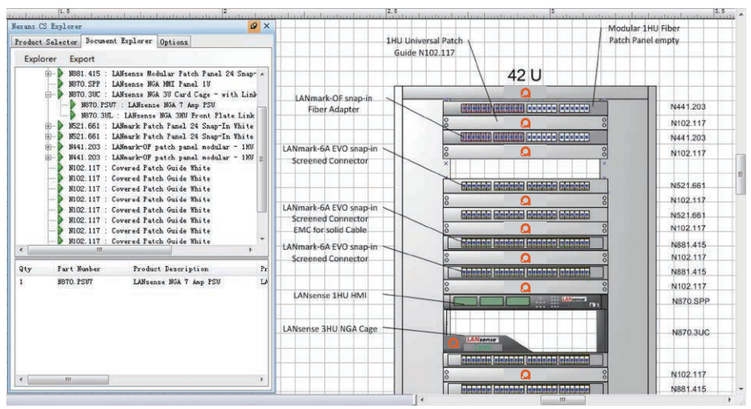
Aginode NVT network design tool will help you gain a favorable position versus your business competition.

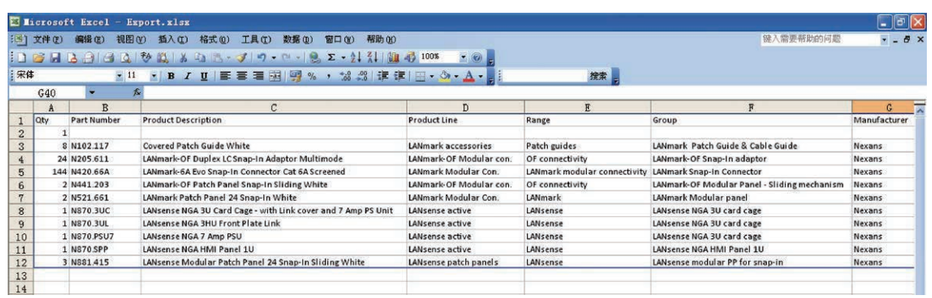
Features

- Create professional rack diagrams
- BOM export to Excel
- Include existing LANmark, LANsense and essential series.
- 3D tool for schematics
- Allow browsing product specification directly via link

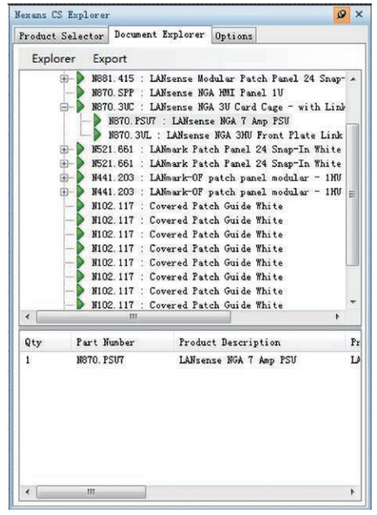
Address for free download:

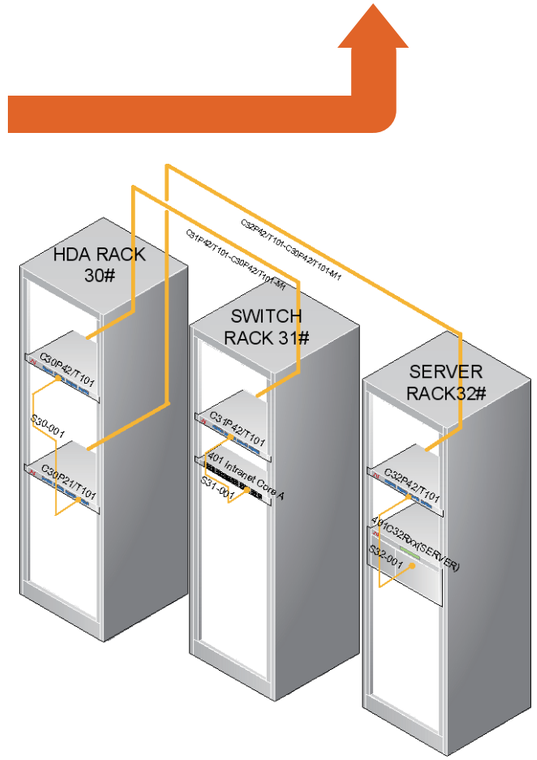
https://www.aginode.net/products/data-network-solutions/software-training-services/network-design-tools

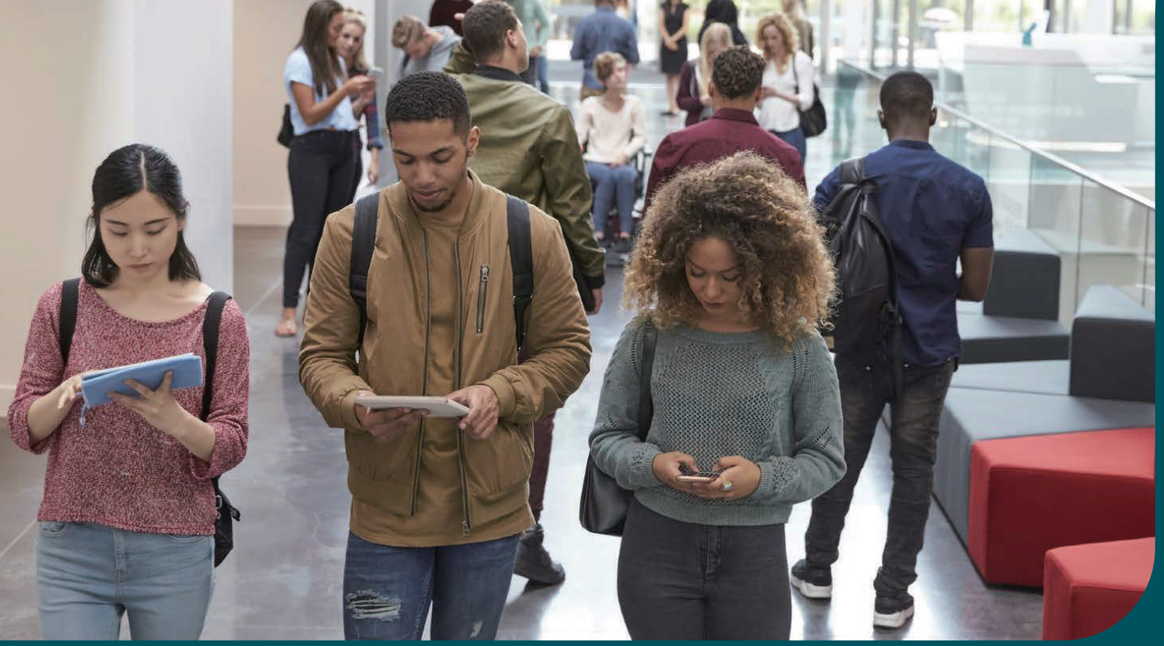




	A	B	C	D	E	F	G
1	Qty	Part Number	Product Description	Product Line	Range	Group	Manufacturer
2		1					
3		8	N102.117	Covered Patch Guide White	LANmark accessories	Patch guides	LANmark Patch Guide & Cable Guide	Nexans
4		24	N205.611	LANmark-OF Duplex LC Snap-in Adaptor Multimode	LANmark-OF Modular con.	OF connectivity	LANmark-OF Snap-in adaptor	Nexans
5		144	N420.66A	LANmark-6A Evo Snap-In Connector Cat 6A Screened	LANmark Modular Con.	LANmark modular connectivity	LANmark Snap-in Connector	Nexans
6		2	N441.203	LANmark-OF Patch Panel Snap-In Sliding White	LANmark-OF Modular con.	OF connectivity	LANmark-OF Modular Panel - Sliding mechanism	Nexans
7		2	N521.661	LANmark Patch Panel 24 Snap-In White	LANmark Modular Con.	LANmark	LANmark Modular panel	Nexans
8		1	N870.3UC	LANsense NGA 3U Card Cage - with Link cover and 7 Amp PS Unit	LANsense active	LANsense	LANsense NGA 3U card cage	Nexans
9		1	N870.3UL	LANsense NGA 3HU Front Plate Link	LANsense active	LANsense	LANsense NGA 3U card cage	Nexans
10		1	N870.PSU7	LANsense NGA 7 Amp PSU	LANsense active	LANsense	LANsense NGA 3U card cage	Nexans
11		1	N870.SPP	LANsense NGA HMI Panel 1U	LANsense active	LANsense	LANsense NGA HMI Panel 1U	Nexans
12		3	N881.415	LANsense Modular Patch Panel 24 Snap-In Sliding White	LANsense patch panels	LANsense	LANsense modular PP for snap-in	Nexans
13								
14								





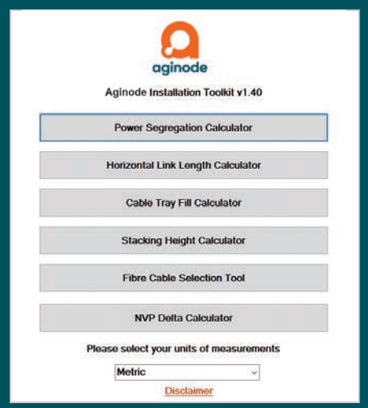


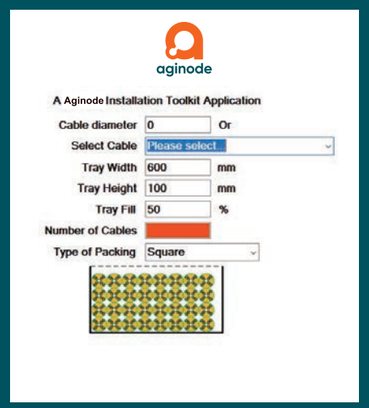
Installation Toolkit

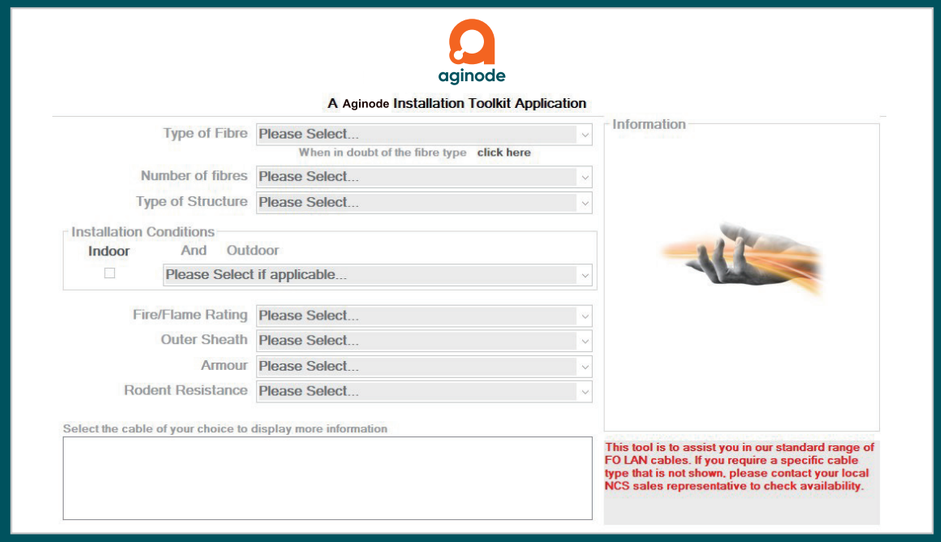
Aginode Installation Toolkit

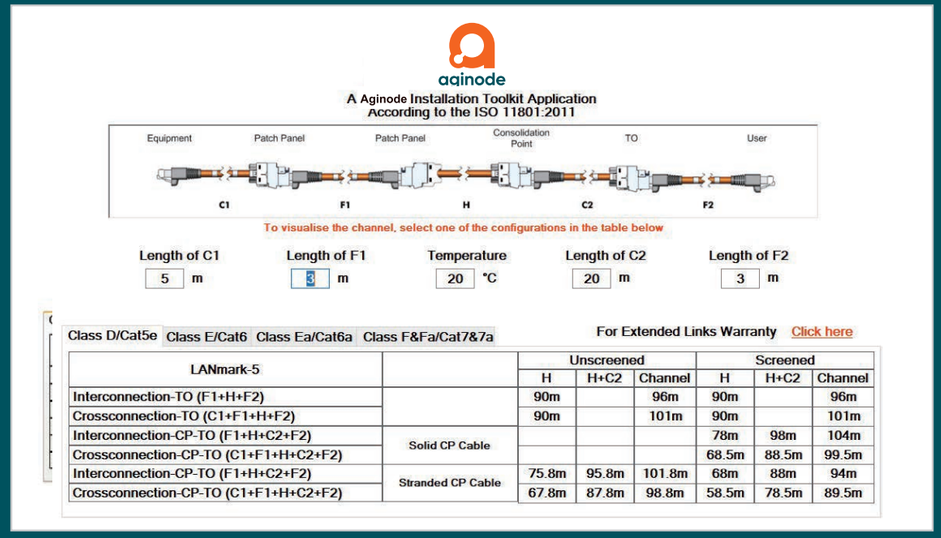
Aginode Installation Toolkit helps you complete planning, design and installation swiftly during installation of your LAN infrastructure. The toolkit includes a Power Segregation Calculator, Horizontal Link Length Calculator, Cable Tray Fill Calculator, Stacking Height Calculator, Fibre Cable Selection Tool and NVP Delta Calculator. Aginode' Installation Toolkit supports a number of language environments.

Address for free download:
https://www.aginode.net/products/data-network-solutions/software-training-services/network-design-tools





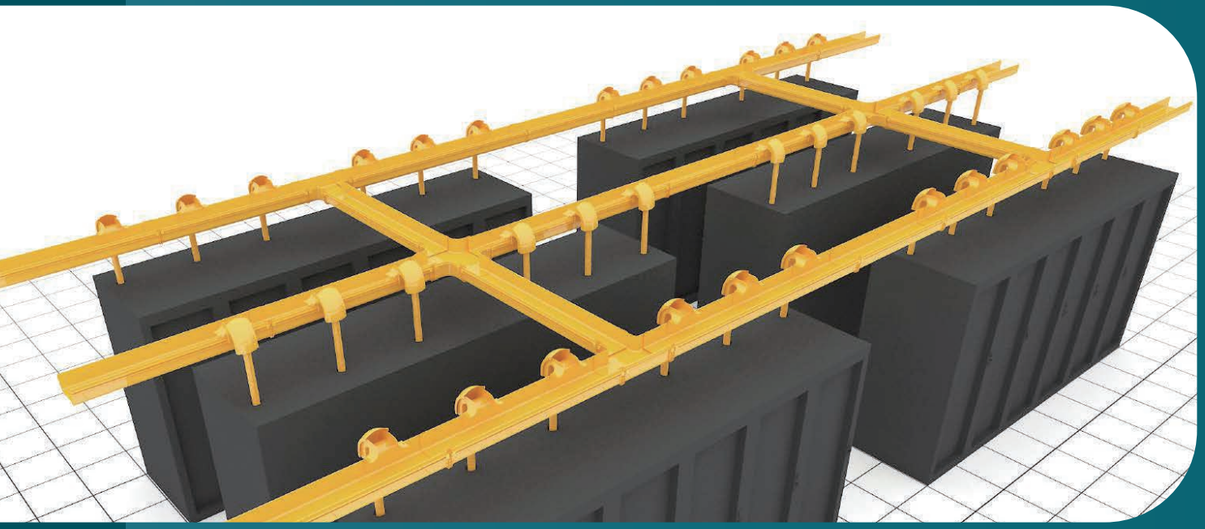




LANmark-5		Unscreened			Screened		
		H	H+C2	Channel	H	H+C2	Channel
Interconnection-TO (F1+H+F2)		90m		96m	90m		96m
Crossconnection-TO (C1+F1+H+F2)		90m		101m	90m		101m
Interconnection-CP-TO (F1+H+C2+F2)	Solid CP Cable				78m	98m	104m
Crossconnection-CP-TO (C1+F1+H+C2+F2)					68.5m	88.5m	99.5m
Interconnection-CP-TO (F1+H+C2+F2)	Stranded CP Cable	75.8m	95.8m	101.8m	68m	88m	94m
Crossconnection-CP-TO (C1+F1+H+C2+F2)		67.8m	87.8m	98.8m	58.5m	78.5m	89.5m

Fibreroute Planner

Visio-based Fibreroute Planner



Aginode FIBREROUTE Planner tool is a Visio template and add-in that provides the ability to create layouts of the FIBREROUTE trunking system to scale and export a Bill of Materials to Excel, which can then be used for pricing calculations. It enables system designers, installers and integrators to create professional data centre layout drawings showing the row of racks and the trunking design quickly and efficiently.

The software simplifies the design methodology through its additional tools such as:

- libraries of unique intelligent shapes
- elevation and section views of the Data Centre room layout
- metric and US unit templates
- a product selection tool to easily find any FIBREROUTE shape
- the Bill of Material (BoM) exporter from Visio to Excel
- the provision of hyperlinks to the data sheets on Aginode website
- a detailed user manual describing all the features of the tool
- all-round system compatibility with other tools

Installation requirements

Aginode FIBREROUTE Planner is compatible with any edition of Visio 2010, Visio 2013, Visio 2016 and Visio Pro for Office 365. Two installation options are available (32 or 64 bit) depending on your software configuration.

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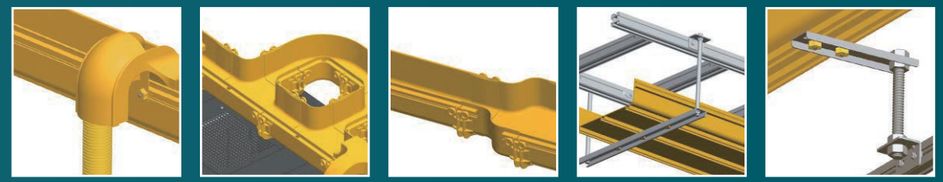
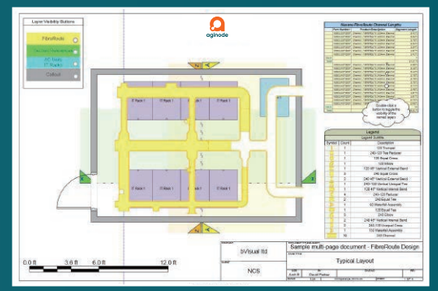
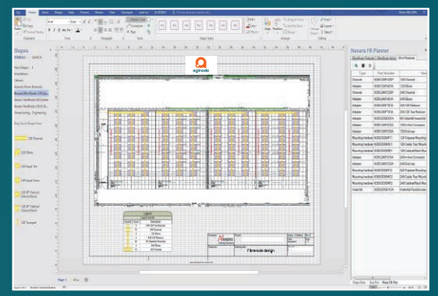
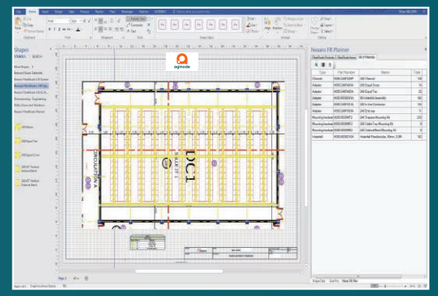




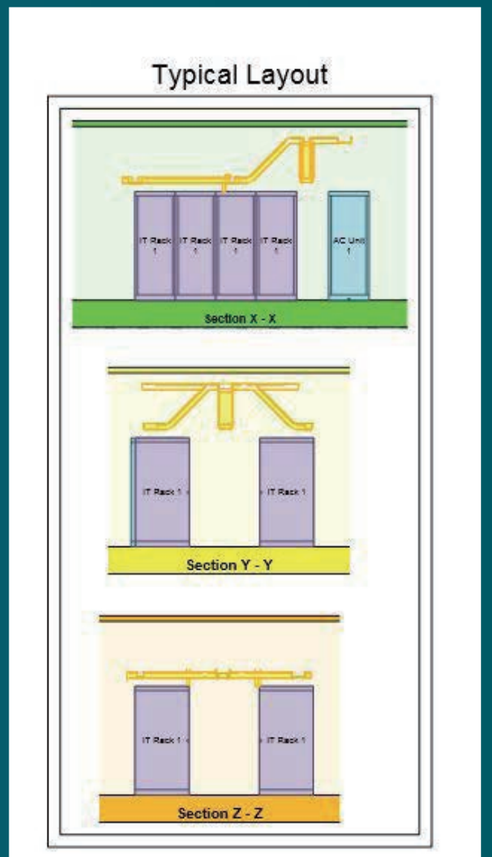
Create your own fibreroute system in Visio template



A number unique intelligent shapes are available



Export the Bill of Material to Excel for pricing calculations



Includes elevation and section views of the data centre room layout

Data Centre Solutions

LANmark Pre-terminated Copper Cable

Description

The Pre-terminated Bundles are composed of 6, 12, 24 copper cables and connectors pre-terminated in the factory. The copper cables are externally wrapped with jackets to hold the group of cables together, which helps saving a lot of installation time and space. Bundles of shielded units ensure immunity from Alien Crosstalk and other external interference. The port type is a separate screened module.

Aginode LANmark pre-terminated copper cables help reducing the installation time. The connectors performance is tested before delivery. It is not recommended to pull the pre-terminated copper cables during installation.

Characteristics

- Fast installation
- No need for on-site termination
- Reduced installation time
- 360°EMC protection and alien crosstalk compliant shielded system
- Support the 4 connectors channel model
- Ideal assemblies for high density cabling and datacentres
- Labelling on each cable
- Factory tests in paper or electronic format on request (electronic documents shall be specified in advance)

Cat6A/Class EA and Cat7A/Class FA pre-terminated bundles can be provided. Allowance for NEXT/FEXT, PS NEXT/FEXT and Return Loss are guaranteed for each bundle of cable. When the pre-terminated copper cables are used in combination with horizontal cabling and LANmark patch cords of the same category the four-connectors links and channels are guaranteed as well.

Cable Outer Diameter

Cables	F1/UTP Cat6A 7.5mm	F/FTP Cat6A 7.0mm	S/FTP Cat7A 7.7mm
6 pieces	23mm	21.5mm	23.5mm
12 pieces	30.5mm	29.5mm	31.5mm

Product List

Aginode ref.	Description	Length Range
N62A.4C21A6XA6X150	LANmark-6A 15m Pre-terminated Bundles, 6xCat6A, F1/UTP Solid Screened Module-Screened Module, LSZH, Orange	5~50m
N63A.4C21A6XA6X150	LANmark-6A 15m Pre-terminated Bundles, 12xCat6A, F1/UTP Solid Screened Module-Screened Module, LSZH, Orange	5~50m
N62A.6H21A8XA8X150	LANmark-7A 15m Pre-terminated Bundles, 6xCat7A, S/FTP Solid Screened Module-Screened Module, LSZH, Orange	15~50m
N63A.6H21A8XA8X150	LANmark-7A 15m Pre-terminated Bundles, 12xCat7A, S/FTP Solid Screened Module-Screened Module, LSZH, Orange	15~50m

*Please contact Aginode local sales for other specifications and lengths.

LANmark High Density Copper Patch Panel

Description

Aginode patch panels are designed to accommodate any of the Snap-In connectors in the LANmark product family (LANmark-7, LANmark-7A, LANmark-6A, LANmark-6, LANmark-5 and essential series). The patch panels adopt Clip-On system to ensure safe grounding and to provide a easy earthing of the screened connectors. The patch panel is designed for a 19-inch patching frame or cabinet mount with a height of 1U.

Characteristics

- High density design
- Modular 24 ports, supports up to to be checked, 42 units is 912 ports
- Suitable for open patching frames or cabinets with vertical cabling management
- Port label printed on the patch panel
- Rear cable management
- Designed for Screened and Unscreened SNAP-IN connectors
- Clip-on system for automatic earthing of screened connector

Dimensions

Height	1HU
Depth	75mm
Width	19in

Product List

Aginode ref.	Description
N521.671	LANmark 24 Modular Angled Patch Panel, Empty, Snap-In, Black
N521.672	Angled Blank Panel, 1HU, Black
N521.673	Angled Patch Panel Cover, Black
N521.678	Angled Wiring Groove 2HU, Black

Color Shutter

Aginode ref.	Description
N421.701BLA	LANmark Shutter, Black 100 Pcs/Set
N421.701BLU	LANmark Shutter, Blue 100 Pcs/Set
N421.701DGR	LANmark Shutter, Dark Grey 100 Pcs/Set
N421.701GRE	LANmark Shutter, Green 100 Pcs/Set
N421.701ORA	LANmark Shutter, Orange 100 Pcs/Set
N421.701RED	LANmark Shutter, Red 100 Pcs/Set
N421.701YEL	LANmark Shutter, Yellow 100 Pcs/Set
N421.701WHI	LANmark Shutter, White 100 Pcs/Set

LANmark-OF Plug & Play Patch Panels

Description

The Aginode MPO system is specifically designed to meet the requirements of current data centres: It allows for easy transfer to other applications limiting downtime and fast change in high density.

- MPO system consists of three subsystems: MPO cassette, MPO-MPO pre-terminated fibre cable and MPO fibre patch panel.
- The cassette provides the connection conversion between MPO-MPO pre-terminated fibre cable and active equipment: the pre-terminated fibre cable can be inserted at the back of the cassette, and the optical fibre is connected to the SC/LC connector at the front end inside the cassette. The cassette can be used in environments with a large number of ports and a wide variety of connectors.
- The MPO-MPO pre-terminated fibre cable is connected to the back of the MPO cassette and can be fixed on the MPO patch panel.

Characteristics

- Aginode's unique patch panel holds up to 4 MPO cassettes in 1HU
- 1U can accommodate up to 96-core fibres, and 4U can accommodate up to 288 LC or 72 MPO connectors
- Labelling at the front of patch panel for identification of connectors and patch cords
- With patch cord organiser in front so that the patch cord can be arranged within 1U to improve the density
- Sliding chassis of the patch panel for easy fixing of MPO-MPO pre-terminated fibre cables and MPO cassettes
- The tray of 4U patch panel can be pulled out from the front to facilitate the installation of cassette or adapters; it can also be opened from the rear to facilitate pre-terminated fibre cable installation
- The front end of patch panel can be fixed in two positions
- Blank plates can be chosen to keep a perfect look
- LC/SC/ST/FC adaptor plates are available
- Fibre splice and fibre cable gland are available

Dimensions

Height (unit)	1U	4U
Width	19in	19in
Depth	325mm	482mm

Product List

Aginode ref.	Description
N439.3MPP	LANmark-OF MPO Fibre Patch Panel, IHU, Supporting 4MPO Cassettes, Black
N439.9MPP	LANmark-OF Plug & Play Patch Panel, 4HU, Supporting 12MPO cassette, Black
N441.2MBP	LANmark-OF MPO Fibre Patch Panel Black Filler, 5 Pcs/Set
N890CH.091S	Splice tray 4x24 Cores with base and the upper cover

LANmark-OF Pre-terminated MPO Fiber Cables

Description

- The pre-terminated MPO cable adopts advanced Micro-Bundle cable with central reinforcing component and aramid yarn, enhancing the mechanical strength of the cable while reducing the outer diameter of the cable, and it can support up to 144 cores.
- Using low loss MPO connectors provides superior connection performance than industry level.
- Using flame retardant LSZH type cable or UL OFNP cable meets data center standards.
- Optional optical fibre types: Bend-insensitive multimode OM3/OM4/OM5, single-mode G.657.A1 OS2 (fully compatible with G.652.D).
- Smaller cable outer diameter helps reduce space occupancy within data centers such as bridge frame and cabinets, improving airflow while reducing the minimum bending radius of the cable, effectively reducing the risk of macro bending.
- The MPO fan-out is 0.94 m long, providing sufficient internal cable length for the LANmark-OF series products.
- MPO cable standard is METHOD B. Other common standards recognized by ISO/IEC 11801 and TIA 568 standards are available, such as METHOD A, METHOD B, METHOD C, etc.
- Male connectors are adpted for MPO cable by default, which is in line with 40G/100G data center upgrade requirements; customized female connector is available.

Characteristics

Aginode pre-terminated MPO cable is designed for high-speed data center connections and supports a wide range of network protocols including but not limited to 40G, 100G, 200G and 400G specified in IEEE standards, various MSA published protocols and storage standards such as Fibre Channel. By using low-loss MPO connectors, Aginode' MPO cable can support at least six MPO connections, supporting the connection model with intermediate wiring zones as described in TIA 942 and ISO/IEC 11801-5. Optimization of the fibre cable structure significantly reduces the outer diameter of the MPO cable while maintaining high tensile and compressive properties of the MPO cable. Factory pre-fabricated MPO cables are supplied with each core tested before delivery from the factory and the test report can be traced by the traceability code attached to the cable.

Aginode pre-terminated MPO optical cables can be connected to MPO-LC holder and MPO-MPO adapters, and the tightened MPO connector size tolerance provides more reliable connection performance when MPO connectors are docked.

- Meet GR-1435-Core test requirements.
- Fibre cable conforms to IEC 60794 standard.
- LSZH material, flammability meets IEC 60332-1 & IEC 50332-3-24, low smoke meets IEC 61034-2, and halogen free meets IEC 60754-1&2.
- Optical fibre meets IEC 60793 and ITU-T standards.
- MPO connectors meet IEC 61754-7-1.

Installation

Pre-terminated MPO fibre cable can be ordered separately with a removable traction handle for easy site installation. The standard traction handle provides minimum 450N installation tension, while pressure-resistant traction handle is available, with a built-in pressure-resistant protection tube, which is more suitable for complex site construction environment. The removable traction handle can be quickly removed after installation and it can be reinstalled, reducing construction waste and making it more suitable for sustainable environmental protection. Prefabricated traction handle can be ordered also, which comes with the MPO fibre cable when shipping from the factory. And the pressure-resistant traction handle can be ordered (optional, see page 145 for details).

Mechanical performance

Maxium pulling force IEC 60794-1	12 cores	450
	24 cores/48 cores	660
	72 cores/96 cores/ 144 cores	1000
Pressure resistance 1000N/mm IEC 60794-1-2-E3	12-144 cores	1000
Minimum bending radius mm	12-144 cores	dynamic 20x Static 10x

Fibre cable outer diameter mm	12 cores	24 cores	48 cores	96 cores
LSZH grade mm	3.6	5.4	5.4	6.7
UL OFNP Rating	4.5	7.5	7.7	10

Transmission Performance

Type	Multimode OM3/OM4		Singlemode OS2	
	Maximum value	Typical value	Maximum value	Typical value
Standard loss db	N/A	N/A	0.75	0.5
Low loss db	0.35	0.35	0.5	0.35
Ultra low loss dB	0.25	0.2	N/A	N/A

Numbering Rules

N14 [a] . [b][c][nn][d][e][xxx] - [f][g]

Description		
a: Fibre Type	4	OS2
	5	OM3
	7	OM4
	9	OM5
b: Polar	C	C polarity, Key up-Key down
	B	B Key up-Key down up
c: Jacket type	L	LSZH low smoke and halogen free sheath
	U	UL sheath
nn. Number of fibre cable cores	12	12-Core
	24	24-Core
	48	48-Core
	72	72-Core
	96	96-Core
	144	144-Core
d: Attenuation performance	S	Standard Loss-SM
	L	Low Loss - SM/MM
	U	Ultra-low loss-MM
e: Option of handle installation	P	No handle installed, suitable for removable handle
	A	Single-end mounted handle
	C	Single-end pressure-resistant handle
xxx : Trunk length	e.g. 005 = 5 m	
f: Jacket type	L	LSZH low smoke and halogen free sheath
	P	UL OFNP sheath
	G	GB31247-B1 sheath
g: Jacket Color	A	Aqua
	Y	Yellow
	L	Lemon green
	V	Violet

Product List - OFNP MPO Fiber Cables

Aginode ref.	Description	Grade
N144.BL12SP010-LY	LANmark-OF Pre-terminated MPO fibre cable Singlemode OS2 Method B Male MPO-male MPO 12-Core LSZH jacket Yellow Standard loss No traction handle 10m	OS2 G.657.A1
N144.BL24SP010-LY	LANmark-OF Pre-terminated MPO fibre cable Singlemode OS2 Method B Male MPO-male MPO 24-Core LSZH jacket Yellow Standard loss No traction handle 10m	OS2 G.657.A1
N144.BL96SA010-LY	LANmark-OF Pre-terminated MPO fibre cable Singlemode OS2 Method B Male MPO-male MPO 96-Core LSZH jacket Yellow Standard loss Single-end traction handle 10m	OS2 G.657.A1
N145.BL12LP010-LA	LANmark-OF Pre-terminated MPO fibre cable OM3 Method B Male MPO-male MPO 12 core LSZH jacket Aqua green Low loss No traction handle 10m	OM3
N145.CL12LA010-LA	LANmark-OF Pre-terminated MPO fibre cable OM3 Method C Male MPO-male MPO 12 core LSZH jacket Aqua green Low loss Single-end traction handle 10m	OM3
N145.BL24LP010-LA	LANmark-OF Pre-terminated MPO fibre cable OM3 Method B Male MPO-male MPO 24 core LSZH jacket Aqua green Low loss No traction handle 10m	OM3
N145.CL24LA010-LA	LANmark-OF Pre-terminated MPO fibre cable OM3 Method C Male MPO-male MPO 24 core LSZH jacket Aqua green Low loss Single-end traction handle 10m	OM3
N145.BL48LP010-LA	LANmark-OF Pre-terminated MPO fibre cable OM3 Method B Male MPO-male MPO 48 core LSZH jacket Aqua green Low loss No traction handle 10m	OM3
N145.CL48LA010-LA	LANmark-OF Pre-terminated MPO fibre cable OM3 Method C Male MPO-male MPO 48 core LSZH jacket Aqua green Low loss Single-end traction handle 10m	OM3
N145.CL96LA010-LA	LANmark-OF Pre-terminated MPO fibre cable OM3 Method C Male MPO-male MPO 96 core LSZH jacket Aqua green Low loss Single-end traction handle 10m	OM3
N147.BL12LP010-LA	LANmark-OF Pre-terminated MPO fibre cable OM4 Method B Male MPO-male MPO 12 core LSZH jacket Aqua green Low loss No traction handle 10m	OM4
N147.CL12LA010-LA	LANmark-OF Pre-terminated MPO fibre cable OM4 Method C Male MPO-male MPO 12 core LSZH jacket Aqua green Low loss Single-end traction handle 10m	OM4
N147.BL24LP010-LA	LANmark-OF Pre-terminated MPO fibre cable OM4 Method B Male MPO-male MPO 24 core LSZH jacket Aqua green Low loss No traction handle 10m	OM4
N147.CL24LA010-LA	LANmark-OF Pre-terminated MPO fibre cable OM4 Method C Male MPO-male MPO 24 core LSZH jacket Aqua green Low loss Single-end traction handle 10m	OM4
N147.CL48LA010-LA	LANmark-OF Pre-terminated MPO fibre cable OM4 Method C Male MPO-male MPO 48 core LSZH jacket Aqua green Low loss Single-end traction handle 10m	OM4
N147.CL96LA010-LA	LANmark-OF Pre-terminated MPO fibre cable OM4 Method C Male MPO-male MPO 96 core LSZH jacket Aqua green Low loss Single-end traction handle 10m	OM4
N149.BL12LP010-LL	Pre-terminated MPO fibre cable OM5 Method B Male MPO 12 core LSZH jacket Lemon Green Low loss Single-end traction handle 10m	OM5
N149.CL12LA010-LL	Pre-terminated MPO fibre cable OM5 Method C Male MPO 12 core LSZH jacket Lemon Green Low loss Single-end traction handle 10m	OM5
N149.BL24LP010-LL	LANmark-OF Pre-terminated MPO fibre cable OM5 Method B Male MPO 24 core LSZH jacket Lemon Green Low loss No traction handle 10m	OM5
N149.CL24LA010-LL	LANmark-OF Pre-terminated MPO fiber cable OM5 C-polarity Male MPO-male MPO 24 core LSZH jacket lime green Low loss Single-end traction handle 10m	OM5
N149.CL48LA010-LL	LANmark-OF Pre-terminated MPO fibre cable OM5 Method C Male MPO 48 core LSZH jacket Lemon Green Low loss Single-end traction handle 10m	OM5
N149.CL96LA010-LL	LANmark-OF Pre-terminated MPO fibre cable OM5 Method C Male MPO 96 core LSZH jacket Lemon Green Low loss Single-end traction handle 10m	OM5

*For specifications such as length, polarity and core number, please contact Aginode local sales

Product List - OFNP MPO Fiber Cables

Aginode ref.	Description	Grade
N144.BU12SP010-PY	LANmark-OF Pre-Terminated MPO fibre cable Singlemode OS2 Method B Male MPO-male MPO 12-core OFNP Yellow Standard loss No traction handle 10m	OS2 G.657.A1
N144.BU24SP010-PY	LANmark-OF Pre-Terminated MPO fibre cable Singlemode OS2 Method B Male MPO-male MPO 24-core OFNP Yellow Standard loss No traction handle 10m	OS2 G.657.A1
N144.BU96SA010-PY	LANmark-OF Pre-Terminated MPO fibre cable Singlemode OS2 Method B Male MPO-male MPO 96-core OFNP Yellow Standard loss Single-end traction handle 10m	OS2 G.657.A1
N145.BU12LP010-PA	LANmark-OF Pre-Terminated MPO fibre cable Singlemode OM3 Method B Male MPO-male MPO 12-core OFNP Aqua green Standard loss No traction handle 10m	OM3
N145.CU12LA010-PA	LANmark-OF Pre-Terminated MPO fibre cable Singlemode OM3 Method C Male MPO-male MPO 12-core OFNP Aqua green Standard loss Single-end traction handle 10m	OM3
N145.BU24LP010-PA	LANmark-OF Pre-Terminated MPO fibre cable Singlemode OM3 Method B Male MPO-male MPO 24-core OFNP Aqua green Standard loss No traction handle 10m	OM3
N145.CU24LA010-PA	LANmark-OF Pre-Terminated MPO fibre cable Singlemode OM3 Method C Male MPO-male MPO 24-core OFNP Aqua green Standard loss Single-end traction handle 10m	OM3
N145.BU48LP010-PA	LANmark-OF Pre-Terminated MPO fibre cable Singlemode OM3 Method B Male MPO-male MPO 48-core OFNP Aqua green Standard loss No traction handle 10m	OM3
N145.CU48LA010-PA	LANmark-OF Pre-Terminated MPO fibre cable Singlemode OM3 Method C Male MPO-male MPO 48-core OFNP Aqua green Standard loss Single-end traction handle 10m	OM3
N145.CU96LA010-PA	LANmark-OF Pre-Terminated MPO fibre cable Singlemode OM3 Method C Male MPO-male MPO 96-core OFNP Aqua green Standard loss Single-end traction handle 10m	OM3
N147.BU12LP010-PA	LANmark-OF Pre-Terminated MPO fibre cable Singlemode OM4 Method B Male MPO-male MPO 12-core OFNP Aqua green Standard loss No traction handle 10m	OM4
N147.CU12LA010-PA	LANmark-OF Pre-Terminated MPO fibre cable Singlemode OM4 Method C Male MPO-male MPO 12-core OFNP Aqua green Standard loss Single-end traction handle 10m	OM4
N147.BU24LP010-PA	LANmark-OF Pre-Terminated MPO fibre cable Singlemode OM4 Method B Male MPO-male MPO 24-core OFNP Aqua green Standard loss No traction handle 10m	OM4
N147.CU24LA010-PA	LANmark-OF Pre-Terminated MPO fibre cable Singlemode OM4 Method C Male MPO-male MPO 24-core OFNP Aqua green Standard loss Single-end traction handle 10m	OM4
N147.CU48LA010-PA	LANmark-OF Pre-Terminated MPO fibre cable Singlemode OM4 Method C Male MPO-male MPO 48-core OFNP Aqua green Standard loss Single-end traction handle 10m	OM4
N147.CU96LA010-PA	LANmark-OF Pre-Terminated MPO fibre cable Singlemode OM4 Method C Male MPO-male MPO 96-core OFNP Aqua green Standard loss Single-end traction handle 10m	OM4
N149.BL12LP010-LL	Pre-terminated MPO fibre cable OM5 Method B Male MPO 12 core LSZH jacket Lemon Green Low loss No traction handle 10m	OM5
N149.CL12LA010-LL	Pre-terminated MPO fibre cable OM5 Method C Male MPO 12 core LSZH jacket Lemon Green Low loss Single-end traction handle 10m	OM5
N149.BL24LP010-LL	LANmark-OF Pre-terminated MPO fibre cable OM5 Method B Male MPO 24 core LSZH jacket Lemon Green Low loss No traction handle 10m	OM5
N149.CL24LA010-LL	LANmark-OF Pre-terminated MPO fibre cable OM5 Method C Male MPO 24 core LSZH jacket Lemon Green Low loss Single-end traction handle 10m	OM5
N149.CL48LA010-LL	LANmark-OF Pre-terminated MPO fibre cable OM5 Method C Male MPO 48 core LSZH jacket Lemon Green Low loss Single-end traction handle 10m	OM5
N149.CL96LA010-LL	LANmark-OF Pre-terminated MPO fibre cable OM5 Method C Male MPO 96 core LSZH jacket Lemon Green Low loss Single-end traction handle 10m	OM5

*For specifications such as length, polarity and core number, please contact Aginode local sales

LANmark-OF MPO Cassette

Description

- The MPO cassette provides SC and LC connections and can be swiftly installed on the MPO fibre patch panel.
- The insertion loss of LANmark-OF MPO cassette is 0.5dB, the Standard insertion loss is 0.5dB for MM and 0.75 for SM according to standard IEC 61300-3-45.
- The insertion loss of LANmark-OF Low Loss MPO cassette is 0.35dB for multi-mode and 0.5dB for single-mode, according to standard IEC 61300-3-45.
- There are three types of connection for cassettes, namely, straight connection, cross connection and universal polarity.
- MPO connection has two types: male and female.
- LC in the cassette includes 12F and 24F.
- It's divided into multimode and singlemode and multimode is divided into OM4/OM5.

Insertion Loss Performance

Multimode Low Loss MPO Cassette Maximum Insertion Loss dB	0.5
Multimode Ultra low loss MPO Cassette Maximum Insertion Loss dB	0.35
Singlemode Low Loss MPO Cassette Maximum Insertion Loss dB	0.75
Singlemode Ultra low loss MPO Cassette Maximum Insertion Loss dB	0.5

Product List

Aginode ref.	Description
N441.5L12LC4FS	LANmark-OF MPO Plug&Play- Module ultra low loss 12 LC Multimode Aqua Female straight
N441.5L12LC0FS	LANmark-OF MPO Plug&Play -Module ultra low loss 12 LC Singlemode OS2 Blue Female straight
N441.5L12LC4FC	LANmark-OF MPO Plug&Play- Module ultra low loss 12 LC Multimode Aqua Female cross
N441.5L12LC0FC	LANmark-OF MPO Plug&Play -Module ultra low loss 12 LC Singlemode OS2 Blue Female cross
N441.5L12LC4FU	LANmark-OF MPO Cassette ultra low loss 12 LC Multimode OS2 Aqua green Female universal polarity
N441.5L12LC0FU	LANmark-OF MPO Cassette ultra low loss 12 LC Singlemode OS2 Blue Female universal polarity
N441.5M12LC4FS	LANmark-OF MPO Plug&Play- Module low loss 12 LC Multimode Aqua Female straight
N441.5M12LC0FS	LANmark-OF MPO Plug&Play -Module low loss 12 LC Singlemode OS2 Blue Female straight
N441.5M12LC4FC	LANmark-OF MPO Plug&Play- Module low loss 12 LC Multimode Aqua Female cross
N441.5M12LC0FC	LANmark-OF MPO Plug&Play- Module low loss 12 LC Multimode OS2 Blue Female cross
N441.5L24LC4FU	LANmark-OF MPO Cassette low loss 12 LC Multimode OS2 Aqua green Female universal polarity
N441.5L24LC0FU	LANmark-OF MPO Cassette low loss 12 LC Singlemode OS2 Blue Female universal polarit
N441.5M24LC4FS	LANmark-OF MPO Cassette ultra low loss 24 LC Multimode Aqua green Female straight
N441.5L24LC0FS	LANmark-OF MPO Plug&Play- Module ultra low loss 24 LC Singlemode Blue Female straight
N441.5L24LC4FC	LANmark-OF MPO Plug&Play- Module ultra low loss 24 LC Multimode Aqua Female cross
N441.5L24LC0FC	LANmark-OF MPO Plug&Play- Module ultra low loss 24 LC Singlemode Blue Female cross
N441.5L24LC4FU	LANmark-OF MPO Cassette ultra low loss 24 LC Multimode Aqua green Female universal polarity
N441.5L24LC0FU	LANmark-OF MPO Cassette ultra low loss 24 LC Singlemode Blue Female universal polarity
N441.5M24LC4FS	LANmark-OF MPO Plug&Play- Module low loss 24 LC Multimode Aqua Female straight
N441.5M24LC0FS	LANmark-OF MPO Plug&Play- Module low loss 24 LC Singlemode Blue Female straight
N441.5M24LC4FC	LANmark-OF MPO Plug&Play- Module low loss 24 LC Multimode Aqua Female cross
N441.5M24LC0FC	LANmark-OF MPO Plug&Play- Module low loss 24 LC Singlemode Blue Female cross
N441.5M24LC4FU	LANmark-OF MPO Cassette low loss 24 LC Multimode Aqua green Female universal polarity
N441.5M24LC0FU	LANmark-OF MPO Cassette low loss 24 LC Singlemode Blue Female universal polarity

*Please contact Aginode local sales for MPO selection

LANmark-OF LC Adapter Plates

Description

- The LC adaptor plates are designed for a fast installation in the Aginode Plug & Play panels, providing a variety of options based on the fibre type and the port number.
  By Type: 6 duplex LC and 12 duplex LC.
  By Fibre type: singlemode and multimode.
  By Connector type: UPC and APC.
- Up to 4 adaptor plates in Aginode Plug & Play 1U patch panel.

Application

- Suitable for singlemode and multimode products
- Suitable for Aginode Plug & Play patch panel
- Up to 4 adaptor plates in 1U patch panel

Product List

Aginode ref.	Description
N205.ALC12MMA	LANmark-OF Adaptor Plate 12 LC Multimode Aqua
N205.ALC24MMA	LANmark-OF Adaptor Plate 24 LC Multimode Aqua
N205.ALC12SMB	LANmark-OF Adaptor Plate 12 LC Singlemode Blue
N205.ALC24SMB	LANmark-OF Adaptor Plate 24 LC Singlemode Blue
N205.ALC12SAG	LANmark-OF Adaptor Plate 12 LC Singlemode APC Green
N205.ALC24SAG	LANmark-OF Adaptor Plate 24 LC Singlemode APC Green

LANmark-OF MPO Adaptor Plate

Description

Aginode MPO adaptor panel is designed for installation in Aginode MPO Plug&Play patch panel. Holds up to 4 MPO adaptor plates in it. A MPO adaptor plate contains 6 MPO adaptors.

Application

Two adaptor plate types are available: Key up-Key up and Key up-Key down to connect Male and Female MPO adaptors.

Product List

Aginode ref.	Description
N205.AMTP6MMUU	LANmark-OF MPO Adaptor Plate, Key up-Key up
N205.AMTP6MMUD	LANmark-OF MPO Adaptor Plate, Key up-Key down
N205.AMPO6SMUD	LANmark-OF MPO Adaptor Plate, Key up-Key down

LANmark-OF MPO/F-4DLC Pre-Terminated Fiber Assmbly

Description

- Suitable for data centers
- Factory pre-terminated MTP/F-4X UniBoot DLC
- Conversion of 4x10G at the front of the patch pane to 1x40G
- The length between MTP and branch can be customized according to user's needs

Characteristics

- LC terminal adopts UniBoot structure
- Bending insensitive fiber with bend radius of only 40mm
- Max. insertion loss of MPO multimode is 0.35dB, and max. insertion loss of singlemode is 0.5dB
- Optical fibre type:Singlemode OS2/Multimode OM3/OM4

Environmental and mechanical performance

Nominal outer diameter	3.0mm
Flame retardancy according	IEC 60332-3&-1
Minimum bend radius	40 mm
Storage	-40°C to 70°C
Working temperature	-10°C to 60

Product List

Aginode ref.	Description	Optical fiber grade
N127.5BLBA5	N127.5BLBA5 LANmark-OF MPO/F-4X DLC Fan-out Patch Cord, Fan-out 1.5m, OM3, 5m, Aqua	OM3
N127.7BLCA5	N127.7BLBA5 LANmark-OF MPO/F-4X DLC Fan-out Patch Cord, Fan-out 2m, OM4, 5m, Aqua	OM4
N127.4BLAY5	N127.4BLAY5 LANmark-OF MPO/F-4X DLC Fan-out Patch Cord, Fan-out 1m, OS2, 5m, Yellow	OS2 G.657.A1

*Please contact Aginode local sales for other specifications and lengths.

LANmark-OF MPO-6DLC Pre-Terminated Fibre Assembly

Description

Aginode pre-terminated MPO-LC fan-out patch cord enables high density plug-in, rapid deployment, and connectivity of SAN and LAN within the data centre. The density of device ports is increasing daily. Each blade chassis can accommodate up to 18 blade server slots, and each slot supports 48 optical ports (96-core LC). This is a big challenge for cabling management. The flexible structure of Aginode MPO-LC fan-out patch cord makes cabling management easy and easily controlled. One end of the MPO-LC fan-out patch cord is Female MPO connector, and the other end is the LC UniBoot duplex connector with 6 staggered fan-out.

Characteristics

- Factory pre-terminated MPO-LC fibre fan-out patch cord
- Staggered and flexible fan-out structure
- 12-Core
- Fibre type: singlemode OS2, OM3 or OM4
- Bending insensitive fibre with minimum bending radius

Environmental and Mechanical Performance

Nominal outer diameter	3.65mm
Minimum bending radius of trunk	40mm
Min bending radius LC fan-out patch cord	7.5mm
Operating temperature	0~60°C
Storage Temperature	-20~60°C
Deformation stress	IEC60794-1-E3
Impact Resistance：≥30cm	IEC60794-1-E4
Flame retardant	IEC60332-1&IEC60332-3

Insertion Loss Performance	IEC61300-3-45 Max. Value	Typical value
Multimode Low Loss MPO	0.35dB	0.15dB
Singlemode Low Loss MPO	0.35dB	0.15dB

Numbering Rules

N129. B V LLL Z 006 C

Description	
B: Fibre type	5：OM3
	7：OM4
	4：SM OS2
V: Low loss	Fixed
LLL: trunk length	For example: LLL = 020 = 2m
Z: Fan-out mode	L = left offset
	R = right offset
	E = parallel fan-out
C: Jacket Color	A: Aqua (OM3/OM4)
	Y: Yellow (SM OS2)

Product List

Aginode ref.	Description	Grade
N129.5V100L006A	LANmark-OF MPO-LC Fan-out Patch Cord, Low Loss, OM3, 10m, Left Offset, Aqua	OM3
N129.7V100R006A	LANmark-OF MPO-LC Fan-out Patch Cord, Low Loss, OM4, 10m, Right Offset, Aqua	OM4
N129.4V100E006Y	LANmark-OF MPO-LC Fan-out Patch Cord, Low Loss, OS2, 10m, Parallel Fan Out, Yellow	OS2 G.657.A1

LANmark-OF Fibre Patch Cord

Application

Aginode LANmark-OF 40G/100G/400G fibre patch cord has been designed for indoor application to support 40G/100G/400G Ethernet applications such as 40GBase-SR4, 100GBase-SR4 and 400GBase-SR4.2.

Typical installation environments:

- Connections from patch panel to equipment in cabinet
- Cross connections in data centres

Aginode LANmark-OF MPO patch cord is with a Key up-Key up design. The patch cords with smaller diameter are designed to save space and are suitable for high-density environment in data centre. The length between the two MPO connectors can be customized flexibly according to actual requirements.

Characteristics

- Suitable for data centres
- OM3, OM4 and OM5 are available
- Typical insertion loss is 0.15db, maximum is less than 0.35db (IEC60794-20)
- LSZH outer jacket

Standard

- IEC61300-3-45
- IEC 60794-20

Numbering Rules

N125. a b L e xx

Description	
B: Fibre type	5：OM3
	7：OM4
b: Fibre type	S: straight, Female-Female
L: transport performance	regular, Low loss
e: Color	A：jacket Aqua green
	V：jacket Bright red
	L：jacket Lemon green
XX	Length: for example: 1=1.0m, 10=10.0m

Environmental and Mechanical Performance

Nominal outer diameter	3.0mm
Minimum bend radius	40mm
Operating temperature	0~60°C
Storage Temperature	-20~60°C
Deformation stress	IEC60794-1-E3
Impact Resistance	IEC60794-1-E4
Flame retardant	IEC60332-1& IEC60332-3

Product List

Aginode ref.	Description
N125.5SLA10	LANmark-OF MPO Fibre Patch Cord OM3 Straight, Female-Female, Aqua, 10m
N125.7SLA10	LANmark-OF MPO Fibre Patch Cord OM4 Straight, Female-Female, Aqua, 10m
N125.9SLL10	LANmark-OF MPO Fibre Patch Cord OM5 Straight, Female-Female, Lemon green, 10m

*Please contact Aginode local sales for other specifications and lengths.

LANmark-OF MTP-MTP PRO Patch Cords

Application

Aginode MTP-MTP PRO patch cord, is mainly used in data centers and other applications. Unlike the traditional MTP-MTP patch cord, which is customized in the factory according to customer demand and needs to define clearly the gender and polarity of the product, MTP PRO patch cord is with female - female and Key up - Key up design, which is simple for factory production. After arriving at the site, the installation tool will be used to change the female connection to the male connection, which is convenient for both factory production and customers.

Features

- Maximum insertion loss of patch cords is 0.25 dB, typically is 0.15 dB
- Fibre cable sheath is LSZH
- Product is female-female
- Polarity can be changed and male-female conversion is available on site
- Fibre cable type OM4
- Color of cable outer sheath is aqua and violet respectively

Standards

- ISO/IEC 11801

Product List

Aginode ref.	Description
N125.7GGA 10	LANmarkOF Patch Cord Female MTP PRO Female MTP PRO OM4 LSZH 10m Aqua
N125.7GGV 10	LANmarkOF Patch Cord Female MTP PRO Female MTP PRO OM4 LSZH 10m Violet

LANmark-OF NSPACE MTP-MTP Fibre Assembly

Description

- Pre-terminated trunck cable adopts advanced Miro-Bundle cable, reducing outer diameter of cable at the same time
- The significant reduction of the outer diameter of fibre cable helps to reduce its occupancy in the data center, improve the airflow, reduce the weight of the fibre cable and reduce the requirement for the bridge
- The fibre is bend-resistant and has small bending radius
- MTP connectors use standard MTP male connectors that mate with the female connectors on standard MPO cassette
- Fibre cable outer sheath LSZH in accordance with IEC 60332-1 and IEC 60332-3C, or Plenum in accordance with OFNP standards
- Maximum insertion loss of MTP connector is 0.35 dB, conforming to standard IEC 61300-3-45
- Maximum return loss of MTP connector is 25dB for multimode and 45dB for singlemode, conforming to standard IEC 61300-3-45
- Pre-terminated fibre cable can be delivered with or without traction handle. The traction handle is available with/without bellows and is detachable and reusable. The pulling force of the handle can reach at least 450N. Without detachable pulling eye, it shall be installed on site (optional, see page 147 for details)
- Product labels with bar code to trace product

Features

- Factory pre-terminated assembly MTP-MTP trunk fibre cables
- Convenient installation with flexible fan-out design
- Small diameter fibre cables that reduce the space occupancy of data center
- Optical fibre polarity: Method B and Method C
- Number of optical fibre cores: 12~96
- Traction device with bellows inside has certain pressure resistance property
- Fibre type: OM3/OM4/OM5/OS2
- Compatible with LANmark-OF MPO cassette and patch panel
- 100% tested before leaving the factory

Fibre optic transmission characteristics

Optical fibre transmission characteristics	Attenuation db/km	
OM3/OM4	2.8 @ 850nm	1.0 @ 1300nm
OS2	0.35 @1310nm	0.21 @1550nm

LSZH Fibre Cable Features

Number of cable cores	12-Core	24/48-Core	96-Core
Cable Outer Diameter (mm)	3.65±0.2	5.4±0.3	6.4±0.3
Cable weight kg/km	18	30	36
Maximum Force N	800	1000	1000
Resistance N/100mm	1000	1000	1000
Minimum bending radius (dynamic) mm	73	108	128
Minimum bending radius (static) mm	36.5	54	64

OFNP Fibre Cable Features

Number of cable cores	12-Core	24/48-Core	96-Core
Cable Outer Diameter (mm)	4.5±0.3	7.5±0.3	10.0±0.3
Cable weight kg/km	18	50	96
Maximum Force N	500	660	1000
Resistance N/100mm	1000	1000	1000
Minimum bending radius (dynamic) mm	90	150	200
Minimum bending radius (static) mm	45	75	100

Numbering Rules

N14 [a] . [b] [nn] [MM] [C] [xxx] [d]

Description		
a: Fibre Type	4	OS2
	5	OM3
	7	OM4
	9	OM5
b: Polarity and sheath type	C	Method C, Key up-Key down
	B	B Key up-Key down up
	P	Method C, UL OFNP sheath
	O	Method B, UL OFNP sheath
nn. Number of fibre cable cores	12	12-Core
	24	24-Core
	48	48-Core
	72	72-Core
	96	96-Core
	144	144-Core
c: Pulling eye Options	P	No traction handle, suitable for detachable handle
	E	Single-end detachable pulling eye
xxx : Trunk length	e.g. 005 = 5 m	
g: Jacket Color	A	Aqua
	Y	Yellow
	L	Lemon green
	V	Violet

Product List

OFNP-with pulling eye

Aginode ref.	Description	Grade
N144.O12MME005Y	LANmark-OF ENSPACE Method B Fibre Assembly OS2 12 LC Low Loss 5m Male-male OFNP Yellow	OS2 G.657.A1
N144.O24MME005Y	LANmark-OF ENSPACE Method B Fibre Assembly OS2 24 LC Low Loss 5m Male-male OFNP Yellow	OS2 G.657.A1
N144.O48MME005Y	LANmark-OF ENSPACE Method B Fibre Assembly OS2 48 LC Low Loss 5m Male-male OFNP Yellow	OS2 G.657.A1
N144.O96MME005Y	LANmark-OF ENSPACE Method B Fibre Assembly OS2 96 LC Low Loss 5m Male-male OFNP Yellow	OS2 G.657.A1
N144.O144MME005Y	LANmark-OF ENSPACE Method B Fibre Assembly OS2 144 LC Low Loss 5m Male-male OFNP Yellow	OS2 G.657.A1
N144.P12MME005Y	LANmark-OF ENSPACE Method C Fibre Assembly OS2 12 LC Low Loss 5m Male-male OFNP Yellow	OS2 G.657.A1
N144.P24MME005Y	LANmark-OF ENSPACE Method C Fibre Assembly OS2 24 LC Low Loss 5m Male-male OFNP Yellow	OS2 G.657.A1
N144.P48MME005Y	LANmark-OF ENSPACE Method C Fibre Assembly OS2 48 LC Low Loss 5m Male-male OFNP Yellow	OS2 G.657.A1
N144.P96MME005Y	LANmark-OF ENSPACE Method C Fibre Assembly OS2 96 LC Low Loss 5m Male-male OFNP Yellow	OS2 G.657.A1
N144.P144MME005Y	LANmark-OF ENSPACE Method C Fibre Assembly OS2 144 LC Low Loss 5m Male-male OFNP Yellow	OS2 G.657.A1
N145.O12MME005A	LANmark-OF ENSPACE Method B Fibre Assembly OM3 12 LC Low Loss 5m Male-male OFNP Aqua	OM3
N145.O24MME005A	LANmark-OF ENSPACE Method B Fibre Assembly OM3 24 LC Low Loss 5m Male-male OFNP Aqua	OM3
N145.O48MME005A	LANmark-OF ENSPACE Method B Fibre Assembly OM3 48 LC Low Loss 5m Male-male OFNP Aqua	OM3
N145.O96MME005A	LANmark-OF ENSPACE Method B Fibre Assembly OM3 96 LC Low Loss 5m Male-male OFNP Aqua	OM3
N145.O144MME005A	LANmark-OF ENSPACE Method B Fibre Assembly OM3 144 LC Low Loss 5m Male-male OFNP Aqua	OM3
N145.P12MME005A	LANmark-OF ENSPACE Method C Fibre Assembly OM3 12 LC Low Loss 5m Male-male OFNP Aqua	OM3
N145.P24MME005A	LANmark-OF ENSPACE Method C Fibre Assembly OM3 24 LC Low Loss 5m Male-male OFNP Aqua	OM3
N145.P48MME005A	LANmark-OF ENSPACE Method C Fibre Assembly OM3 48 LC Low Loss 5m Male-male OFNP Aqua	OM3
N145.P96MME005A	LANmark-OF ENSPACE Method C Fibre Assembly OM3 96 LC Low Loss 5m Male-male OFNP Aqua	OM3
N145.P144MME005A	LANmark-OF ENSPACE Method C Fibre Assembly OM3 144 LC Low Loss 5m Male-male OFNP Aqua	OM3
N147.O12MME005A	LANmark-OF ENSPACE Method B Fibre Assembly OM4 12 LC Low Loss 5m Male-male OFNP Aqua	OM4
N147.O24MME005A	LANmark-OF ENSPACE Method B Fibre Assembly OM4 24 LC Low Loss 5m Male-male OFNP Aqua	OM4
N147.O48MME005A	LANmark-OF ENSPACE Method B Fibre Assembly OM4 48 LC Low Loss 5m Male-male OFNP Aqua	OM4
N147.O96MME005A	LANmark-OF ENSPACE Method B Fibre Assembly OM4 96 LC Low Loss 5m Male-male OFNP Aqua	OM4
N147.O144MME005A	LANmark-OF ENSPACE Method B Fibre Assembly OM4 144 LC Low Loss 5m Male-male OFNP Aqua	OM4
N147.P12MME005A	LANmark-OF ENSPACE Method C Fibre Assembly OM4 12 LC Low Loss 5m Male-male OFNP Aqua	OM4
N147.P24MME005A	LANmark-OF ENSPACE Method C Fibre Assembly OM4 24 LC Low Loss 5m Male-male OFNP Aqua	OM4
N147.P48MME005A	LANmark-OF ENSPACE Method C Fibre Assembly OM4 48 LC Low Loss 5m Male-male OFNP Aqua	OM4
N147.P96MME005A	LANmark-OF ENSPACE Method C Fibre Assembly OM4 96 LC Low Loss 5m Male-male OFNP Aqua	OM4
N147.P144MME005A	LANmark-OF ENSPACE Method C Fibre Assembly OM4 144 LC Low Loss 5m Male-male OFNP Aqua	OM4
N149.O12MME005L	LANmark-OF ENSPACE Method B Fibre Assembly OM5 12 LC Low Loss 5m Male-male OFNP Lemon green	OM5
N149.O24MME005L	LANmark-OF ENSPACE Method B Fibre Assembly OM5 24 LC Low Loss 5m Male-male OFNP Lemon green	OM5
N149.O48MME005L	LANmark-OF ENSPACE Method B Fibre Assembly OM5 48 LC Low Loss 5m Male-male OFNP Lemon green	OM5
N149.O96MME005L	LANmark-OF ENSPACE Method B Fibre Assembly OM5 96 LC Low Loss 5m Male-male OFNP Lemon green	OM5
N149.O144MME005L	LANmark-OF ENSPACE Method B Fibre Assembly OM5 144 LC Low Loss 5m Male-male OFNP Lemon green	OM5
N149.P12MME005L	LANmark-OF ENSPACE Method C Fibre Assembly OM5 12 LC Low Loss 5m Male-male OFNP Lemon green	OM5
N149.P24MME005L	LANmark-OF ENSPACE Method C Fibre Assembly OM5 24 LC Low Loss 5m Male-male OFNP Lemon green	OM5
N149.P48MME005L	LANmark-OF ENSPACE Method C Fibre Assembly OM5 48 LC Low Loss 5m Male-male OFNP Lemon green	OM5
N149.P96MME005L	LANmark-OF ENSPACE Method C Fibre Assembly OM5 96 LC Low Loss 5m Male-male OFNP Lemon green	OM5
N149.P144MME005L	LANmark-OF ENSPACE Method C Fibre Assembly OM5 144 LC Low Loss 5m Male-male OFNP Lemon green	OM5

LSZH-with pulling eye

Aginode ref.	Description	Grade
N144.B12MME005Y	LANmark-OF ENSPACE Method B Fibre Assembly OS2 12 LC Low Loss 5m Male-male LSZH Yellow	OS2 G.657.A1
N144.B24MME005Y	LANmark-OF ENSPACE Method B Fibre Assembly OS2 24 LC Low Loss 5m Male-male LSZH Yellow	OS2 G.657.A1
N144.B48MME005Y	LANmark-OF ENSPACE Method B Fibre Assembly OS2 48 LC Low Loss 5m Male-male LSZH Yellow	OS2 G.657.A1
N144.B96MME005Y	LANmark-OF ENSPACE Method B Fibre Assembly OS2 96 LC Low Loss 5m Male-male LSZH Yellow	OS2 G.657.A1
N144.C12MME005Y	LANmark-OF ENSPACE Method C Fibre Assembly OS2 12 LC Low Loss 5m Male-male LSZH Yellow	OS2 G.657.A1
N144.C24MME005Y	LANmark-OF ENSPACE Method C Fibre Assembly OS2 24 LC Low Loss 5m Male-male LSZH Yellow	OS2 G.657.A1
N144.C48MME005Y	LANmark-OF ENSPACE Method C Fibre Assembly OS2 48 LC Low Loss 5m Male-male LSZH Yellow	OS2 G.657.A1
N144.C96MME005Y	LANmark-OF ENSPACE Method C Fibre Assembly OS2 96 LC Low Loss 5m Male-male LSZH Yellow	OS2 G.657.A1
N145.B12MME005A	LANmark-OF ENSPACE Method B Fibre Assembly OM3 12 LC Low Loss 5m Male-male LSZH Yellow	OM3
N145.B24MME005A	LANmark-OF ENSPACE Method B Fibre Assembly OM3 24 LC Low Loss 5m Male-male LSZH Yellow	OM3
N145.B48MME005A	LANmark-OF ENSPACE Method B Fibre Assembly OM3 48 LC Low Loss 5m Male-male LSZH Yellow	OM3
N145.B96MME005A	LANmark-OF ENSPACE Method B Fibre Assembly OM3 96 LC Low Loss 5m Male-male LSZH Yellow	OM3
N145.C12MME005A	LANmark-OF ENSPACE Method C Fibre Assembly OM3 12 LC Low Loss 5m Male-male LSZH Yellow	OM3
N145.C24MME005A	LANmark-OF ENSPACE Method C Fibre Assembly OM3 24 LC Low Loss 5m Male-male LSZH Yellow	OM3
N145.C48MME005A	LANmark-OF ENSPACE Method C Fibre Assembly OM3 48 LC Low Loss 5m Male-male LSZH Yellow	OM3
N145.C96MME005A	LANmark-OF ENSPACE Method C Fibre Assembly OM3 96 LC Low Loss 5m Male-male LSZH Yellow	OM3
N147.B12MME005A	LANmark-OF ENSPACE Method B Fibre Assembly OM4 12 LC Low Loss 5m Male-male LSZH Yellow	OM4
N147.B24MME005A	LANmark-OF ENSPACE Method B Fibre Assembly OM4 24 LC Low Loss 5m Male-male LSZH Yellow	OM4
N147.B48MME005A	LANmark-OF ENSPACE Method B Fibre Assembly OM4 48 LC Low Loss 5m Male-male LSZH Yellow	OM4
N147.B96MME005A	LANmark-OF ENSPACE Method B Fibre Assembly OM4 96 LC Low Loss 5m Male-male LSZH Yellow	OM4
N147.C12MME005A	LANmark-OF ENSPACE Method C Fibre Assembly OM4 12 LC Low Loss 5m Male-male LSZH Yellow	OM4
N147.C24MME005A	LANmark-OF ENSPACE Method C Fibre Assembly OM4 24 LC Low Loss 5m Male-male LSZH Yellow	OM4
N147.C48MME005A	LANmark-OF ENSPACE Method C Fibre Assembly OM4 48 LC Low Loss 5m Male-male LSZH Yellow	OM4
N147.C96MME005A	LANmark-OF ENSPACE Method C Fibre Assembly OM4 96 LC Low Loss 5m Male-male LSZH Yellow	OM4
N149.B12MME005L	LANmark-OF ENSPACE Method B Fibre Assembly OM5 12 LC Low Loss 5m Male-male LSZH Lemon green	OM5
N149.B24MME005L	LANmark-OF ENSPACE Method B Fibre Assembly OM5 24 LC Low Loss 5m Male-male LSZH Lemon green	OM5
N149.B48MME005L	LANmark-OF ENSPACE Method B Fibre Assembly OM5 48 LC Low Loss 5m Male-male LSZH Lemon green	OM5
N149.B96MME005L	LANmark-OF ENSPACE Method B Fibre Assembly OM5 96 LC Low Loss 5m Male-male LSZH Lemon green	OM5
N149.C12MME005L	LANmark-OF ENSPACE Method C Fibre Assembly OM5 12 LC Low Loss 5m Male-male LSZH Lemon green	OM5
N149.C24MME005L	LANmark-OF ENSPACE Method C Fibre Assembly OM5 24 LC Low Loss 5m Male-male LSZH Lemon green	OM5
N149.C48MME005L	LANmark-OF ENSPACE Method C Fibre Assembly OM5 48 LC Low Loss 5m Male-male LSZH Lemon green	OM5
N149.C96MME005L	LANmark-OF ENSPACE Method C Fibre Assembly OM5 96 LC Low Loss 5m Male-male LSZH Lemon green	OM5

* Please contact Aginode local sales for other specifications and lengths.
* See page 147 for Detachable Pulling Eye

LANmark-OF ENSPACE High Density Patch Panel

Description

The LANmark-OF ENSPACE high-density patch panel is suitable for use in server cabinet or patch cord area in medium-sized data centers.

1U patch panel contains two-layer trays with 4 modules per tray and total of 8 modules, up to 96 duplex LC or 48 MTP connectors. 2U patch panel contains four-layer trays with 4 modules per tray and total of 16 modules, up to 192 duplex LC or 96 MTP connectors.

The tray in the patch panel can be pulled out from the rear end, and there are fasteners at the rear end to fix Gland, making it easy to install and fix pre-terminated optical cables.

The front door of the patch panel is labeled for easy identification and management of the products inside the patch panel.

Patch panel matches with our ENSPACE cassette, including the MTP-LC module box, the MTP adapter module box, and LC adapter module box.

Features

- Easy installation of the modular box, either from the front or from the rear
- Layered installation, easy to manage
- Labels on the front of each tray for easy management
- Pre-terminated cable fixing brackets for easier installation

Product List

Aginode ref.	Description	Nominal weight kg	Depth mm
NSPACE.PPHD1U	LANmark-OF ENSPACE High Density Patch Panel 1U supports 8 MTP cassette Black	4.8	493
NSPACE.PPHD2U	LANmark-OF ENSPACE High Density Patch Panel 2U supports 16 MTP cassette Black	7.3	493

LANmark-OF ENSPACE Ultra High Density Patch Panel

Description

LANmark-OF ENSPACE system is developed especially for the requirements of current data centres. This ultra high-density patch panel also has a integrated optical patch cord sorting unit, providing users with a better installation experience. It can quickly adapt to the change of other high-density applications with limited down time.

Characteristics

- Optional ENSPACE patch panel height: 1HU/2HU/4HU
- 3 individually sliding trays per 1U for maximum flexibility during installation, application and maintenance
- Aginode unique ENSPACE patch panel design supports up to 12 cassettes within 1 HU
- Depending on the type of cassette: up to 144LC or 72MTP in 1HU; up to 288LC or 144MTP in 2 HU; up to 576LC or 288MTP in 4HU
- Each sliding tray has a separate cable sorting unit
- 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
- The panels are designed for installation inside 19 inch enclosures
- Micro-bundle fibre cables are required

Product List

Aginode ref.	Description	Nominal weight kg	Depth mm
NSPACE.PP1U	LANmark-OF ENSPACE Fibre High Density Patch Panel, 1HU, Supporting 12 ENSPACE Cassettes, Black	5.1	526
NSPACE.PP2U	LANmark-OF ENSPACE Fibre High Density Patch Panel, 2HU, Supporting 24 ENSPACE Cassettes, Black	7.2	526
NSPACE.PP4U	LANmark-OF ENSPACE Fibre High Density Patch Panel, 4HU, Supporting 48 ENSPACE Cassettes, Black	15.2	526

LANmark-OF ENSPACE MTP-LC Cassette

Description

- LANmark-OF ENSPACE MTP-LC Cassette have 3 quad LC connectors in the front and 1 MTP connector in the rear to connect to a fibre assembly
- ENSPACE MTP-LC cassette can be easily installed into ENSPACE patch panel. Up to 12 cassette 144-core LC in1U patch panel
- The maxmium insertion loss of an ENSPACE cassette is 0.5dB according to standard IEC 61300-3-45, the typical loss value is 0.35dB
- ENSPACE MTP-LC cassette has standard un-pinned (Female) MTP connectors matching perfectly the male MTP pre-term cable
- Three types of connection straight, cross and universal polarity
- Fibre types : OM4/OM5/OS2
- Saves time to install and update as all connectors are factory terminated and tested

Characteristics

- ENSPACE MTP-LC cassettes have low loss connectors
- The cassette can be conveniently installed in the patch panel from the rear or front
- High density: Up to 12 MTP cassettes in 1U
- Pre-terminated and 100% tested in factory

Product List

Aginode ref.	Description
NSPACE.MSLC12AS	LANmark-OF ENSPACE MTP Fibre Cassette 12 LC, Straight Multimode, OM4, Aqua
NSPACE.MCLC12AS	LANmark-OF ENSPACE MTP Fibre Cassette 12 LC, Crossed Multimode, OM4, Aqua
NSPACE.MULC12AS	LANmark-OF ENSPACE MTP Fibre Cassette 12 LC, Universal Polarity Multimode, OM4, Aqua
NSPACE.MSLC12LS	LANmark-OF ENSPACE MTP Fibre Cassette 12 LC, Straight Multimode, OM5, Lime Green
NSPACE.MCLC12LS	LANmark-OF ENSPACE MTP Fibre Cassette 12 LC, Crossed Multimode, OM5, Lime Green
NSPACE.MULC12LS	LANmark-OF ENSPACE MTP Fibre Cassette 12 LC, Universal Polarity Multimode, OM5, Lime Green
NSPACE.MSLC12BS	LANmark-OF ENSPACE MTP Fibre Cassette 12 LC, Straight Singlemode, OS2, Blue
NSPACE.MCLC12BS	LANmark-OF ENSPACE MTP Fibre Cassette 12 LC, Crossed Singlemode, OS2, Blue
NSPACE.MULC12BS	LANmark-OF ENSPACE MTP Fibre Cassette 12 LC, Universal Polarity Singlemode, OS2, Blue

LANmark-OF ENSPACE MTP Adaptor Cassette

Description

- ENSPACE MTP adaptor cassette is with MTP adaptor in the front
- Up to 3 duplex adaptors in one cassette
- The cassettes can be conveniently installed in the patch panel from the rear or front of the panel
- High density: up to12 MTP adaptor cassettes in 1U

Characteristics

- The fan-out of the MTP pre-terms inserted into the cassette from the rear and is fixed to resist the influence of external forces

Product List

Aginode ref.	Description
NSPACE.PMTP2U	LANmark-OF ENSPACE MTP Adaptor Cassette, 2xMTP Multimode, Key up-Key up, Grey
NSPACE.PMTP4U	LANmark-OF ENSPACE MTP Adaptor Cassette, 4xMTP Multimode, Key up-Key up, Grey
NSPACE.PMTP6U	LANmark-OF ENSPACE MTP Adaptor Cassette, 6xMTP Multimode, Key up-Key up, Grey
NSPACE.PMTP2A	LANmark-OF ENSPACE MTP Adaptor Cassette, 2xMTP Multimode, Key up-Key down, Aqua
NSPACE.PMTP4A	LANmark-OF ENSPACE MTP Adaptor Cassette, 4xMTP Multimode, Key up-Key down, Aqua
NSPACE.PMTP6A	LANmark-OF ENSPACE MTP Adaptor Cassette, 6xMTP Multimode, Key up-Key down, Aqua
NSPACE.PMTP2G	LANmark-OF ENSPACE MTP Adaptor Cassette, 2xMTP Singlemode, Key up-Key down, Green
NSPACE.PMTP4G	LANmark-OF ENSPACE MTP Adaptor Cassette, 4xMTP Singlemode, Key up-Key down, Green
NSPACE.PMTP6G	LANmark-OF ENSPACE MTP Adaptor Cassette, 6xMTP Singlemode, Key up-Key down, Green

LANmark-OF ENSPACE LC Adaptor Cassette

Description

- ENSPACE LC adaptor cassette has LC adaptors in the front
- The cassette can be conveniently installed in the patch panel from the rear or from the front of the panel
- High density: 12 LC cassettes fit into 1U
- Integrated inner metal shutters

Characteristics

- ENSPACE LC Cassette have 3 quad LC adaptors in the front.
- ENSPACE LC cassette can be easily installed into ENSPACE patch panel. Up to 12 cassette with 144-core LC connectors in 1U patch panel.
- The ENSPACE pre-terminated fibre cable enters the cassette at the rear with a 2.8mm tube containing 12 fibres. and is fixed inside of the cassette to resist external force. The cable in the socket is split into 12 tightly jacketed fibers with a diameter of 0.9mm. These fibers are used in conjunction with the optic fiber splitter inside the socket, making it easy to connect the fibers to the LC adapter at the front end.

Product List

Aginode ref.	Description
NSPACE.PLC12AS	LANmark-OF ENSPACE LC Adaptor Cassette 12 LC, Multimode, Aqua
NSPACE.PLC12LS	LANmark-OF ENSPACE LC Adaptor Cassette 12 LC, Multimode, OM5, Lime Green
NSPACE.PLC12BS	LANmark-OF ENSPACE LC Adaptor Cassette 12 LC, Singlemode, Blue
NSPACE.PLC12GS	LANmark-OF ENSPACE LC Adaptor Cassette 12 LC/APC, Singlemode, Green

LANmark-OF ENSPACE Patch Cord Duplex LC

Description

- Connections from patch panel to equipment in the cabinet
- Connections within the data centres
- Suitable for OM3/OM4/OM5/OS2 fibres
- GIGAliteFLEX bend insensitive fibre
- 10mm Bending Radius
- Uniboot design with cross-over
- Maximum insertion loss meets IEC 61300-3-4: multimode: 0.15dB singlemode 0.25dB;
  Typical insertion loss 0.125dB
- Minimum return loss: multimode>30dB, singlemode>50dB according to IEC 61300-3-6
- Cable with round design, outer diameter is 2mm, saving 50% space
- Tension force: 100N following IEC 60794-1-2-E1

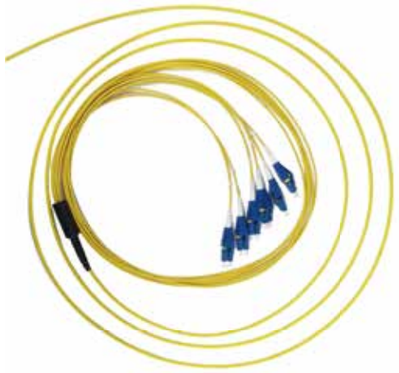
Product List

Aginode ref.	Description
N122.5UUA2	LANmark-OF ENSPACE Patch Cord DLC-DLC OM3 50/125 LSZH 2m, Aqua
N122.5UUA5	LANmark-OF ENSPACE Patch Cord DLC-DLC OM3 50/125 LSZH 5m, Aqua
N122.7UUA2	LANmark-OF ENSPACE Patch Cord DLC-DLC OM4 50/125 LSZH 2m, Aqua
N122.7UUA5	LANmark-OF ENSPACE Patch Cord DLC-DLC OM4 50/125 LSZH 5m, Aqua
N122.9UUL2	LANmark-OF ENSPACE Patch Cord DLC-DLC OM5 50/125 LSZH 2m, Lime Green
N122.9UUL5	LANmark-OF ENSPACE Patch Cord DLC-DLC OM5 50/125 LSZH 5m, Lime Green
N122.4UUY2	LANmark-OF ENSPACE Patch Cord DLC-DLC OS2 G.657.A1 9/125 LSZH 2m, Yellow
N122.4UUY5	LANmark-OF ENSPACE Patch Cord DLC-DLC OS2 G.657.A1 9/125 LSZH 5m, Yellow

LANmark-OF Pre-terminated Fiber Cable

Description

Aginode pre-terminated fibre cable uses indoor cable pre-terminated with connectors on each side in a factory. Optional connector types: ST, SC, LC, etc. Optional fibre cable type: singlemode OS2 9/125μm and multimode OM3 or OM4 50/125μm. The two ends of the pre-terminated fibre cables are provided stretching protective jackets to protect the optical fibre from overlength during installation. When the cable has been installed, the stretching protective jackets can be removed. The pre-terminated fibre cables are 100% tested before leaving the factory. Factory inspection reports are provided when the cables are supplied.



Features

- Rapid installation
- No special terminated training required
- No terminated tool kits
- No termination errors on site
- 100% test before delivery with test report attached
- High performance connectors: maximum insertion loss: 0.25dB (LC/SC/ST)
- Improved attenuation

Customization Requirements

For special customization requirements, please provide the following information:

- Cable type: Singlemode OS2/Multimode OM3/OM4
- Fibre count: 12/24
- Fibre length: length between two patch panels
- Fan-out type: 2.0mm
- Types of connectors at both ends: ST, SC, LC
- Stretching protective jackets at both ends are optional

Standards

Minimum bending radius	IEC 60794-1-E10
Maximum Force	IEC 60794-1-E1
Deformation stress	IEC 60794-1-E3
Impact	IEC 60794-1-E4
Temperature range °C	IEC 60794-1-F1

Dimensions and Mechanical Performance

	12-Core	24-Core
Outer Diameter mm	3.65	5.4
Jacket type	LSZH	LSZH
Minimum bending radius mm	40	150
Maximum Force N	500	1000
Deformation stress N/dm	500	1000
Impact	10 Impact /N.m	10 Impact /N.m
Temperature range °C	-10~60	-10~60

LANmark-OF OM3

	2 Connections	3 Connections	4 Connections	5 Connections	6 Connections
1GBase-SX	920m	840m	820m	760m	720m
10GBase-SR	350m	320m	300m	290m	270m

LANmark-OF OM4

	2 Connections	3 Connections	4 Connections	5 Connections	6 Connections
1GBase-SX	940m	880m	840m	800m	740m
10GBase-SR	550m	490m	470m	450m	430m

Dimensions and Mechanical Performance

Type	Maximum insertion loss	Minimum return loss
Multimode		
SC/PC	0.25	35
LC/PC	0.25	35
ST/PC	0.25	35
Singlemode		
SC/PC	0.25	50
LC/PC	0.25	50
ST/PC	0.25	50

Numbering Rules

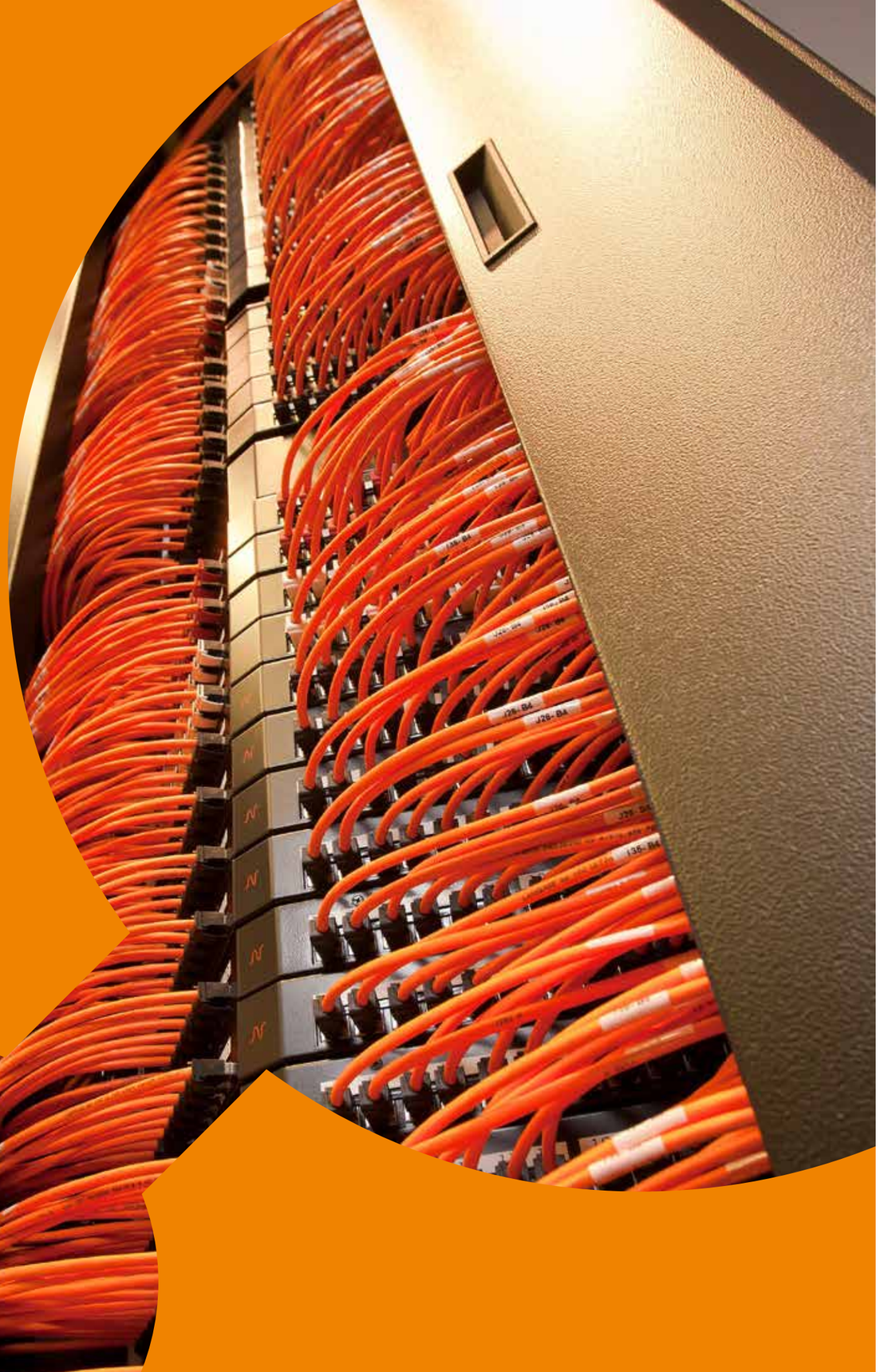
N15 [F] . [A] [BB] [C] [E] [C] [P] [xxx]

Description	
F: Fibre Category	4: Singlemode G.657.A1
	5: Multimode OM3
	7: Multimode OM4
BB: Number of optical fibres cores	12:2-Core
	24:24-Core
C: Type of Connector	L: LC
	C: SC
	T: ST
E: Fan-out Type	2: 2.0mm
P: Traction System	A: Single End with Traction System
xxx	Length (m)

Product List

Aginode ref.	Description
N155.A24T2L2A100	LANmark-OF Pre-terminated OM3 24 ST(2.0mm)-LC (2.0mm) Stretch protective sleeve at one end 100m LSZH
N157.A12L2L2A020	LANmark-OF Pre-terminated OM4 12 LC (2.0mm)-LC (2.0mm) Stretch protective sleeve at one end 20m LSZH
N154.A12L2L2A020	LANmark-OF Pre-terminated SM 12 LC (2.0mm)-LC (2.0mm) Stretch protective sleeve at one end 20m LSZH

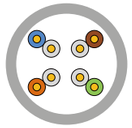
*Please contact Aginode local sales for other specifications and lengths.



Copper Products

Category 5e Cable

essential-5 U/UTP



essential-5 F/UTP

LANmark-5 F²/UTP

Application

Aginode provides screened and unscreened Category 5e cables that meet and exceed the performance requirements of Fast Ethernet for Category 5e cables. Since the performance of transmission channels will be affected by construction, installation and addition of connections in practical applications, Aginode Category 5e cables provide additional performance allowance to reduce the impact of these factors on the transmission channels to ensure efficient applications such as 100M Ethernet.

Characteristics

- 10baseT Ethernet
- 100baseTX Fast Ethernet
- 1000baseTX Gigabit Ethernet
- 155 MBit ATM
- Other Class D Applications

Reference Standards

- ANSI/TIA-568.2-D
- ISO/IEC 11801
- IEC 61156-5

Aginode provides essential and LANmark Category 5e cables with better performance than the standard requirements, especially LANmark-5, whose test frequency can reach 155MHz, which is far higher than the 100MHz test requirements of TIA 568C.2 and IEC 11801, and the performance completely exceeds the standards of TIA 568C.2 and IEC 11801.

LANmark-5 Transmission Performance

Frequency MHz	IL dB/100m Max.	NEXT dB Min.	RL dB Min.	PS NEXT dB Min.	ACR-F dB Min.	PS ACR-F dB Min.
0.772	1.8	70	/	67	/	/
1	2.04	68.3	21	65.3	63.8	60.8
4	4.01	59.3	24	56.3	51.8	48.8
8	5.65	54.8	25.5	51.8	45.7	42.7
10	6.33	53.3	26	50.3	43.8	40.8
16	8.05	50.2	26	47.2	39.7	36.7
20			26	45.8	37.8	34.8
25	10.1	47.3	25.3	44.3	35.8	32.8
31.25	11.4	45.9	24.6	42.9	33.9	30.9
62.5	16.5	41.4	22.5	38.4	27.9	24.9
100	21.3	38.3	21.1	35.3	23.8	20.8
155	27.2	35.4	19.8	32.4	20	17

* All values are specified at 20°C

essential-5 Transmission Performance

Frequency MHz	IL dB/100m Max.	NEXT dB Min.	RL dB Min.	PS NEXT dB Min.	ACR-F dB Min.	PS ACR-F dB Min.
0.772	/	67.0	/	64.0	/	/
1	2.00	65.3	20.0	62.3	64.0	61.0
4	4.08	56.3	23.0	53.3	52.0	49.0
8	5.78	51.8	24.5	48.8	45.9	42.9
10	6.48	50.3	25.0	47.3	44.0	41.0
16	8.26	47.3	25.0	44.2	39.9	36.9
20	9.28	45.8	25.0	42.8	38.0	35.0
25	10.43	44.3	24.3	41.3	36.0	33.0
31.25	11.73	42.9	23.6	39.9	34.1	31.1
62.5	17.00	38.4	21.5	35.4	28.1	25.1
100	21.98	35.3	20.1	32.3	24.0	21.0

* All values are specified at 20°C

Other Electrical Performance

Impedance	100±15 Ohm
Capacitance unbalance (pF/100m at 1kHz)	≤160 pF/100m
Operating capacitance (1KHz)	≤56 pF/m
Insulation resistance at 20°C	≥5000 MΩ·km
Skew	≤45 ns/100m
Propagation delay	≤534+36/√f ns/100m

Flame retardant

Flame retardant (PVC)	IEC 60332-1
Flame retardant (LSZH)	IEC 60332-1
Low smoke (LSZH jacket)	IEC 61034-2
Halogen free (LSZH jacket)	IEC 60754-1&2

Environment and Installation Performance

Description	Maxium Pulling force	Minimum bend radius mm		Temperature	
		Operation	Installation	Operation	Installation
LANmark-5 F2/UTP	90	25	50	-20°C~60°C	-10°C~60°C
essential-5 U/UTP	80	20	40	-20°C~60°C	-10°C~60°C
essential-5 F/UTP	90	25	50	-20°C~60°C	-10°C~60°C

Product List

Aginode ref.	Type	Description	Jacket	Color	Nominal weight kg kg	Nominal Outer Diameter mm	NVP %
N100.561	U/UTP	essential-5 U/UTP AWG24 Cat5e PVC 305m/reelex box	PVC	Orange	10	5.1	69
N100.551	U/UTP	essential-5 U/UTP AWG24 Cat5e LSZH 305m/reelex box	LSZH	Orange	10	5.1	69
N100.451	F/UTP	essential-5 F/UTP AWG24 Cat5e LSZH 305m/reelex	LSZH	Orange	13	6.2	68
N100.421	F2/UTP	LANmark-5 F2/UTP AWG24 Cat5e 155MHz LSZH 500m/reel	LSZH	Orange	30	6.5	68

Category 6 Cable

essential-6 AWG24 U/UTP

Application

Aginode provides essential-6 cables meeting the requirements of Category 6 cables for Gigabit Ethernet with tested bandwidth up to 250MHz. The essential- 6 cables are installed in conjunction with the Connectors of the essential-6 series and the PCB patch panel to form the essential channel.

Characteristics

- 10baseT Ethernet
- 100baseTX Fast Ethernet
- 1000baseTX Gigabit Ethernet
- 155 MBit ATM
- 622 MBit ATM
- 1.2 Gbit ATM
- Other Class D Applications

Reference Standards

- ANSI/TIA-568.2-D
- ISO/IEC 11801
- IEC 61156-5

essential-6 Transmission Performance

Frequency MHz	IL dB/100m Max.	NEXT dB Min.	RL dB Min.	PS NEXT dB Min.	ACR-F dB Min.	PS ACR-F dB Min.
0.772	/	76.0	/	74.0	/	/
1	2.0	74.3	20.0	72.3	67.8	64.8
4	3.8	65.3	23.0	63.3	55.8	52.8
10	6.0	59.3	25.0	57.3	47.8	44.8
16	7.6	56.2	25.0	54.2	43.7	40.7
20	8.5	54.8	25.0	52.8	41.8	38.8
31.25	10.7	51.9	23.6	49.9	37.9	34.9
62.5	15.4	47.4	21.5	45.4	31.9	28.9
100	19.8	44.3	20.1	42.3	27.8	24.8
155	25.2	41.4	18.8	39.4	24.0	21.0
200	29.0	39.8	18.0	37.8	21.8	18.8
250	32.8	38.3	17.3	36.3	19.8	16.8

* All values are specified at 20°C

Environmental property

Temperature (installation)	-10°C to 60°C
Temperature (Operation)	-20°C to 60°C
Flame retardant (PVC)	IEC 60332-1
Flame retardant (LSZH)	IEC 60332-1
Low smoke (LSZH jacket)	IEC 61034-2
Halogen free (LSZH jacket)	IEC 60754-1&2

Other Performance

Impedance (1MHz≤f≤250 MHz)	100±15 Ohm
Capacitance unbalance (pF/100m at 1kHz)	≤160 pF/100m
Operating capacitance (1KHz)	≤56 pF/m
Insulation resistance at 20°C	≥5000 MΩ·km
Skew (1MHz≤f≤250 MHz)	≤45 ns/100m
propagation delay (1MHz≤f≤250 MHz)	≤534+36/$\sqrt{f}$ ns/100m

Installation

Maxium pulling force	100
Minimum Bend Radius (operating) mm	22
Minimum Bend Radius (installation) mm	44

Product List

Aginode ref.	Type	Description	Jacket	Color	Nominal weight kg	Nominal Outer Diameter mm	NVP %
N100.161	U/UTP	essential-6 U/UTP AWG24 Cat6 LSZH Orange 305m/Reelex box	LSZH	Orange	11.5	5.5	69
N100.166	U/UTP	essential-6 U/UTP AWG24 Cat6 PVC Light Grey 305m/Reelex box	PVC	Grey	11.5	5.5	69

Category 6 Cable

essential-6 AWG23 U/UTP

Application

Aginode provides essential-6 cables with performance meeting the 250MHz test requirements of TIA568C.2 and IEC 11801.

Characteristics

- 10baseT Ethernet
- 100baseTX Fast Ethernet
- 1000baseTX Gigabit Ethernet
- 155 MBit ATM
- 622 MBit ATM
- 1.2 Gbit ATM
- Other Class E Applications

Reference Standards

- ANSI/TIA-568.2-D
- ISO/IEC 11801
- IEC 61156-5

Other Performance

Impedance (1MHz≤f≤250 MHz)	100±15 Ohm
Capacitance unbalance (pF/100m at 1kHz)	≤160 pF/100m
Operating capacitance (1KHz)	≤56 pF/m
Insulation resistance at 20°C	≥5000 MΩ·km
Skew (1MHz≤f≤250 MHz)	≤45 ns/100m
Propagation delay (1MHz≤f≤250 MHz)	≤534+36/$\sqrt{f}$ ns/100m

Environmental property

Temperature (installation)	-10°C to 60°C
Temperature (Operation)	-20°C to 60°C
Flame retardant (PVC)	IEC 60332-1
Flame retardant (LSZH)	IEC 60332-1
Low smoke (LSZH jacket)	IEC 61034-2
Halogen free (LSZH jacket)	IEC 60754-1&2

Installation

Maxium pulling force	100
Minimum Bend Radius (operating) mm	24
Minimum Bend Radius (installation) mm	48

Product List

Aginode ref.	Type	Description	Jacket	Color	Nominal weight kg	Nominal Outer Diameter mm	NVP %
N100.170	U/UTP	essential-6 U/UTP AWG23 Cat6 LSZH Orange 305m/Reel in box	LSZH	Orange	13.5	6.1	67
N100.175	U/UTP	essential-6 U/UTP AWG23 Cat6 PVC Light Grey 305m/Reel in box	PVC	Grey	13.5	6.1	67

essential-6 AWG23 U/UTP Transmission Performance

Frequency MHz	IL dB/100m Max.	NEXT dB Min.	RL dB Min.	PS NEXT dB Min.	ACR-F dB Min.	PS ACR-F dB Min.
0.772	---	76	---	74	---	---
1	2.03	74.3	20	72.3	67.8	64.8
4	3.78	65.3	23	63.3	56	52.8
10	5.95	59.3	25	57.3	48	44.8
16	7.55	56.2	25	54.2	43.7	40.7
20	8.47	54.8	25	52.8	41.8	38.8
31.25	10.7	51.8	23.6	49.9	37.9	34.9
62.5	15.4	47.4	21.5	45.4	31.9	28.9
100	19.8	44.3	20.1	42.3	27.8	24.8
155	25.2	41.4	18.8	39.4	24	21
200	29	39.8	18	37.8	21.8	18.8
250	32.8	38.3	17.3	36.3	19.8	16.8

* All values are specified at 20°C

Category 6 Cable

LANmark-6 U/UTP

LANmark-6 F/UTP

LANmark-6 F²/UTP

Application

Aginode provides Category 6 cables that meet and exceed the performance requirements of Gigabit Ethernet for Category 6 cables,with the LANmark-6 series cable testing bandwidth up to 350 MHz. The center C3 cross skeleton reduces the damage caused by great pressure and twisting, and the skeleton C3 can be easily cut without special tools.In actual applications, construction and installation, as well as the addition of relay connection points can impact on the performance of the transmission channel. Aginode Category 6 data copper cables provide additional performance allowance to reduce the impact of these factors on the transmission channels to ensure efficient applications such as Gigabit Ethernet.

Characteristics

- 10baseT Ethernet
- 100baseTX Fast Ethernet
- 1000baseTX Gigabit Ethernet
- 155 MBit ATM
- 622 MBit ATM
- 1.2 Gbit ATM
- Other Class E Applications

Reference Standards

- ANSI/TIA-568.2-D
- ISO/IEC 11801

Aginode provides LANmark Category 6 cables with better performance than the standard requirements. The test frequency is up to 350MHz, which is much higher than the 250MHz test requirements of TIA 568C.2 and IEC 11801, and the performance completely exceeds the standards of TIA 568C.2 and IEC 11801.

LANmark-6 Transmission Performance

Frequency MHz	IL dB/100m Max.	NEXT dB Min.	RL dB Min.	PS NEXT dB Min.	ACR-F dB Min.	PS ACR-F dB Min.
0.772	/	79	/	77.0	/	/
1	2.03	77.3	21.0	75.3	67.8	64.8
4	3.78	68.3	24.0	66.3	55.8	52.8
10	5.95	62.3	26.0	60.3	47.8	44.8
16	7.55	59.2	26.0	57.2	43.7	40.7
20	8.47	57.8	26.0	55.8	41.8	38.8
31.25	10.7	54.9	24.6	52.9	37.9	34.9
62.5	15.4	50.4	22.5	48.4	31.9	28.9
100	19.8	47.3	21.1	45.3	27.8	24.8
155	25.2	44.4	19.8	42.4	24.0	21.0
200	29.0	42.8	19.0	40.8	21.8	18.8
250	32.8	41.3	18.3	39.3	19.8	16.8
300	36.4	40.1	17.8	38.1	18.3	15.3
350	39.8	39.1	17.3	37.1	16.9	13.9

* All values are specified at 20°C

Flame retardant

Nexans ref.	Flame retardant
N100.604	IEC 60332-1, IEC 61034-2, IEC 60754-1&2
N100.607	
N100.672	
N100.662	
N100.614	IEC 60332-1
N100.617	
N100.661	
N100.604FR	IEC 60332-1, IEC 60332-3-24, IEC 61034-2, IEC 60754-1&2
N100.604-O6	IEC 60332-1, IEC 60332-3-22, IEC 61034-2, IEC 60754-1&2
N100.614-D9	UL1581
N100.614-D3	UL1666

Other Performance

Impedance	100±15 Ohm
Capacitance unbalance (pF/100m at 1kHz)	≤160 pF/100m
Operating capacitance (1KHz)	≤56 pF/m
Insulation resistance at 20°C	≥5000 MΩ·km
Skew	≤45 ns/100m
propagation delay	≤534+36/√f ns/100m

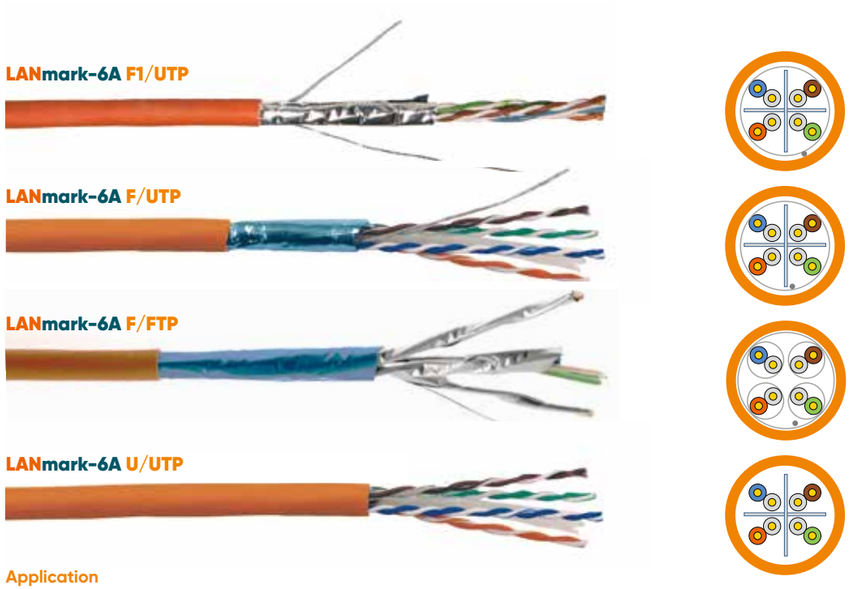
Environment and Installation Performance

Description	Maxium pulling force	Minimum bend radius mm		Temperature	
		Operation	Installation	Operation	Installation
LANmark-6 U/UTP	100	25	50	-20°C~60°C	-10°C~60°C
LANmark-6 F2/UTP	100	32	64	-20°C~60°C	-10°C~60°C
LANmark-6 F/UTP	100	28	56	-20°C~60°C	-10°C~60°C
LANmark-6 U/UTP IEC 60332-3-24	100	26	52	-20°C~60°C	-10°C~60°C
LANmark-6 U/UTP IEC 60332-3-22	100	25	50	-20°C~60°C	-10°C~60°C
LANmark-6 U/UTP GB 31247 B1	100	27	54	-20°C~60°C	-10°C~60°C

Product List

Nexans ref.	Type	Description	Jacket	Color	Nominal weight kg	Nominal Outer Diameter mm	NVP %
N100.604	U/UTP	LANmark-6 U/UTP AWG23 Cat6 350MHz LSZH 305m/reel in box	LSZH	Orange	14	6.2	69
N100.604FR	U/UTP	LANmark-6 U/UTP AWG23 Cat6 350MHz IEC60332-3-24 LSZH 305m/reel	LSZH	Orange	15	6.6	67
N100.604-O6	U/UTP	LANmark-6 U/UTP AWG23 Cat6 350MHz IEC60332-3-22 LSZH 305m/reel	LSZH	Orange	14	6.2	67
N100.607	U/UTP	LANmark-6 U/UTP AWG23 Cat6 350MHz LSZH 305m/reelex box	LSZH	Orange	13	6.2	69
N100.614	U/UTP	LANmark-6 U/UTP AWG23 Cat6 350MHz PVC 305m/reel in box	PVC	Grey	14	6.2	69
N100.614-D9	U/UTP	LANmark-6 U/UTP AWG23 CM Cat6 PVC 305m/reel in box CM	PVC	Grey	14	6.2	67
N100.614-D3	U/UTP	LANmark-6 U/UTP AWG23 CMR Cat6 PVC 305m/reel in box CMR	PVC	Grey	14	6.2	67
N100.617	U/UTP	LANmark-6 U/UTP AWG23 Cat6 350MHz PVC 305m/reelex box	PVC	Grey	13	6.2	69
N100.661	F2/UTP	LANmark-6 F2/UTP AWG23 Cat6 350MHz PVC 500m/reel	PVC	Grey	33	7.7	68
N100.662	F2/UTP	LANmark-6 F2/UTP AWG23 Cat6 350MHz LSZH 500m/reel	LSZH	Orange	33	7.7	68
N100.672	F/UTP	LANmark-6 F/UTP AWG23 Cat6 350MHz LSZH 500m/reel	LSZH	Orange	30	7.0	69

Category 6A Cable



Application

The Aginode Cat6A cable provides excellent properties assurance for 10 Gigabit networks, with a testing frequency of up to 500MHz.It is designed to support 10 Gigabit Ethernet and has strong capability for downward compatibility .The cable structures include shielded and unshielded types, with different flame retardant ratings for different application scenarios.

Characteristics

- 10Base-T Ethernet
- 100Base-TX Fast Ethernet
- 1000Base-TX Gigabit Ethernet
- 10GBase-T 10 Gigabit Ethernet IEEE 802.3
- 155 Mbit ATM
- 1.2 Gbit ATM
- Other Cat6A and Class EA Applications

Reference Standards

- ANSI/TIA-568.2-D
- ISO/IEC 11801
- IEC 61156-5

LANmark-6A Transmission Performance

Frequency MHz	IL dB/100m Max.	NEXT dB Min.	RL dB Min.	PS NEXT dB Min.	ACR-F dB Min.	PS ACR-F dB Min.	PS ANEXT dB Min	PS AACR-F dB Min
1	2.1	74.3	20.0	72.3	67.8	64.8	67.0	67.0
4	3.8	65.3	23.0	63.3	55.8	52.8	67.0	66.2
10	5.9	59.3	25.0	57.3	47.8	44.8	67.0	58.2
16	7.5	56.2	25.0	54.2	43.7	40.7	67.0	54.1
20	8.4	54.8	25.0	52.8	41.8	38.8	67.0	52.2
31.25	10.5	51.9	23.6	49.9	37.9	34.9	67.0	48.3
62.5	15.0	47.4	21.5	45.4	31.9	28.9	65.6	42.3
100	19.1	44.3	20.1	42.3	27.8	24.8	62.5	38.2
155	24.1	41.4	18.8	39.4	24.0	21.0	59.6	34.4
200	27.6	39.8	18.0	37.8	21.8	18.8	58.0	32.2
250	31.1	38.3	17.3	36.3	19.8	16.8	56.5	30.2
300	34.3	37.1	16.8	35.1	18.3	15.3	55.3	28.7
500	45.3	33.8	15.2	31.8	13.8	10.8	52.0	24.2

* All values are specified at 20°C

Fire Performance

Aginode ref.	Fire Performance
N100.624G-OD	EN50575:2014+A1:2016, IEC60332-1, IEC61034-2, IEC60754-1&2
N100.692G	IEC60332-1, IEC61034-2, IEC60754-1&2
N100.671G	IEC60332-1, IEC61034-2, IEC60754-1&2
N100.672G	IEC60332-1, IEC61034-2, IEC60754-1&2
N100.672G-D3	UL1666
N100.675G-O5	IEC60332-1, IEC60332-3-22, IEC61034-2, IEC60754-1&2
N100.692G-O5	IEC60332-1, IEC60332-3-24, IEC61034-2, IEC60754-1&2
N100.624GP	NFPA262
N100.634G-B3	UL1666
N100.634G-OD	EN50575:2014+A1:2016, IEC60332-1, IEC61034-2, IEC60754-1&2
N100.639G	IEC60332-1, IEC61034-2, IEC60754-1&2

Other Electrical Performance

Characteristics impedance	100 Ohm
Operating capacitance (1KHz)	≤56 nF/km
Insulation resistance at 20°C	≥5000 MΩ·km
Skew (1MHz≤f≤500 MHz)	≤45 ns/100m
Propagation (100 MHz)	≤536 ns/100m
Coupling attenuation F1/UTP (30MHz)	≥70 dB
Coupling attenuation F/UTP (30MHz)	≥70 dB
Coupling attenuation F/FTP (30MHz)	≥85 dB

Environment and Installation Performance

Description	Maxium pulling force	Minimum bend radius mm		Temperature	
		Operation	Installation	Operation	Installation
LANmark-6A F/UTP	100	29	58	-20°C~60°C	-10°C~60°C
LANmark-6A F/FTP	100	29	58	-20°C~60°C	-10°C~60°C
LANmark-6A F/UTP IEC 60332-3-22	100	29	58	-20°C~60°C	-10°C~60°C
LANmark-6A F/UTP IEC 60332-3-24	100	30	60	-20°C~60°C	-10°C~60°C
LANmark-6A U/UTP	100	29	58	-20°C~60°C	-10°C~60°C

Product List

Aginode ref.	Type	Description	Jacket	Color	Nominal weight kg	Nominal Outer Diameter mm	NVP %
N100.622G-OD	F1/UTP	LANmark-6A F1/UTP AWG23 Cat6A LSZH Dca s2 d1 a1 Orange 1000m/reel	LSZH	Orange	55	7.5	70
N100.624GP	F/UTP	LANmark-6A F/UTP AWG23 Cat6A Plenum CMP Grey 305m/reel	CMP	Grey	21	7.3	65
N100.634G-B3	U/UTP	LANmark-6A U/UTP AWG24 Cat6A Riser CMR Blue 500m/reel CMR	CMR	Blue	25	7.5	68
N100.634G-OD	U/UTP	LANmark-6A U/UTP AWG24 Cat6A LSZH Dca s2 d1 a1 Orange 500m/reel	LSZH	Orange	25	7.5	68
N100.638G	U/UTP	LANmark-6A U/UTP AWG23 Cat6A LSZH Orange 305m/box	LSZH	Orange	19	7.3	69
N100.671G	F/UTP	LANmark-6A F/UTP AWG23 Cat6A LSZH Orange 1000m/reel	LSZH	Orange	59	7.2	67
N100.672G	F/UTP	LANmark-6A F/UTP AWG23 Cat6A LSZH Orange 500m/reel	LSZH	Orange	30	7.2	67
N100.672G-D3	F/UTP	LANmark-6A F/UTP AWG23 Cat6A CMR Grey 500m/reel	CMR	Grey	30	7.2	65
N100.675G-O5	F/UTP	LANmark-6A F/UTP AWG23 Cat6A LSZH IEC60332-3-22 Orange 1000m/reel	LSZH	Orange	59	7.2	65
N100.692G	F/FTP	LANmark-6A F/FTP AWG23 Cat6A LSZH Orange 1000m/reel	LSZH	Orange	52	7.2	75
N100.692G-O5	F/FTP	LANmark-6A F/FTP AWG23 Cat6A LSZH IEC60332-3-24 Orange 1000m/reel	LSZH	Orange	59	7.6	82

Category 7 Cable

LANmark-7 S/FTP

Application

With AWG23 as conductors, Aginode LANmark-7 data copper cables have a S/FTP screened structure with transmission bandwidth of 600 MHz. The Category 7 copper cables meet and exceed the latest international standards and are suitable for data centres. Due to excellent transmission performance and high ACR value, all cables support 10GBASE-T applications. When used in conjunction with the LANmark GG45 connector, the cable will offer excellent link and channel performance. The cable also meets CPR regulations.

Characteristics

- Support all Ethernet applications
- 10/100/1000Base-T
- 1000Base-TX
- 10GBase-T
- POE, POE+, POE++
- CATV up to 862MHz
- Any future Class F application

Reference Standards

- EN50173
- EN50288-4-1
- ISO/IEC 11801
- ISO/IEC 61156-5
- EN50575:2014+A1:2016

LANmark-7 Transmission Performance

Frequency (MHz)	Attenuation (dB/100m) Max.	NEXT (dB) Min.	ACR (dB) Min.	PS-NEXT (dB) Min.	ACR-F (dB) Min.	PS-ACR-F (dB) Min.	Return Loss (dB) Min.
1	4	75	71	72	75	75	20
4	4	75	71	72	75	75	23
10	5.9	75	69.1	72	75	72.3	25
16	7.4	75	67.6	72	71.2	68.2	25
20	8.3	75	66.7	72	69.3	66.3	25
31.25	10.4	75	64.6	72	65.4	62.4	23.6
62.5	14.9	75	60.1	72	59.4	56.4	21.5
100	19	72.4	53.4	69.4	55.3	52.3	20.1
155	24	69.5	45.6	66.5	51.5	48.5	18.8
250	31	66.4	35.5	63.4	47.3	44.3	17.3
300	34.2	65.2	31.1	62.2	45.8	42.8	17.3
600	50.1	60.7	10.6	57.7	39.7	36.7	17.3

* All values are specified at 20°C

Fire Performance

Aginode ref.	Fire Performance
N100.365-OD	EN50575:2014+A1:2016, IEC60332-1, IEC61034-2, IEC60754-1&2

Other Electrical Performance

Characteristics impedance	100 Ohm
Insulation resistance at 20°C	≥5000 MΩ·km
Skew	25 ns/100m
Propagation delay (100 MHz)	≤536 ns/100m

Environment and Installation Performance

Description	Maxium pulling force	Minimum bend radius mm		Temperature	
		Operation	Installation	Operation	Installation
LANmark-7 600MHz S/FTP	100	28	56	-20°C~60°C	-10°C~60°C

Product List

Aginode ref.	Type	Description	Jacket	Color	Nominal weight kg	Nominal Outer Diameter mm	NVP %
N100.365-OD	S/FTP	LANmark-7 S/FTP AWG23 Cat7 600MHz Dca s2 d1 a1 Orange 1000m/Reel	LSZH	Orange	50	7.0	82

Category 7A Cable

LANmark-7A 1250MHz

Application

With AWG23 as conductors, Aginode LANmark-7A 1250MHz data copper cables have S/FTP screened structure with transmission bandwidth of 1250 MHz and are specially optimized for 25GBASE-T applications. The Category 7A copper cables meet and exceed the latest international standards and are suitable for data centres. The excellent transmission performance and high ACR value, all cables support 10GBASE-T applications, including 25GBASE-T applications up to 30m. When used in conjunction with the LANmark GG45 connector, the cable will offer excellent link and channel performance. The cable also meets CPR regulations.

Characteristics

- Support all Ethernet applications
- 10/100/1000Base-T
- 1000Base-TX
- 10GBase-T
- 25GBase-T
- POE, POE+, POE++
- CATV up to 862MHz
- Any future Class FA application

Reference Standards

- EN50173
- EN50288-4-1
- ISO/IEC 11801
- ISO/IEC 61156-5
- EN50575:2014+A1:2016

LANmark-7A 1250MHz Transmission Performance

Frequency (MHz)	Attenuation (dB/100m) Typical	NEXT pp (dB) Typical	ACR-F (dB) Typical	RL (dB) Typical	Coupling Att. (dB) Typical	PSANEXT (dB) Typical	PSAFEXT (dB) Typical
1	4	104.8	70	38	106	92.4	83
4	4	94.6	70	32	94	92.1	82.8
10	6.3	87.8	70	28	86	91	78.9
16	7.9	84.2	68.3	26	81.9	90	76.9
20	8.9	82.5	66.4	25	80	89.4	75.9
31.25	11.1	79.1	62.5	23.1	76.1	88	74
62.5	15.6	73.7	56.5	20	70.1	85.3	71
100	19.7	70	52.4	18	66	83.1	68.9
155	24.5	66.6	48.6	16.1	62.2	80.8	66.9
200	27.9	64.6	46.4	15	60	79.4	65.8
250	31.2	62.8	44.4	14	58	78.1	64.8
300	34.1	61.3	42.8	13.2	56.5	77.1	63.9
500	44.1	57.2	38.4	11	52	75	61.6
600	48.3	55.8	36.8	10.2	50.4	75	60.8
700	52.1	54.5	35.5	9.5	49.1	75	60.1
800	55.7	53.5	34.3	9	47.9	75	59.4
900	59.1	52.5	33.3	8.5	46.9	74	58.9
1000	62.3	51.6	32.4	8	46	73	58.4
1250	66.8	42.0	25.0	8.0	40.0	70.0	50.0

* All values are specified at 20° C

Fire Performance

Aginode ref.	Fire Performance
N100.371-OD	EN50575:2014+A1:2016, IEC60332-1, IEC61034-2, IEC60754-1&2

Reference Standards

Characteristics impedance	100 Ohm
Insulation resistance at 20°C	≥5000 MΩ·km
Skew	25 ns/100m
Propagation delay (100 MHz)	≤536 ns/100m

Environment and Installation Performance

Description	Maxium pulling force	Minimum bend radius mm		Temperature	
		Operation	Installation	Operation	Installation
LANmark-7A 1250MHz S/FTP	100	31	62	-20°C~60°C	-10°C~60°C

Product List

Aginode ref.	Type	Description	Jacket	Color	Nominal weight kg	Nominal Outer Diameter mm	NVP %
N100.371-OD	S/FTP	LANmark-7A 1250 S/FTP AWG23 Cat7A 1250MHz LSZH Dca s2 d1 a1 Orange 1000m reel	LSZH	Orange	61	7.7	82

Category 7A Cable

LANmark-7A 1600MHz

Application

With AWG22 as conductors, Aginode LANmark-7A 1600MHz data copper cables have S/FTP screened structure with tested bandwidth up to 1600MHz. The Category 7A copper cables meet and exceed the latest international standards and are suitable for data centres. The excellent transmission performance and high ACR value, supports 10GBASE-T applications, including 25GBASE-T applications up to 30m. When used in conjunction with the LANmark GG45 connector, the cable will offer excellent link and channel performance. The cable also meets CPR regulations.

Characteristics

- Support all Ethernet applications
- 10/100/1000Base-T
- 1000Base-TX
- 10GBase-T
- 25GBase-T
- POE, POE+, POE++
- CATV up to 862MHz
- Any future Class FA application

Reference Standards

- EN50173
- EN50288-4-1
- ISO/IEC 11801
- ISO/IEC 61156-5
- EN50575:2014+A1:2016

LANmark-7A 1600MHz Transmission Performance

Frequency (MHz)	Attenuation (dB/100m) Typical	NEXT (dB) Typ.	PS-ANEXT (dB) Typ.	ACR (dB) Typ.	ACR-F (dB) Typ.	TCL (dB) Typ.	Return Loss (dB) Typ.
1	1.9	105	87.5	103.1	83	43	30
4	3.5	105	87.5	101.5	83	37	33
10	5.4	105	87.5	99.6	83	33	34
16	6.8	105	87.5	98.2	83	31	34
20	7.6	105	87.5	97.4	83	30	34
31.25	9.5	105	87.5	95.5	83	28.1	32.7
62.5	13.4	105	87.5	91.6	83	25.1	30.6
100	17	102.4	87.5	85.4	80.3	23	29.1
155	21.3	97.6	87.5	76.3	75.5	21.1	27.8
300	29.9	90.5	87.5	60.6	68.4	18.2	26.3
600	42.7	82.9	83.3	40.3	60.8	15.2	26.3
800	49.6	79.8	81.5	30.2	57.7	14	23.8
1000	55.7	77.4	80	21.7	55.3	13	21.9
1200	61.3	75.4	78.8	14.1	53.3	12.2	20.3
1500	69	73	77.4	4	50.9	11.2	18.3
1600	71.4	72.3	76.9	0.9	50.2	11	17.8

* All values are specified at 20° C

Fire Performance

Aginode ref.	Fire Performance
N100.381-OD	EN50575:2014+A1:2016, IEC60332-1, IEC61034-2, IEC60754-1&2

Other Electrical Performance

Characteristics impedance	100 Ohm
Insulation resistance at 20°C	≥5000 MΩ·km
Skew	25 ns/100m
Propagation delay (100 MHz)	≤536 ns/100m

Environment and Installation Performance

Description	Maxium pulling force	Minimum bend radius mm Temperature			
		Operation	Installation	Operation	Installation
LANmark-7A 1600MHz S/FTP	100	34	68	-20°C~60°C	-10°C~60°C

Product List

Aginode ref.	Type	Description	Jacket	Color	Nominal weight kg	Nominal Outer Diameter mm	NVP %
N100.381-OD	S/FTP	LANmark-7A 1600 S/FTP AWG22 Cat7A 1600MHz LSZH Dca s2 d1 a1 Orange 1000m reel	LSZH	Orange	72	7.8	76

Category 8 Cable

LANmark-8 S/FTP

Application

With AGW22 as conductors, Aginode LANmark-8 data copper cables have S/FTP screened structure with tested bandwidth up to 2000MHz. The Category 8 copper cables meet and exceed the latest international standards and are suitable for data centres. The excellent transmission performance supports 10GBASE-T applications up to 100m, including 25GBASE-T and 40GBAse-T applications up to 30m. When used in conjunction with the LANmark GG45 connector, the cable will offer excellent link and channel performance. The cable also meets CPR regulations.

Characteristics

- Support all Ethernet applications
- 10/100/1000Base-T
- 1000Base-TX
- 10GBase-T
- 25GBase-T and 40GBase-T
- POE, POE+, POE++
- CATV up to 862MHz
- Any future Class FA, Class I and Class II application

Reference Standards

- EN50173
- EN50288-4-1
- ISO/IEC 11801
- ISO/IEC 61156-9
- EN50575:2014+A1:2016

LANmark-8 Transmission Performance

Frequency MHz	IL dB/100m Max.	NEXT dB Min.	RL dB Min.	ACRF dB Min.	TCL dB Min.	PS ANEXT dB Min.	PS AACR-F dB Min.	Prop.Delay ns/100m Max.
1	2.1	75	20	75	45	80	80	483
4	3.7	75	23	75	39	80	80	468
10	5.8	75	25	75	35	80	80	470
16	7.3	75	25	75	33	80	80	468
20	8.2	75	25	75	32	80	80	467
30	10	75	25	75	30.2	80	80	466
62	14.4	75	23.6	74.4	27	80	76.3	464
100	18.3	75	22.2	70.3	25	80	72.2	463
200	26.1	73.9	20.1	64.3	22	80	66.2	462
300	32.1	71.2	18.9	60.8	20.2	80	62.7	462
400	37.2	69.4	18	58.3	19	80	60.2	462
600	45.9	66.7	16.8	54.7	17.2	80	56.6	461
1000	59.9	63.4	15.2	50.3	15	80	52.2	461
1200	66	62.2	14.7	48.7	14.2	80	50.6	461
1500	74.2	60.8	14	46.8	13.2	79.9	48.7	461
1600	76.8	60.3	13.8	46.2	13	79.4	48.1	461
1800	81.8	59.6	13.4	45.2	12.4	78.7	47.1	461
2000	86.5	58.9	13.1	44.3	12	78	46.2	461

* All values are specified at 20° C

Fire Performance

Aginode ref.	Fire Performance
N100.481-OD	EN50575:2014+A1:2016, IEC60332-1, IEC61034-2, IEC60754-1&2

Reference Standards

Characteristics impedance	100 Ohm
Insulation resistance at 20°C	≥5000 MΩ·km
Skew	25 ns/100m
Propagation delay (100 MHz)	≤463 ns/100m

Environment and Installation Performance

Description	Maxium pulling force	Minimum bend radius mm Temperature			
		Operation	Installation	Operation	Installation
LANmark-8 2000MHz S/FTP	100	34	68	-20°C~60°C	-10°C~60°C

Product List

Aginode ref.	Type	Description	Jacket	Color	Nominal weight kg	Nominal Outer Diameter mm	NVP %
N100.481-OD	S/FTP	LANmark-8 S/FTP AWG22 2000MHz LSZH Dca s2 d2 a1 Orange 1000m Reel	LSZH	Orange	72	8.6	76

Category 5e Copper Connector

essential

Application

essential-5 series connectors comply with the specifications of Class D/Cat5e described in ISO/IEC 11801 and ANSI/TIA-568.2-D. Bandwidth support up to 100MHz. Supports UTP and FTP connectors. The connectors with SNAP-IN modular design are suitable for all Aginode modular structural hardware, making installation faster and more convenient.

- 10baseT Ethernet
- 100baseTX Fast Ethernet
- 1000base-T Gigabit Ethernet
- 155 Mbit ATM
- 622 Mbit ATM

Characteristics

- Color code: T568A and T568B
- Acceptable 24,23AWG cables
- UL Listed
- Support for repeated terminations

Reference Standards

- ISO/IEC 11801
- ANSI/TIA-568.2-D

Reference Standards	
Maximum contact impedance	20m Ohm
Maximum DC impedance	200m Ohm
Insulation impedance	500m Ohm
Withstand voltage (peak)	1000V DC/AC

Product List

Aginode ref.	Description	Specification W x H x D mm
N420.416	essential-5 Snap-In Category 5e Unscreened connectors LSA/110	17x19.5x36
N420.426	essential-5 Snap-In Category 5e Screened connectors LSA/110	17x19.5x36.2

Category 6 Copper Connector

essential

Application

essential-6 series connector comply with the specifications of Class E/Cat6 described in ISO/IEC 11801 and ANSI/TIA-568.2-D. Bandwidth support up to 250MHz. Keystone format. The connector are designed to be used in conjunction with essential Keystone series connection hardware.

- 10baseT Ethernet
- 100baseTX Fast Ethernet
- 1000base-T Gigabit Ethernet
- 1000Base-TX
- 155 Mbit ATM
- 622 Mbit ATM

Characteristics

- Color code: T568A and T568B
- Can be terminated with 22~24AWG cables
- UL Listed
- Color models available
- Support for repeated terminations
- Tracebility code on the connector

Reference Standards

- ISO/IEC 11801
- ANSI/TIA-568.2-D

Reference Standards	
Maximum contact impedance	20m Ohm
Maximum DC impedance	200m Ohm
Insulation impedance	500m Ohm
Withstand voltage (peak)	1000V DC/AC

Product List

Aginode ref.	Description	Specification W x H x D mm
N420.116	essential-6 Keystone RJ45 Cat 6 Unscreened connector, 22~24AWG	16.7x24x29

Category 6 Copper Connector

LANmark

Application

Lanmark-6 series connectors comply with the specification of Class E/Cat6 described in ISO/IEC 11801 and ANSI/TIA-568.2-D. Supports bandwidth up to 350MHz. Supports UTP and FTP connectors. The connectors with SNAP-IN modular design are suitable for all LANmark Aginode modular structural hardware, making installation faster and more convenient. EVO wiring mode, faster and more reliable termination with shorter size to ensure the minimum bend radius when terminating onto a faceplate.

- 10baseT Ethernet
- 100baseTX Fast Ethernet
- 1000base-T Gigabit Ethernet
- 1000Base-TX
- 155 Mbit ATM
- 622 Mbit ATM

EVO

Shorter, quicker, easier...

Characteristics

- Color code: T568A and T568B
- The connectors can be terminated with 22-24AWG or 24-27AWG cables
- Connectable cable: F/UTP, F1/UTP, F2/UTP, F/FTP, U/UTP, SF/UTP, S/FTP
- UL Listed
- Color models available
- Clips for Keystone (optional, see page 150)
- Support of repeated terminations
- Tracebility code on the connector
- In line with IEEE802.3af (POE); IEEE802.3at (POE+) supports POE+ applications and each pair of lines can transmit 15W power; IEEE802.3bt (POE++), support POE++ applications, each pair can transmit 20W power

Reference Standards

Maximum contact impedance	20m Ohm
Maximum DC impedance	200m Ohm
Insulation impedance	500m Ohm
Withstand voltage (peak)	1000V DC/AC

Reference Standards

- ISO/IEC 11801
- ANSI/TIA-568.2-D

Product List

Aginode ref.	Description	Specification W x H x D mm
N420.660	LANmark-6 EVO RJ45 Snap-In Cat 6 Unscreened connector, 22~24AWG	16.7x22.9x29
N420.660GRE	LANmark-6 EVO RJ45 Snap-In Cat 6 Unscreened connector, 22~24AWG Green	16.7x22.9x29
N420.660RED	LANmark-6 EVO RJ45 Snap-In Cat 6 Unscreened connector, 22~24AWG Red	16.7x22.9x29
N420.660BLU	LANmark-6 EVO RJ45 Snap-In Cat 6 Unscreened connector, 22~24AWG Blue	16.7x22.9x29
N420.660ORA	LANmark-6 EVO RJ45 Snap-In Cat 6 Unscreened connector, 22~24AWG Orange	16.7x22.9x29
N420.661	LANmark-6 EVO RJ45 Snap-In Cat 6 Unscreened connector, 24~27AWG	16.7x22.9x29
N420.666	LANmark-6 EVO RJ45 Snap-In Cat 6 Screened connector, 22~24AWG	16.8x23.2x36
N420.667	LANmark-6 EVO RJ45 Snap-In Cat 6 Screened connector, 24~27AWG	16.8x23.2x36

* Please contact Aginode local sales for other color.

Category 6A Unscreened Copper Connector

Application

The LANmark-6A unscreened keystone connector has been designed to support the higher frequencies required for 10 Gigabit Ethernet, whilst maintaining full backwards compatibility with lower speed applications.

The connector is manufactured and tested to the latest Category 6A specifications of the European, International and American standards and meets the quality and performance criteria needed to support all applications up to 500 MHz.

Aginode LANmark-6A unscreened connector features a noise immunity rear cover which ensures the stringent internal and Alien Crosstalk requirements for Category 6A are met.

The connector format is designed to perfectly match Aginode keystone patch panel and keystone outlet modules, whilst offering compatibility with keystone format structural hardware available in the marketplace.

- 10baseT Ethernet
- 100baseTX Fast Ethernet
- 1000base-T Gigabit Ethernet
- 10GBase-T 10 Gigabit Ethernet
- 155 Mbit ATM
- 1.2 Gbit ATM
- Future Cat 6A and Class EA Applications

Characteristics

- Color code: T568A and T568B
- Development for unshielded systems
- UL Listed
- Tool free installation
- Supports repeated terminations
- Tracebility code on the connector
- In line with IEEE802.3af (POE); IEEE802.3at (POE +) supports POE + applications and each pair of lines can transmit 15W power; IEEE802.3bt (POE++), support POE++ applications, each pair of lines can transmit 20W power

Reference Standards

- ISO/IEC 11801
- ANSI/TIA-568.2-D

Reference Standards

Maximum contact impedance	20m Ohm
Maximum DC impedance	200m Ohm
Insulation impedance	500m Ohm
Withstand voltage (peak)	1000V DC/AC

Product List

Aginode ref.	Description	Specification W x H x D mm
N420.216	LANmark-6A Keystone Connector Category 6A Unscreened	17.3x21.4x35.8

Category 6A Screened Copper Connector

Application

LANmark-6A screened connectors comply with the specifications of Class EA/ Cat6A described in ISO/IEC 11801 and ANSI/TIA-568.2-D. Supports bandwidth up to 500MHz. The connector has FTP form and 360° full shielding design. The connectors with SNAP-IN modular design are suitable for all LANmark Aginode modular structural hardware, making installation faster and more convenient. Supports very short links to meet data centre needs. EVO wiring mode, faster and more reliable termination with shorter size to ensure the minimum bend radius when terminating onto a faceplate.

- 10baseT Ethernet
- 100baseTX Fast Ethernet
- 1000base-T Gigabit Ethernet
- 1000Base-TX
- 10GBase-T 10Gigabit Ethernet IEEE 802.3
- 155 Mbit ATM
- 1.2 Gbit ATM

EVO

Shorter, quicker, easier...

10G

10 Gigabit Ethernet

Characteristics

- Color code: T568A and T568B
- The connectors can be terminated with 22-24AWG or 24-27AWG cables
- Connectable cable: F/UTP, F1/UTP, F2/UTP, F/FTP, U/UTP, SF/UTP, S/FTP
- UL Listed
- Clips for Keystone (optional, see page 150)
- Support of repeated terminations
- Double grounding guarantee: connector grounding and tail cover grounding
- Tracebility code on the connector
- In line with IEEE802.3af (POE); IEEE802.3at (POE+) supports POE+ applications and each pair of lines can transmit 15W power; IEEE802.3bt (POE++), support POE++ applications, each pair of lines can transmit 20W power

Reference Standards

- ISO/IEC 11801
- ANSI/TIA-568.2-D

Reference Standards

Maximum contact impedance	20m Ohm
Maximum DC impedance	200m Ohm
Insulation impedance	500m Ohm
Withstand voltage (peak)	1000V DC/AC

Product List

Aginode ref.	Description	Specification W x H x D mm
N420.66A	LANmark-6A EVO Snap-In Cat6A Screened connector, 22~24AWG	16.8x23.2x36.4
N420.67A	LANmark-6A EVO Snap-In Cat6A Screened connector, 24~27AWG	16.8x23.2x36.4

Category 6A Field Terminable Plug

Application

LANmark-6A Field Terminable Plug is design for MPTL connections to fully comply with the requirements specified in standard TIA 568-2.D and drafted ISO/ IEC TR11801-9910 ED1. Nowadays, there is an increasing demand for patch panel and equipment networks to be directly connected to the network. MPTL is used to directly connect certain devices that are difficult to install in outlets or other junction boxes and in situations that power supply is required through network POE, such as wireless access networks and IP cameras.

Features

- Support MPTL connection with fast installation Cat 6A plug.
- Cables single conductor diameter is AWG24-AWG23
- Cable diameter is 6.0-8.5 mm
- 360° fully shielded can avoid external crosstalk
- Integrated plastic Snap-on tail sleeve with enhanced stress relief, locking nut and shrapnel protection.
- Color management can be realized
- Easy to terminate, without termination tools required
- Terminatied line order T568B
- Support all Class EA applications
- Support POE, POE+, POE++ applications

Reference Standards

- EN 50173-1
- IEC 60603-7-51
- IEEE 802.3af (PoE)
- IEEE 802.3bt (PoE++)
- IEEE 802.3at (PoE+)
- ISO/IEC 11801
- ANSI/TIA 568.2-D

Other Properties

Temperature (installation)	-10°C to 50°C
Temperature (operating)	-20°C to 60°C
IP level	IP20

Product List

Aginode ref.	Description
N490.001	LANmark-6A Field Terminable Plug Category 6A Screened 24PCS/bag

Category 7A/8 Copper Connector

Application

The LANmark GG45 connector is a breakthrough invention that supports 2000MHz and is backwards compatible with RJ45 ports for existing 10G applications and for future 40G and higher applications. Compared with Cat6A connectors, the GG45 connector doubles the bandwidth and reduces crosstalk by half. GG45 supports two modes on the same connector, RJ mode supports RJ45 connector, and GG mode supports bandwidth up to 2000 MHz.

- 10baseT Ethernet
- 100baseTX Fast Ethernet
- 1000baseTX Gigabit Ethernet
- 1000baseTX
- 10GBase-T 10Gigabit Etherent IEEE 802.3
- 155Mbit ATM
- 1.2Gbit ATM
- POE plus IEEE 802.3at
- POE plus plus IEEE 802.3bt
- CATV up to 862MHz
- Cat6A/Class EA Application
- Cat7/Class F Application
- Cat7A/Class FA Application
- Cat8 and Class I/II Application

GG45 Revolutionary 2 in 1 connector technology

40G 40 Gigabit

Characteristics

- LANmark GG45 module complies with the specifications of Class FA/Class I/II described in ISO/IEC 11801 respectively
- First Cat7A/Cat8 connector backward compatible with RJ45 port, that is Aginode patented GG45 connector
- Bandwidth support up to 1000MHZ (Cat7A)/2000MHZ (Cat8)
- 360° full screening design
- SNAP-IN modular design fits in all Aginode modular structural hardware
- Color code: T568A and T568B
- The connectors can be terminated with 22-24AWG or 24-27AWG cables
- Suitable cables: F/UTP, F1/UTP, F2/UTP, U/UTP, SF/UTP, S/FTP

Reference Standards

- ISO/IEC 11801
- ANSI/TIA-568.2-D

Product List

Aginode ref.	Description	Specification W x H x D mm
N420.735	LANmark GG45 Snap-In Cat7A/8 Screened connectors, 22~24AWG	17x19.5x41.4
N420.736	LANmark GG45 Snap-In Cat7A/8 Screened connectors, 24~27AWG	17x19.5x41.4
N420.738	LANmark GG45 Cat7A，Screened，1500MHz (PCB amount)	15.3x13.5x21.9

essential Copper Patch Cord

Application

Aginode's copper patch cord fully meets the requirements of ISO/IEC 11801 and ANSI/TIA-568.2-D for patch cord and channel performance, ensuring the transmission of the entire channel. Used in conjunction with the connectors and cables of LANmark or essential series, the patch cord can meet the 4-connections channel requirements specified in ISO/IEC 11801 and TIA/EIA 568 C.2.

Characteristics

- Cat 5e, Cat 6 series performance grade patch cords are available for all relevant application
- High reliability RJ45 connector, conforming to ISO 8877 standard
- Special design of internal core management with self-locking connector
- Unscreened and screened patch cords are available to meet the needs of a variety of use environment
- The Cat 6 patch cord adopts C3 technology to enhance cable strength and reduce crosstalk
- PVC and LSZH jackets are available
- 1, 2, 3, 5 m are standard length, patch cord with other length are available on request
- Multiple color patch cords are available to make installation and maintenance more convenient
- Connector cover with stress relief device
- Mating cycles more than 1000 times

Reference Standards

- IEC 60603-7
- ISO/IEC 11801

Environmental Characteristics

Temperature (installation)	-10°C to 50°C
Temperature (Operation)	-20°C to 60°C
Low smoke (LSZH jacket)	IEC 61034-2
Halogen free (LSZH jacket)	IEC 60754-1&2

Numbering Rules

N101 . A B C D E F

Description		
A: Jacket grade	1: PVC	
	2: LSZH	
B: Shielding Type	1: U/UTP	
C: Performance levels	2: essential-5	
	E: essential-6	
D: Length	C: 1m	F: 3m
	E: 2m	H: 5m
E: Jacket Color	O: Orange	
	G: Dark Grey	
F: Latch protector color	O: Orange Suitable for essential series	
	G: Light Grey Suitable for essential series	

Product List

essential-5

Aginode ref.	Description	Length m	Jacket Color
N101.112CGG	essential-5 Cat 5e Unscreened Patch Cord PVC 1m, Light Grey	1	Light Grey
N101.112EGG	essential-5 Cat 5e Unscreened Patch Cord PVC 2m, Light Grey	2	Light Grey
N101.112FGG	essential-5 Cat 5e Unscreened Patch Cord PVC 3m, Light Grey	3	Light Grey
N101.112HGG	essential-5 Cat 5e Unscreened Patch Cord PVC 5m, Light Grey	5	Light Grey

essential-6

Aginode ref.	Description	Length m	Jacket Color
N101.11ECGG	essential-6 Cat 6 Unscreened Patch Cord PVC 1m, Light Grey	1	Light Grey
N101.11EEGG	essential-6 Cat 6 Unscreened Patch Cord PVC 2m, Light Grey	2	Light Grey
N101.11EFGG	essential-6 Cat 6 Unscreened Patch Cord PVC 3m, Light Grey	3	Light Grey
N101.11EHGG	essential-6 Cat 6 Unscreened Patch Cord PVC 5m, Light Grey	5	Light Grey
N101.21ECOO	essential-6 Cat 6 Unscreened Patch Cord LSZH 1m, Orange	1	Orange
N101.21EEOO	essential-6 Cat 6 Unscreened Patch Cord LSZH 2m, Orange	2	Orange
N101.21EFOO	essential-6 Cat 6 Unscreened Patch Cord LSZH 3m, Orange	3	Orange
N101.21EHOO	essential-6 Cat 6 Unscreened Patch Cord LSZH 5m, Orange	5	Orange

* Please contact Aginode local sales for customization of other length and color

LANmark UniBoot Patch Cord

Application

LANmark new UniBoot copper patch cord fully meets the requirements of ISO/IEC 11801 and ANSI/TIA-568.2-D for patch cord and channel performance, ensuring the transmission of the entire channel.

The UniBoot series patch cord features a long tail-shaped injection molding tail cover that is similar in size to a standard RJ45 size and can support 48-port high-density patching in a 1U rack space. The patch cord end cover has a removable latch protector which is available in multiple colors. Cable jackets are also available in a variety of colors.

Characteristics

- Cat5e, Cat6, Cat6 10G, Cat6A series of performance level patch cords are available to meet all applications of the corresponding performance level
- High reliability RJ45 connector, conforming to ISO 8877 standard
- Supporting high density patching
- Special design of internal core management with self-locking connector
- Unscreened and screened patch cords are available to meet the needs of a variety of use environment
- The Cat 6 patch cord adopts C3 technology to enhance cable strength and reduce crosstalk
- PVC and LSZH jackets are available
- The standard lengths include 1m, 2m, 3m, and 5m, and the patch cord with length within 30m can be customized.
- Unshielded cables of Category 6 are available in solid-core LSZH orange patch cord with a standard length of 30m. For longer lengths, please contact your local sales office.
- Multiple color patch cords can be customized to make installation and maintenance more convenient
- Connector cover with stress relief device
- Mating cycles more than 1000 times

Reference Standards

- IEC 60603-7
- ISO/IEC 11801
- ANSI/TIA-568.2-D

Environmental characteristics

Temperature (installation)	-10°C to 50°C
Temperature (Operation)	-20°C to 60°C
Low smoke (LSZH jacket)	IEC 61034-2
Halogen free (LSZH jacket)	IEC 60754-1&2
Flame retardant (CM)	UL1581

Numbering Rules

N11 [A] . [B] [C] [D] [XXX] [E] [G]

Description					
A: Performance levels	5: LANmark-5		XXX: Patch cord length	Increase by 0.5 m, e.g.: 050 = 5 m, 055 = 5.5 m	
	6: LANmark-6		E: Jacket Color	O: Orange	g: Green
	G: LANmark-6 10G			D: Dark Grey	B: Blue
	A: LANmark-6A			R: Red	
B: Product Type	P: Normal patch cord	S: Solid patch cord	g: Patch cord latch protector color	O: Orange	g: Green
	U: Ultim patch cord			D: Dark Grey	B: Blue
C: Jacket grade	1: LSZH			R: Red	K: Black
	2: PVC			W: White	U: Not Applicable
	9: UL CM				
D: Cable Structure	A: UTP				
	B: F/UTP				
	F: U/FTP				
	U: 6A UTP				

Product List

LANmark-5 UniBoot

Aginode ref.	Description	Conductor Specification	Structure	Length m	Jacket Color
N115.P1A010OU	LANmark-5 UniBoot Patch Cord Cat 5e Unscreened LSZH 1m, Orange	24AWG	U/UTP	1	Orange
N115.P1A020OU	LANmark-5 UniBoot Patch Cord Cat 5e Unscreened LSZH 2m, Orange	24AWG	U/UTP	2	Orange
N115.P1A030OU	LANmark-5 UniBoot Patch Cord Cat 5e Unscreened LSZH 3m, Orange	24AWG	U/UTP	3	Orange
N115.P1A050OU	LANmark-5 UniBoot Patch Cord Cat 5e Unscreened LSZH 5m, Orange	24AWG	U/UTP	5	Orange
N115.P2A010DU	LANmark-5 UniBoot Patch Cord Cat 5e Unscreened PVC 1m, Grey	24AWG	U/UTP	1	Grey
N115.P2A020DU	LANmark-5 UniBoot Patch Cord Cat 5e Unscreened PVC 2m, Grey	24AWG	U/UTP	2	Grey
N115.P2A030DU	LANmark-5 UniBoot Patch Cord Cat 5e Unscreened PVC 3m, Grey	24AWG	U/UTP	3	Grey
N115.P2A050DU	LANmark-5 UniBoot Patch Cord Cat 5e Unscreened PVC 5m, Grey	24AWG	U/UTP	5	Grey
N115.P1B010OU	LANmark-5 UniBoot Patch Cord Cat 5e Screened LSZH 1m, Orange	26AWG	F/UTP	1	Orange
N115.P1B020OU	LANmark-5 UniBoot Patch Cord Cat 5e Screened LSZH 2m, Orange	26AWG	F/UTP	2	Orange
N115.P1B030OU	LANmark-5 UniBoot Patch Cord Cat 5e Screened LSZH 3m, Orange	26AWG	F/UTP	3	Orange
N115.P1B050OU	LANmark-5 UniBoot Patch Cord Cat 5e Screened LSZH 5m, Orange	26AWG	F/UTP	5	Orange
N115.P2B010DU	LANmark-5 UniBoot Patch Cord Cat 5e Screened PVC 1m, Grey	26AWG	F/UTP	1	Grey
N115.P2B020DU	LANmark-5 UniBootPatch Cord Cat 5e Screened PVC 2m, Grey	26AWG	F/UTP	2	Grey
N115.P2B030DU	LANmark-5 UniBoot Patch Cord Cat 5e Screened PVC 3m, Grey	26AWG	F/UTP	3	Grey
N115.P2B050DU	LANmark-5 UniBoot Patch Cord Cat 5e Screened PVC 5m, Grey	26AWG	F/UTP	5	Grey

LANmark-6 UniBoot

Aginode ref.	Description	Conductor Specification	Structure	Length m	Jacket Color
N116.S1A300OK	LANmark-6 UniBoot Patch Cord Cat 6 Unscreened LSZH 30m, Orange	23AWG	U/UTP	30	Orange
N116.P1A010OK	LANmark-6 UniBoot Patch Cord Cat 6 Unscreened LSZH 1m, Orange	24AWG	U/UTP	1	Orange
N116.P1A020OK	LANmark-6 UniBoot Patch Cord Cat 6 Unscreened LSZH 2m, Orange	24AWG	U/UTP	2	Orange
N116.P1A030OK	LANmark-6 UniBoot Patch Cord Cat 6 Unscreened LSZH 3m, Orange	24AWG	U/UTP	3	Orange
N116.P1A050OK	LANmark-6 UniBoot Patch Cord Cat 6 Unscreened LSZH 5m, Orange	24AWG	U/UTP	5	Orange
N116.P2A010DK	LANmark-6 UniBoot Patch Cord Cat 6 Unscreened PVC 1m, Grey	24AWG	U/UTP	1	Grey
N116.P2A020DK	LANmark-6 UniBoot Patch Cord Cat 6 Unscreened PVC 2m, Grey	24AWG	U/UTP	2	Grey
N116.P2A030DK	LANmark-6 UniBoot Patch Cord Cat 6 Unscreened PVC 3m, Grey	24AWG	U/UTP	3	Grey

LANmark-6 UniBoot (continue)

Aginode ref.	Description	Conductor Specification	Structure	Length m	Jacket Color
N116.P2A050DK	LANmark-6 UniBoot Patch Cord Cat 6 Unscreened PVC 5m, Grey	24AWG	U/UTP	5	Grey
N116.P9A010DK	LANmark-6 UniBoot Patch Cord Cat 6 Unscreened UL CM 1m, Grey	24AWG	U/UTP	1	Grey
N116.P9A020DK	LANmark-6 UniBoot Patch Cord Cat 6 Unscreened UL CM 2m, Grey	24AWG	U/UTP	2	Grey
N116.P9A030DK	LANmark-6 UniBoot Patch Cord Cat 6 Unscreened UL CM 3m, Grey	24AWG	U/UTP	3	Grey
N116.P9A050DK	LANmark-6 UniBoot Patch Cord Cat 6 Unscreened UL CM 5m, Grey	24AWG	U/UTP	5	Grey

LANmark-6 10G UniBoot

Aginode ref.	Description	Conductor Specification	Structure	Length m	Jacket Color
N11G.P1B010OK	LANmark-6 10G UniBoot Patch Cord Cat 6 10G Screened 500MHz LSZH 1m, Orange	26AWG	F/UTP	1	Orange
N11G.P1B020OK	LANmark-6 10G UniBoot Patch Cord Cat 6 10G Screened 500MHz LSZH 2m, Orange	26AWG	F/UTP	2	Orange
N11G.P1B030OK	LANmark-6 10G UniBoot Patch Cord Cat 6 10G Screened 500MHz LSZH 3m, Orange	26AWG	F/UTP	3	Orange
N11G.P1B050OK	LANmark-6 10G UniBoot Patch Cord Cat 6 10G Screened 500MHz LSZH 5m, Orange	26AWG	F/UTP	5	Orange

LANmark-6A UniBoot

Aginode ref.	Description	Conductor Specification	Structure	Length m	Jacket Color
N11A.U1F010OK	LANmark-6A Ultim UniBoot Patch Cord Cat 6A Screened LSZH 1m, Orange	26AWG	U/FTP	1	Orange
N11A.U1F020OK	LANmark-6A Ultim UniBoot Patch Cord Cat 6A Screened LSZH 2m, Orange	26AWG	U/FTP	2	Orange
N11A.U1F030OK	LANmark-6A Ultim UniBoot Patch Cord Cat 6A Screened LSZH 3m, Orange	26AWG	U/FTP	3	Orange
N11A.U1F050OK	LANmark-6A Ultim UniBoot Patch Cord Cat 6A Screened LSZH 5m, Orange	26AWG	U/FTP	5	Orange
N11A.P9F010OK	LANmark-6A Ultim UniBoot Patch Cord Cat 6A Screened UL CM 1m, Orange	26AWG	U/FTP	1	Orange
N11A.P9F020OK	LANmark-6A Ultim UniBoot Patch Cord Cat 6A Screened UL CM 2m, Orange	26AWG	U/FTP	2	Orange
N11A.P9F030OK	LANmark-6A Ultim UniBoot Patch Cord Cat 6A Screened UL CM 3m, Orange	26AWG	U/FTP	3	Orange
N11A.P9F050OK	LANmark-6A Ultim UniBoot Patch Cord Cat 6A Screened UL CM 5m, Orange	26AWG	U/FTP	5	Orange
N11A.P1U010OK	LANmark-6A Ultim UniBoot Patch Cord Cat 6A Unscreened LSZH 1m, Orange	26AWG	U/UTP	1	Orange
N11A.P1U020OK	LANmark-6A Ultim UniBoot Patch Cord Cat 6A Unscreened LSZH 2m, Orange	26AWG	U/UTP	2	Orange
N11A.P1U030OK	LANmark-6A Ultim UniBoot Patch Cord Cat 6A Unscreened LSZH 3m, Orange	26AWG	U/UTP	3	Orange
N11A.P1U050OK	LANmark-6A Ultim UniBoot Patch Cord Cat 6A Unscreened LSZH 5m, Orange	26AWG	U/UTP	5	Orange

* Please contact Aginode local sales for customization of other length and color

Latch protector

Aginode ref.	Description
N110.LPW	LANmark Latch Protector, White
N110.LPR	LANmark Latch Protector, Red
N110.LPY	LANmark Latch Protector, Yellow
N110.LPK	LANmark Latch Protector, Black
N110.LPD	LANmark Latch Protector, Dark Grey
N110.LPB	LANmark Latch Protector, Blue
N110.LPG	LANmark Latch Protector, Green
N110.LPO	LANmark Latch Protector, Orange

LANmark SlimFlex Patch Cord

Application

The LANmark SlimFlex series of ultra-slim patch cord meet and exceed the standard ISO/IEC 11801 and ANSI/TIA 568.2-D.The series offers two performance levels-Cat 6 and Cat 6A, which meet meet all applications of the corresponding level.Compared to conventional products with the same performance level, the SlimFlex series of patch cord are thinner and more flexible.Reduced wire diameter leads to space savings.

Characteristics

- Suitable for high-density patch cord installation areas
- More reliable RJ45 connector, conforming to ISO 8877 standard
- Default white LSZH jacket, with various colors available upon request
- The standard length are 1, 2, 3, 5 m, other length are available on request
- Universal Uniboot tail cover, default black cap
- There are 7 colors for the caps, convenient for application in different scenarios

Reference Standards

- EN 50173-1
- IEEE 802.3an
- ISO/IEC 11801
- ISO/IEC TR24750
- ANSI/TIA-568.2-D
- ANSI/TIA-TSB-155

Environmental characteristics

Temperature (installation)	-10°C to 50°C
Temperature (Operation)	-20°C to 60°C
Low smoke performance	IEC 61034-2
Halogen free performance	IEC 60754-1&2
Flame retardant	IEC 60332-1

Numbering Rules

N1S [A] P1 [B] [XXX] [C] [D]

Description		
A: Performance levels	6: LANmark-6	
	A: LANmark-6A	
XXX: Patch cord length	Increase by 0.5 m, e.g.: 050 = 5 m, 055 = 5.5 m	
B: Cable Structure	A: U/UTP	M: AWG28 UTP Solid
	H: AWG30 S/FTP	J: AWG28 S/FTP
C: Jacket Color	O: Orange	G: Green
	D: Dark Grey	B: Blue
	R: Red	W: White
D: Patch cord latch protector color	O: Orange	G: Green
	D: Dark Grey	B: Blue
	R: Red	K: Black
	W: White	U: Not Applicable

Product List

LANmark-6 SlimFlex

Aginode ref.	Description	Conductor Specification	Length m	Jacket Color
N1S6.P1A010WK	LANmark-6 SlimFlex Unscreened Patch Cord LSZH 1m, White	28AWG	1	White
N1S6.P1A020WK	LANmark-6 SlimFlex Unscreened Patch Cord LSZH 2m, White	28AWG	2	White
N1S6.P1A030WK	LANmark-6 SlimFlex Unscreened Patch Cord LSZH 3m, White	28AWG	3	White
N1S6.P1A050WK	LANmark-6 SlimFlex Unscreened Patch Cord LSZH 5m, White	28AWG	5	White

LANmark-6A SlimFlex

Aginode ref.	Description	Conductor Specification	Length m	Jacket Color
N1SA.P1M010WK	LANmark-6A UTP Slimflex Solid Patch Cord Cat 6A RJ45 LSZH 1m, White	28AWG	1	White
N1SA.P1M020WK	LANmark-6A UTP Slimflex Solid Patch Cord Cat 6A RJ45 LSZH 2m, White	28AWG	2	White
N1SA.P1M030WK	LANmark-6A UTP Slimflex Solid Patch Cord Cat 6A RJ45 LSZH 3m, White	28AWG	3	White
N1SA.P1M050WK	LANmark-6A UTP Slimflex Solid Patch Cord Cat 6A RJ45 LSZH 5m, White	28AWG	5	White
N1SA.P1J010WK	LANmark-6A SlimFlex Patch Cord Cat 6A S/FTP Screened LSZH 1m, White	28AWG	1	White
N1SA.P1J020WK	LANmark-6A SlimFlex Patch Cord Cat 6A S/FTP Screened LSZH 2m, White	28AWG	2	White
N1SA.P1J030WK	LANmark-6A SlimFlex Patch Cord Cat 6A S/FTP Screened LSZH 3m, White	28AWG	3	White
N1SA.P1J050WK	LANmark-6A SlimFlex Patch Cord Cat 6A S/FTP Screened LSZH 5m, White	28AWG	5	White
N1SA.P1H010WK	LANmark-6A SlimFlex Patch Cord Cat 6A S/FTP Screened LSZH 1m, White	30AWG	1	White
N1SA.P1H020WK	LANmark-6A SlimFlex Patch Cord Cat 6A S/FTP Screened LSZH 2m, White	30AWG	2	White
N1SA.P1H030WK	LANmark-6A SlimFlex Patch Cord Cat 6A S/FTP Screened LSZH 3m, White	30AWG	3	White
N1SA.P1H050WK	LANmark-6A SlimFlex Patch Cord Cat 6A S/FTP Screened LSZH 5m, White	30AWG	5	White

Latch Protector

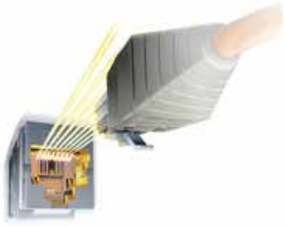
Aginode ref.	Description
N110.LPW	LANmark UniBoot Patch Cord Gland White
N110.LPR	LANmark UniBoot Patch Cord Gland Red
N110.LPY	LANmark UniBoot Patch Cord Gland Yellow
N110.LPK	LANmark UniBoot Patch Cord Gland Black
N110.LPD	LANmark UniBoot Patch Cord Gland Dark Grey
N110.LPB	LANmark UniBoot Patch Cord Gland Blue
N110.LPG	LANmark UniBoot Patch Cord Gland Green
N110.LPO	LANmark UniBoot Patch Cord Gland Orange

* Please contact Aginode local sales for customization of other length and color

LANmark-7/7A GG45 Patch Cord

Application

Aginode LANmark-7/7A patch cord features a backwards compatible GG45 connector interface unique to Aginode. The GG45 patch cord uses a shielding technology doubling the bandwidth of the entire channel while reducing the crosstalk by half. The channel composed of LANmark-7A patch cord and GG45 connector can support up to 1250 MHz.



Characteristics

- Self-locking GG45 connector, conforming to IEC 61076-3-110 standard
- Exceeds the 4-connections channel requirements for Class F/FA described in ISO 11801
- Class F conforms to ISO 15018 civil building BCT application standard
- Meeting 40G application requirements
- Use with GG45 connector to achieve 1000MHz bandwidth
- LSZH jacket
- 1, 2, 3, 5m are standard lengths
- Orange is the standard color, other colors are available on request
- Mating cycles more than 1000 times

Reference Standards

- IEC 60603-7
- IEC 61076-3-110
- ISO/IEC 11801

Environmental Characteristics

Temperature (installation)	-10°C to 50°C
Temperature (Operation)	-20°C to 60°C
Low smoke (LSZH jacket)	IEC 61034-2
Halogen free (LSZH jacket)	IEC 60754-1&2

Product List

LANmark-7A GG45

Aginode ref.	Description	Length m	Jacket Color
N101.23AEO	LANmark-7A Cat 7A Screened Patch Cord GG45-GG45 LSZH 2m, Orange	2	Orange
N101.23AFO	LANmark-7A Cat 7A Screened Patch Cord GG45-GG45 LSZH 3m, Orange	3	Orange
N101.23AHO	LANmark-7A Cat 7A Screened Patch Cord GG45-GG45 LSZH 5m, Orange	5	Orange
N101.23AOO	LANmark-7A Cat 7A Screened Patch Cord GG45-GG45 LSZH 10m, Orange	10	Orange
N101.23ARO	LANmark-7A Cat 7A Screened Patch Cord GG45-GG45 LSZH 20m, Orange	20	Orange
N900.67A	GG45 Screened Test Patch Cord Cat7A LSZH 2m, Orange	2	Orange

* Please contact Aginode local sales for customization of other length and color

LANmark-8 Patch Cord

Application

The Aginode LANmark-8 patch cord features a backwards compatible GG45 connector interface unique to Aginode. The channel composed of LANmark-8 patch cord and GG45 connector can support up to 2000MHz.

Characteristics

- Self-locking GG45 connector, conforming to IEC 61076-3-110 standard
- Exceeding the 4-connections channel requirements of Class FA and meets the 2-connections channel requirements of Class II
- Meeting 40G application requirements
- Use with GG45 connector to achieve 2000MHz bandwidth
- LSZH jacket
- 1, 2, 3m are standard lengths
- Orange is the standard color, other colors are available on request
- Mating cycles more than 1000 times

Reference Standards

- IEC 60603-7
- IEC 61076-3-110
- ISO/IEC 11801

Environmental Characteristics

Temperature (installation)	-10°C to 50°C
Temperature (Operation)	-20°C to 60°C
Low smoke (LSZH jacket)	IEC 61034-2
Halogen free (LSZH jacket)	IEC 60754-1&2

Product List

Aginode ref.	Description	Length m	Jacket Color
N101.238O100	LANmark-8 Cat 8 Screened Patch Cord GG45-GG45 LSZH 1m, Orange	1	Orange
N101.238O200	LANmark-8 Cat 8 Screened Patch Cord GG45-GG45 LSZH 2m, Orange	2	Orange
N101.238O300	LANmark-8 Cat 8 Screened Patch Cord GG45-GG45 LSZH 3m, Orange	3	Orange
N900.680	GG45 Screened Test Patch Cord Cat8 LSZH 2m, Blue	2	Blue

* Please contact Aginode local sales for customization of other length and color

essential Copper Patch Panel

Application

essential unscreened patch panels are pre-assembled and can be installed in a standard 19" cabinet. The patch panel adopts fixed structure, and the back end adopts IDC termination mode to allow quick termination. essential-5 meets the requirements for Class D/ Cat5e described in ISO/ IEC 11801 and ANSI/TIA-568.2-D; essential-6 meets the requirements for Class E/ Cat6 described in ISO/IEC 11801 and ANSI/TIA-568.2-D;

Characteristics

- White and black are available
- Fixed patch panel
- Front end has its own cable port labelling system for convenient system maintenance after installation
- Use with the patch guides for orderly management of patch cords
- Color code: T568A and T568B
- Support for 110 and LSA plus punchdown tools with DC termination mode
- Can be terminated with 22, 23, 24 AWG cables
- A Modular version patch panel for Keystone connectors is available

Reference Standards

- ISO/IEC 11801

Product List

Aginode ref.	Description	Length mm
N500.204	essential-5 PCB Cat 5e Unscreened Patch Panel 24 RJ45 Snap-in 1U, Black	28.4
N500.206	essential-6 PCB Cat 6 Unscreened Patch Panel 24 RJ45 Snap-in 1U, Black	28.4
N500.206CH	essential-6 PCB Cat 6 Unscreened Patch Panel 24 RJ45 Snap-in 1U, with replaceable tag, Black	28.4
N500.208CH	essential-6 Cat 6 Unscreened Patch Panel 48 RJ45 Snap-in Connector Included 1U, Black	

LANmark SNAP-IN Copper Patch Panel

Application

Aginode snap-in modular empty patch panel is available in 2 versions, sliding and fixed, both of which can be installed in a standard 19" cabinet. The patch panel is suitable for all Aginode SNAP-IN data connectors (LANmark-5, LANmark-6/6A, LANmark-7/7A, essential) and can host 24 SNAP-IN connectors with shutters on the ports, which can effectively protect against the influence of dust and water vapor on copper cable ports. The front end is provided with its own cable port labelling system for convenient system maintenance after installation. The patch panel integrates clip-on cable lead frame to ensure fast and effective grounding.

Sliding patch panel with mechanical sliding device can be easily managed after installation in the cabinet. Encapsulated EMC shell can effectively reduce the environmental impact.

Characteristics

- 24 connectors can be fitted into within 1U space
- Fixed or sliding structure available, sliding structure supporting front-end wiring
- Screened/unscreened available
- For SNAP-IN copper connectors
- White and Black available
- Front end with its own cable port labelling system for convenient system maintenance after installation
- With removable shutter on the port, 8 types of color management
- Integrating clip-on cable lead frame to ensure fast and effective grounding

Product List

Aginode ref.	Description	Length mm
N521.661	LANmark 24 Snap-In Patch Panel, Fixed, White 1HU	66
N521.661BK	LANmark 24 Snap-In Patch Panel, Fixed, Black 1HU	66
N521.663	LANmark 24 Snap-In Patch Panel, Sliding 1HU, White	123
N521.663BK	LANmark 24 Snap-In Patch Panel, Sliding 1HU, Black	123

Color Shutter

Aginode ref.	Description
N421.701BLA	LANmark Shutter, Black 100 Pcs/Set
N421.701BLU	LANmark Shutter, Blue 100 Pcs/Set
N421.701DGR	LANmark Shutter, Dark Grey 100 Pcs/Set
N421.701GRE	LANmark Shutter, Green 100 Pcs/Set
N421.701ORA	LANmark Shutter, Orange 100 Pcs/Set
N421.701RED	LANmark Shutter, Red 100 Pcs/Set
N421.701YEL	LANmark Shutter, Yellow 100 Pcs/Set
N421.701WHI	LANmark Shutter, White 100 Pcs/Set

LANmark Keystone Copper Patch Panel

Application

Aginode modular patch panels for keystone connectors are based on 19" frame dimensions and can accommodate up to 24 keystone connectors on 1U.

The LANmark-6A keystone connectors can be easily latched in place without the need for a tool. They are also easy to remove from the panel when necessary.

The panel features rear cable management for tie-wraps to retain the cable and provide strain relief and is supplied with the necessary rack fixings.

Characteristics

- Fixed structure, with rear cable management
- Applicable for keystone connectors
- Black
- The port comes with cable port identification system for easy maintenance after installation

Product List

Aginode ref.	Description	Depth mm
N521.660BK	24-port Keystone patch panel, 1HU, Black	82
N521.6671BK	24-port Keystone patch panel, staggered, 1HU Black	120

LANmark SNAP-IN Copper High Density Patch Panel

Application

This high density copper patch panel adopts Snap-IN special connectors, whose performance complies with the requirements for Class EA/Cat6A described in ISO/IEC 11801 and ANSI/TIA-568.2-D. The patch panel comes packed with instructions and 48 connectors.

Characteristics

- 48 connectors can be fitted into within 1U space
- More robust structure that allows 48 cables to be managed at the same time
- Front-end with its own cable port identification system for convenient maintenance after installation
- The connectors are installed in a transverse symmetric way to allow easy plugging and unplugging of the patch cord
- The Connector model is N420.66A-HD with SNAP IN structure and is smaller than the conventional LANmark-6A Connector in dimensions
- Fast and effective grounding protection is available
- Color code: T568A and T568B

Reference Standards

- ISO/IEC 11801
- ANSI/TIA-568.2-D

Product List

Aginode ref.	Description	Length mm
N521.668KIT	LANmark 48-port Snap-In Patch Panel Set 48 Ports Cat6A Module 1HU Black	170

LANmark Angled SNAP-IN Patch Panel

Application

The LANmark Panel angled connectors is a shielded 19”/1U patch panel with a fixed tray for up to 24 regular RJ45/GG45 Snap-In connectors, which are mounted in an angled position inside the panel.

Six Dual Port Packs are mounted on each side, so that 12 connectors pointing to the left side and 12 connectors pointing to the right side.

Due to the angled design of the Dual Port Packs, it is possible to patch without any cable management panel above or below the LANmark Panel. Snap-In connectors can be easily fitted into the patch panel by using blue Keystone Clips, which are delivered with the panel. The packaging of the panel does not contain connectors but is including 24 Keystone Clips for Snap-In connectors.

The patch panels are designed for standard 19" enclosures, are 1U high, and support.

Features

- Front colour black, similar to RAL 9005
- Designed for screened and unscreened Snap-In connectors
- Compatible with all performance categories of connector
- 24 Ports available; port numbering from left to right
- Robust steel construction
- UL94V-0

Product List

Aginode ref.	Description	Length mm
N521.681BK	LANmark Patch Panel 24 Angled Snap-In Black Cable Support	19in*75mm

Zone Distribution Box

Application

- Designed for use as consolidation point in channel installation, the zone distribution box increases the flexibility of links. Particularly useful in offices where frequent relocation of outlets in the work area is required
- For data or fibre consolidation points
- Compatible with SNAP-IN copper cable or SNAP-IN fibre adaptor LC duplex /SC simplex /SC duplex
- 6/12 port flip-open shutter
- The fibre zone distribution box is suitable for direct termination or the use of pigtails
- The rear of the box can accommodate copper and fibre cables
- Aginode unique structural design

Characteristics

- Easily plugged into Aginode's module with modular design
- Back threading:with two pre-perforations on the back and one pre-perforations at the bottom tray for ease of threading
- Identification system
- Scope of applied voltage: <36V

Product List

Aginode ref.	Description	Specification W x H x D mm
N521.600	LANmark 12 Snap-In Modular ZD Box, White (empty)	230x200x45
N521.606	LANmark 6 Snap-In Modular ZD Box, White (empty)	120x125x42
N521.606BK	LANmark 6 Snap-In Modular ZD Box, Black (empty)	120x125x42
N521.612	LANmark 12 Snap-In Modular Locking ZD Box with Key, White (empty)	260x330x55
N521.6121	LANmark Modular Locking ZD Box, Mounting Rack, White	235x250x35
N521.630	LANmark-OF 12 Snap-In Modular ZD Box, White (empty)	230x200x44

Color Shutter

Aginode ref.	Description
N421.701BLA	LANmark Shutter, Black 100 Pcs/Set
N421.701BLU	LANmark Shutter, Blue 100 Pcs/Set
N421.701DGR	LANmark Shutter, Dark Grey 100 Pcs/Set
N421.701GRE	LANmark Shutter, Green 100 Pcs/Set
N421.701ORA	LANmark Shutter, Orange 100 Pcs/Set
N421.701RED	LANmark Shutter, Red 100 Pcs/Set
N421.701YEL	LANmark Shutter, Yellow 100 Pcs/Set
N421.701WHI	LANmark Shutter, White 100 Pcs/Set

UK Faceplate

Application

Designed to match the essential series of Keystone modules, this Aginode faceplate can be installed with one, two & four modules to facilitate the increase in the number of points and rational configuration of Data and Voice outlets.

Features

- UK style 86x86
- All plastic materials comply with UL 94V0
- White color
- Also available in 1 & 4 ports
- Shutter: provide dust protection for the reserved module
- Label: the label can be protected by a semi-transparent marking window

Product List

Aginode ref.	Description	Length mm
N423.630P	UK Style 86x86 Keystone Double Port faceplate, White	86x86
N423.634P	UK Style 86x86 Keystone Four Port faceplate, White	86x86
N423.635P	UK Style 86x86 Keystone Single Port faceplate, White	86x86

EU Style Faceplate

Application

Aginode faceplate has a modular design that is compatible with the existing 45x45 module adaptor. The faceplate adopts SNAP-IN Cat5e to Cat7A screened and unscreened connectors. The faceplate has removable shutter that can be replaced with different colors. The frame can be customized with different colors.

45x45 information modular panel, available in angled and flat styles. The angled style is also compatible with LANmark-OF SNAP-IN adapters.

Characteristics

- EU style 86x86 faceplate for Aginode LANmark-5, LANmark-6, LANmark-6A, LANmark-7, LANmark-7A and essential Series SNAP-IN connectors
- The embedded 45x45 module adapter for EU standard 86x86 faceplate can install LANmark-5, LANmark-6, LANmark-6A, LANmark-7, LANmark-7A and essential series SNAP-IN modules
- 45x45 shuttered modules are available in flat or angled type
- Inclined 45x45 faceplate can install LANmark-OF SNAP-IN adapters
- All plastic materials comply with UL 94V0
- White faceplate
- Shutter: removable shutter that can be replaced with color shutter (optional, see page 150)
- Label: use transparent marking window to protect the label
- Packaging: each product of the corresponding model has a separate package and with instructions and name labels

Product List

Aginode ref.	Description	Depth mm
N800.501	LANmark EU Style 86 Flat faceplate 1 Snap-In, White	86x86
N800.502	LANmark EU Style 86 Flat faceplate 2 Snap-In, White	86x86
N800.504	LANmark EU Style 86 Flat faceplate 4 Snap-In, White	86x86
N800.511	LANmark EU Style 86 Angled faceplate 1 Snap-In, White	86x86
N800.512	LANmark EU Style 86 Angled faceplate 2 Snap-In, White	86x86
N423.520	LANmark EU Style 45x45 Angled shuttered module 1 Snap-in, White	45x45
N423.540N	LANmark EU Style 45x45 Angled shuttered module 2 Snap-in, White	45x45
N423.550	LANmark EU Style 45x45 Flat shuttered module 2 Snap-in, White	45x45
N200.116	LANmark EU style 45x45 surface mount box white	82x82x50
N800.421	LANmark UK Style 45x45 rounded panel frame, white	45x45

US Faceplate

Application

Aginode American standard faceplate adopted the SNAP-IN modular setting, offering great flexibility with wide selection of 20x45 modular adapters for two-port, four-port, and six-port.

Features

- US standard 70.5x115 faceplate
- For Aginode LANmark-5, LANmark-6, LANmark-7, LANmark-7A and essential Series SNAP-IN modules
- Fibre optic adapter can also be installed
- All plastic materials comply with UL 94V0
- White plate
- Shutters: pop-up dust cover to provide shutter for reserved modules
- Label: the label can be protected by a semi-transparent label window

Product List

Aginode ref.	Description	Specification H x W x D
N420.001	LANmark US Style 20x45 empty adapter holder, white	20x45
N421.610	LANmark US Style 20x45 modular adapter holder 2 Snap-In modules, white	20x45
N422.001	LANmark US Style 45x45 panel base, white	70.5x115x14
N422.005	LANmark US Style Inclined 60x45 Module Adapters Fit for 4 GG45 Modules, White	20x45
N423.001	LANmark US Style 60x45 panel base, white	70.5x115x14
N701.141	LANmark Panel single port Fit for 1 Snap-In module for US cover plate, White	70.5x115
N701.142	LANmark Panel double port Fit for 2 Snap-In module for US cover plate, White	70.5x115
N701.144	LANmark Panel four port Fit for 4 Snap-In module for US cover plate, White	70.5x115

Voice Products

Voice Cables

Application

Aginode Cat5e and Cat3 multipair cables are suitable for voice communication.

Reference Standards

- ANSI/TIA-568.2-D
- ISO/IEC 11801
- IEC 61156-5

The transmission performance meets the transmission requirements for Cat5e and Cat3.

Environmental characteristics

Temperature (installation)	0°C to 50°C
Temperature (Operation)	-15°C to 60°C
Flame retardant (PVC jacket)	IEC 60332-1
Flame retardant (LSZH jacket)	IEC 60332-1
Low smoke (LSZH jacket)	IEC 61034-2
Halogen free (LSZH jacket)	IEC 60754-1&2

Product List

Aginode ref.	Type	Description	Jacket	Color	Nominal Weight kg	Nominal Outer Diameter mm
N100.807N	U/UTP	Voice U/UTP 25 pairs AWG24 Cat3 PVC 1000m/reel	PVC	Grey	150	11.0
N100.808N	U/UTP	Voice U/UTP 50 pairs AWG24 Cat3 PVC 1000m/reel	PVC	Grey	280	16.5
N100.809N	U/UTP	Voice U/UTP 100 pairs AWG24 Cat3 PVC 1000m/reel	PVC	Grey	545	22.5
N100.817N	U/UTP	Voice U/UTP 25 pairs AWG24 Cat3 LSZH 1000m/reel	LSZH	Orange	150	11.0
N100.818N	U/UTP	Voice U/UTP 50 pairs AWG24 Cat3 LSZH 1000m/reel	LSZH	Orange	280	16.5
N100.819N	U/UTP	Voice U/UTP 100 pairs AWG24 Cat3 LSZH 1000m/reel	LSZH	Orange	545	22.5
N100.837N	U/UTP	Voice U/UTP 25 pairs AWG24 Cat3 PE 1000m/reel	PE	Black	135	13.5
N100.838N	U/UTP	Voice U/UTP 50 pairs AWG24 Cat3 PE 1000m/reel	PE	Black	260	18.0
N100.839N	U/UTP	Voice U/UTP 100 pairs AWG24 Cat3 PE 1000m/reel	PE	Black	506	22.5
N100.M21	U/UTP	Voice U/UTP 25 pairs AWG24 Cat5e PVC Grey 1000m/reel	PVC	Grey	175	12.5
N100.M22	U/UTP	Voice U/UTP 25 pairs AWG24 Cat5e LSZH Orange 1000m/reel	LSZH	Orange	175	12.5

* Please contact Aginode local sales for other specifications and lengths.

110 Voice Patch Panel and Accessories

Application

The Aginode 110 voice patch panel, when combined with Aginode Cat5e grade products, can meet the ISO/IEC 11801 and TIA 568C.2 channel transmission standards for Class D and Cat 5e.

- The rack-mounted voice patch panel can be installed in the standard 19" cabinets. The back plate is made of high-quality cold-rolled steel and sprayed with electrostatic powder.

With 4 or 5 pairs of punch down connectors, the voice patch panel is suitable for horizontal wiring between equipment or termination of equipment. The contacts are silver plated. The patch panel also has flame retardant materials, and is robust and easy to install.

- The shell is made of PC flame retardant material.
- Front end flat concave wiring clip and built-in wire pair separation
- IDC wiring category: nickel-plated phosphorus bronze, air-closed insulation
- Clips are suitable for 22-26AWG cables
- Standard T568A and T568B line order

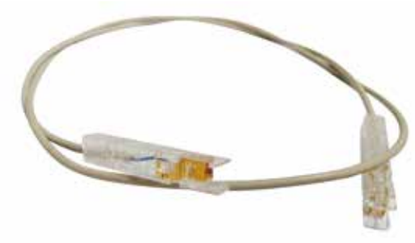
Performance Parameter

Dielectric strength	No breakdown in 1 minute at DC1000V.
Nominal current	Maximum 1.5 A
Insulation resistance	Minimum 1250 Ω between two wiring clip
Contact resistance	Maximum 10MΩ
Durability	250 times of mating cycles

Product List

Aginode ref.	Description	Specification W x H x D
N21219	Voice 110 System 4 pairs Connectors	30.4x24.05x6.2mm
N21220	Voice 110 System 5 pairs Connectors	37.9x24.05x6.2mm
N21233	Wall-mounted 50 pairs 110 Patch Panel	272x45.4x84.5mm
N21229	Wall-mounted 100 pairs 110 Patch Panel	272x90.8x84.5mm
N21231	Wall-mounted 100 pairs 110 Patch Panel	19inx1Ux58mm
N21421	1HU Single Side Route Cable Management	19inx1Ux80mm

Voice Patch Cord



Application

The patch cords are suitable for both connection between equipment or horizontal subsystems.

Characteristics

Aginode high density Voice Panels are designed to integrate voice circuits in standard structured cabling systems. Using 24AWG Cat 5e multi-stranded twisted pairs for easy installation, with great flexibility and good contact.

- 110-110/110-RJ45/4 pairs 110-RJ45 patch cord available
- 110 bonding head materials: nickel-plated phosphorus bronze, polycarbonate
- Suitable for 110 series 4 pairs /5 pairs Connectors
- Durability: 200 mating cycles
- Core jacket: LSZH

Standard

Meet or exceed the current Cat 5 voice system transmission standards

Product List

Aginode ref.	Description	Length m
N21224	1 pair 110-110 Compression Splice Patch Cord, 1m	1
N21224DF	1 pair 110-110 Compression Splice Patch Cord, 1.5 m	1.5
N21224EF	1 pair 110-110 Compression Splice Patch Cord, 2m	2
N21224FF	1 pair 110-110 Compression Splice Patch Cord, 3m	3
N21224HF	1 pair 110-110 Compression Splice Patch Cord, 5m	5
N21226	1 pair 110-RJ45 Patch Cord, 1.5m	1.5
N21226EF	1 pair 110-RJ45 Patch Cord, 2m	2
N21226FF	1 pair 110-RJ45 Patch Cord, 3m	3
N21226HF	1 pair 110-RJ45 Patch Cord, 5m	5
N21234	4 pairs 110-RJ45 Patch Cord, 1.5m	1.5
N21234EF	4 pairs 110-RJ45 Patch Cord, 2m	2
N21234FF	4 pairs 110-RJ45 Patch Cord, 3m	3
N21234HF	4 pairs 110-RJ45 Patch Cord, 5m	5

Data Centre Solutions
Copper Products
Voice Products
Optical Fibre Products
Cabinets/Tools/Accessories
LANsense AIM System
Industrial Ethernet/ Maritime Solution

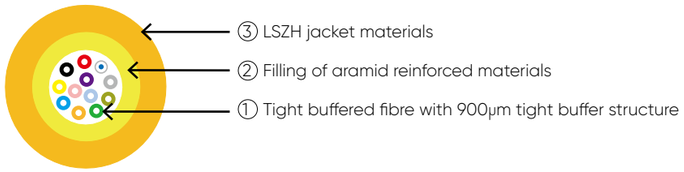
Optical Fibre Products

essential-OF Indoor Tight Buffer Fiber Cable

Application

- Suitable for indoor use
- Suitable for horizontal and vertical applications
- Filling of aramid reinforced materials
- Suitable for direct termination and splicing
- Up to 96 cores in one cable
- OM3, OS2 are available
- Outer jacket material is LSZH

Schematic Diagram of TB Fibre Cable structure



Product Performance

Impact resistance	IEC 60794-1
Crush Resistance	IEC 60794-1
Flame retardant	IEC 60332-1 & IEC 60332-3C
Installation Temperature	0 - 40°C
Operating temperature	-20 - 60°C

Fibre Parameters

Multimode	Attenuation (maximum)@850nm	≤3.0 dB/km
	Attenuation (maximum)@1300nm	≤1.0 dB/km
Singlemode	Attenuation (maximum)@1310nm	≤0.34 dB/km
	Attenuation (maximum)@1550nm	≤0.22 dB/km

Structure Dimensions and Mechanical Performance of Fibre Cables

Nb optical fibres	Fibre cable diameter mm	Nominal weight kg/km	Maximum pulling force Long term and Short term N	Crush resistance (N/100mm)	Impact resistance times / 3n.m	Minimum bend radius Static / Dynamic mm
2	3.6±0.2	11.5	200/440	1000	100	36/72
4	4.5±0.2	20	200/440	1000	100	45/90
6	5.1±0.2	26	200/440	1000	100	51/102
8	5.4±0.2	29	200/440	1000	100	54/108
12	6.0±0.2	35.5	200/440	1000	100	60/120
24	8.0±0.2	59	300/660	1000	100	80/160
48	16.8±0.5	225	700/1500	1000	100	168/336

Product List -HDPE

Aginode ref.	Description	Grade
N275.TBIN02O	essential-OF Tight Buffer Indoor 2x Multimode OM3 50/125 LSZH, Orange	OM3
N275.TBIN04O	essential-OF Tight Buffer Indoor 4x Multimode OM3 50/125 LSZH, Orange	OM3
N275.TBIN06O	essential-OF Tight Buffer Indoor 6x Multimode OM3 50/125 LSZH, Orange	OM3
N275.TBIN08O	essential-OF Tight Buffer Indoor 8x Multimode OM3 50/125 LSZH, Orange	OM3
N275.TBIN12O	essential-OF Tight Buffer Indoor 12x Multimode OM3 50/125 LSZH, Orange	OM3
N275.TBIN24O	essential-OF Tight Buffer Indoor 24x Multimode OM3 50/125 LSZH, Orange	OM3
N275.TBIN48O	essential-OF Tight Buffer Indoor 48x Multimode OM3 50/125 LSZH, Orange	OM3
N274.TBIN02Y	essential-OF Tight Buffer Indoor 2x Singlemode G.652.D 9/125 LSZH, Yellow	OS2 G.652.D
N274.TBIN04Y	essential-OF Tight Buffer Indoor 4x Singlemode G.652.D 9/125 LSZH, Yellow	OS2 G.652.D
N274.TBIN06Y	essential-OF Tight Buffer Indoor 6x Singlemode G.652.D 9/125 LSZH, Yellow	OS2 G.652.D
N274.TBIN08Y	essential-OF Tight Buffer Indoor 8x Singlemode G.652.D 9/125 LSZH, Yellow	OS2 G.652.D
N274.TBIN12Y	essential-OF Tight Buffer Indoor 12x Singlemode G.652.D 9/125 LSZH, Yellow	OS2 G.652.D
N274.TBIN24Y	essential-OF Tight Buffer Indoor 24x Singlemode G.652.D 9/125 LSZH, Yellow	OS2 G.652.D
N274.TBIN48Y	essential-OF Tight Buffer Indoor 48x Singlemode G.652.D 9/125 LSZH, Yellow	OS2 G.652.D

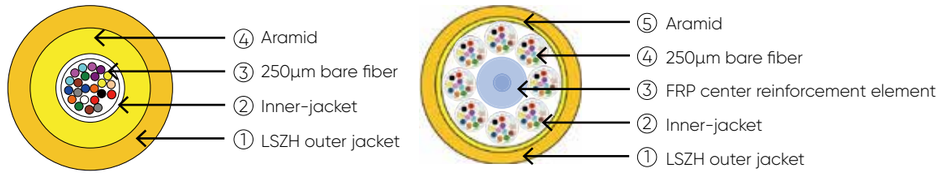
* Please contact Aginode local sales for other core numbers.

essential-OF Indoor Micro Tube Fiber Cable

Application

- Suitable for indoor horizontal and vertical installation
- Micro-duct design is suitable for dense installation, thus space saving
- Aramid yarn enhances tensile strength performance
- 250μm optical fiber can be directly fusion spliced
- Up to 96 cores
- Suitable for OM3 and OS2 fiber
- Outer jacket LSZH

Schematic Diagram of MT Fibre Cable structure



Product Performance

Impact resistance	IEC 60794-1
Crush Resistance	IEC 60794-1
Flame retardant	IEC 60332-1 & IEC 60332-3C
Installation Temperature	0 - 60°C
Operating temperature	-20 - 60°C

Fibre Parameters

Multimode	Attenuation (maximum)@850nm	3.0 dB/km
	Attenuation (maximum)@1300nm	1.0 dB/km
Singlemode	Attenuation (maximum)@1310nm	0.34 dB/km
	Attenuation (maximum)@1550nm	0.22 dB/km

Structure Dimensions and Mechanical Performance of Fibre Cables

Nb optical fibres	Fibre cable diameter mm	Nominal weight kg/km	Maximum pulling force Long term and Short term N	Crush resistance (N/100mm)	Impact resistance times / 3n.m	Minimum bend radius Static / Dynamic mm
4	3.7±0.2	12.8	200/440	1000	100	37/74
6	3.7±0.2	12.9	200/440	1000	100	37/74
8	3.7±0.2	12.9	200/440	1000	100	37/74
12	4.0±0.2	15.5	200/440	1000	100	40/80
24	4.0±0.2	21	300/660	1000	100	48/96
48	6.5±0.3	39.7	700/1500	1000	100	65/130
72	7.3±0.3	51.2	700/1500	1000	100	73/146
96	8.0±0.3	63.2	700/1500	1000	100	80/160

Product List -HDPE

Aginode ref.	Description	Grade
N275.MT04O	essential-OF Micro bundle indoor fiber cable, 4X, LSZH, Multimode OM3 50/125, Orange	BI OM3
N275.MT06O	essential-OF Micro bundle indoor fiber cable, 6X, LSZH, Multimode OM3 50/125, Orange	BI OM3
N275.MT08O	essential-OF Micro bundle indoor fiber cable, 8X, LSZH, Multimode OM3 50/125, Orange	BI OM3
N275.MT12O	essential-OF Micro bundle indoor fiber cable, 12X, LSZH, Multimode OM3 50/125, Orange	BI OM3
N275.MT24O	essential-OF Micro bundle indoor fiber cable, 24X, LSZH, Multimode OM3 50/125, Orange	BI OM3
N275.MT48O	essential-OF Micro bundle indoor fiber cable, 48X, LSZH, Multimode OM3 50/125, Orange	BI OM3
N275.MT72O	essential-OF Micro bundle indoor fiber cable, 72X, LSZH, Multimode OM3 50/125, Orange	BI OM3
N275.MT96O	essential-OF Micro bundle indoor fiber cable, 96X, LSZH, Multimode OM3 50/125, Orange	BI OM3
N274.MT04Y	essential-OF Micro bundle indoor fiber cable, 4X, LSZH, Singlemode G.652.D 9/125, Yellow	OS2
N274.MT06Y	essential-OF Micro bundle indoor fiber cable, 6X, LSZH, Singlemode G.652.D 9/125, Yellow	OS2
N274.MT08Y	essential-OF Micro bundle indoor fiber cable, 8X, LSZH, Singlemode G.652.D 9/125, Yellow	OS2
N274.MT12Y	essential-OF Micro bundle indoor fiber cable, 12X, LSZH, Singlemode G.652.D 9/125, Yellow	OS2
N274.MT24Y	essential-OF Micro bundle indoor fiber cable, 24X, LSZH, Singlemode G.652.D 9/125, Yellow	OS2
N274.MT48Y	essential-OF Micro bundle indoor fiber cable, 48X, LSZH, Singlemode G.652.D 9/125, Yellow	OS2
N274.MT72Y	essential-OF Micro bundle indoor fiber cable, 72X, LSZH, Singlemode G.652.D 9/125, Yellow	OS2
N274.MT96Y	essential-OF Micro bundle indoor fiber cable, 96X, LSZH, Singlemode G.652.D 9/125, Yellow	OS2

* Please contact Aginode local sales for other core numbers.

LANmark-OF Fiber Cables

Aginode can offer many fibre cable designs for a variety of applications. The high performance design meets all LAN, SAN and campus network applications. The Aginode LANmark-OF provides guarantee for high performance and reliability.

Aginode fibre cables types: tight buffer (TB), loose tube (UC/UG/MG), jacket (PE/LSZH/PVC), armor, non-conductive structure and so on.

Aginode provides many fibre cable types:

- LANmark-OF OM3/OM4
  LANmark-OF OM3 and OM4 from Aginode Cabling Solutions offers fully OM3 and OM4 standard compliant multimode fibres. LANmark-OF OM3 and OM4 ensures highest bandwidth performance for Premises, Local Area Network (LAN) and Storage Area Network (SAN) while its optimised design for lowcost 850 nm lasers (VCSEL) contributes to overall system cost reduction. The low attenuation values of 3.0 dB/km @ 850 nm exceed the requirements of the ISO/IEC 11801 standard. The superior geometric tolerances compared to the fibre standard reduce the connector loss due to improved coupling from the light. The ef fective modal bandwidth is measured with the most stringent DMD characterisation methods: LANmark-OF cables are measured against both the Effective Model Bandwidth Calculated (EMBc) method and the mask templates standard.
- LANmark-OF OM5
  Aginode's LANmark-OF OM5 multimode fibre cables fully meet the OM5 standard (IEC60793-2-10 A1.a.4b), supports short-wave multiplexing (SWDM) applications in the wavelength range of 850-950nm, provides transmission capacity four times that of OM4 fibre, and has an effective bandwidth of over 4700Mhz.km in the 850nm wavelength window, with downward compatibility with OM4 and OM3 fibres.
- LANmark-OF OS2
  This fibre cable is a full-spectrum singlemode 9/125 fibre cable with better transmission performance in the wavelength range from 1260nm to 1625nm. This cable overcomes the common water peak of traditional singlemode fibre cables at the wavelength of 1383nm and allows transmission at the wavelength of 1360 to 1480nm. This full-spectrum singlemode fibre cable can support DWDM and CWDM technologies.

EIA Fibre Cable color Code

EIA Fibre Clour Coding

Fibre	Colour	Fibre	Colour
1	Blue	13	Blue + 1 ring
2	Orange	14	Orange + 1 ring
3	Green	15	Green + 1 ring
4	Brown	16	Brown + 1 ring
5	Grey	17	Grey + 1 ring
6	White	18	White + 1 ring
7	Red	19	Blue + 2 rings
8	Black	20	Orange + 2 rings
9	Yellow	21	Green + 2 rings
10	Violet	22	Brown + 2 rings
11	Pink	23	Grey + 2 rings
12	Turquoise	24	White + 1 rings

LANmark-OF OM3 Multimode Fiber

Aginode LANmark-OF OM3 fibre provides superior performance that fully meets and exceeds the requirements OF the 10-Gigabit Ethernet standard. The LANmark-OF OM3 fibre provides ultra-long bandwidth at wavelengths of 850nm and 1300nm, and supports up to 880m links in Gigabit Ethernet with SX (850nm VCSEL) applications.

The Aginode LANmark-OF OM3 fibre solution not only provides superior bandwidth and transition distance, but also guarantees the best attenuation performance in the industry. Its distinctive bandwidth ensures that the installed fibre backbone supports a 10-Gigabit rate transmission link length up to 330 meters.

The Aginode LANmark-OF OM3 fibre solution choose new fibre manufacturing technology-PCVD. In the deposition process of 10-Gigabit multimode fiber, PCVD requires thousands of layers of deposition, and the thickness of each layer is calculated in micron.Due to the instantaneous vitrification of the deposits in each layer, the fiber is beneficial to lock the dopant and reduce the volatilization and non-diffusion of the dopants.At the same time, the center corrosion process of PVCD can completely eliminate the common center defect in multimode fiber. The Aginode LANmark-OF provides outstanding bandwidth and ultra-long transmission distance. The excellent bandwidth and ultra long transmission distance provided by Aginode LANmark-OF fibre can make your network safe, efficient and fast.

Standard

- IEC 60793-2-10 A1a.2
- IEC 60793-1-41 OFL BW
- IEC 60793-1-49 DMD
- IEC 11801
- ANSI/TIA-568.3-D

Application

- 1GBase-SX/LX
- 10GBase-SR/LX4
- 25GBase-SR
- 40GBase-SR4/BiDi
- 100GBase-SR4

LANmark-OF OM3 50/125

Transmission Performance

Attenuation (typical value)@850nm	2.8 dB/km
Attenuation (maximum) @850nm	3.0 dB/km
Attenuation (typical value)@1300nm	0.8 dB/km
Attenuation (maximum)@1300nm	1.0 dB/km
Bandwidth (Overfilled Launch) @850nm	≥1500MHz.km
Bandwidth (Overfilled Launch) @1300nm	≥500MHz.km
Effective bandwidth @850nm	≥2000MHz.km
Unevenness of attenuation	≤0.2dB
Numerical aperture	0.20±0.02

Fibre structure size

Core Diameter	50±2.5μm
Core Non-circularity %	≤6.0%
Core/Cladding Concentricity Error	≤1.5μm
Cladding Diameter	125±1.0μm
Cladding Non-circularity	≤1.0%
Covering Diameter	250±15μm
Covering/Cladding Concentricity Error	≤10.0μm

Length

Transmission Link Length 1GBase-SX/LX	880/550
Transmission Link Length 10GBase-SR/LX4	330*/300
Transmission Link Length 25GBase-SR	85
Transmission Link Length 40GBase-SR4/BiDi	100*/130
Transmission Link Length 100GBase-SR4	100*

* Based on maximum 1.0 dB connector loss

Microbending loss

2 cycles, radius 15mm	850nm	≤0.1
	1300nm	≤0.3
2 cycles, radius 7.5mm	850nm	≤0.2
	1300nm	≤0.5

LANmark-OF OM4 Multimode Fiber

Aginode LANmark-OF OM4 fibre is a new generation of 10G fibre, which can provide higher bandwidth than ordinary OM3 fibre cable, and can support 10G transmission to 550 meters at wavelength of 850 nm with VCSEL technology.

The Aginode LANmark-OF OM4 fibre can be used in a variety OF environments, especially for LAN backbone and SAN applications, and is an ideal choice for data Centres. The extended backbone transmission link length makes LANmark-OF OM4 fibre cable also suitable for trunk fibre cable in the park.

LANmark-OF OM4 can support 10G transmission distance to 550m and 40G/100G to 150m, and is a future proof fibre cable product.

Standard

- IEC 60793-2-10 A1a.3
- IEC 60793-1-41 OFL BW
- IEC 60793-1-49 DMD
- IEC 11801
- ANSI/TIA-568.3-D

Application

- 1GBase-SX/LX
- 10GBase-SR/LX4l
- 25GBase-SR
- 40GBase-SR4/BiDi/SWDM
- 100GBase-SR4/BiDi/SWDM

LANmark-OF OM4 50/125

Transmission Performance

Attenuation (typical value) @850nm	2.8 dB/km
Attenuation (maximum) @850nm	3.0 dB/km
Attenuation (typical value) @1300nm	0.8 dB/km
Attenuation (maximum) @1300nm	1.0 dB/km
Bandwidth (Overfilled Launch) @850nm	≥3500MHz.km
Bandwidth (Overfilled Launch) @1300nm	≥500MHz.km
Effective Modal bandwidth @850nm	≥4700MHz.km
Uniform of attenuation	≤0.2dB
Numerical aperture	0.20±0.02

Fibre structure

Core Diameter	50±2.5μm
Core Non-circularity %	≤6.0%
Core/Cladding Concentricity Error	≤1.5μm
Cladding Diameter	125±1.0μm
Cladding Non-circularity	≤1.0%
Covering Diameter	250±15μm
Coating/Clad Concentricity Error	≤10.0μm

Transmission Link Length

Transmission Link Length 1GBase-SX/LX	970/550
Transmission Link Length 10GBase-SR/LX4	550*/300
Transmission Link Length 25GBase-SR	120
Transmission Link Length 40GBase-SR4/ BiDi/SWDM	150*/175/350
Transmission Link Length 100GBase-SR4/ BiDi/SWDM	150*/100/100

* Based on maximum 1.0 dB connector loss

Microbending loss

2 cycles, radius 15mm	850nm	≤0.1
	1300nm	≤0.3
2 cycles, radius 7.5mm	850nm	≤0.2
	1300nm	≤0.5

LANmark-OF OM5 Multimode Fiber

Aginode LANmark-OF OM5 multimode fibres fully meet the OM5 standard (IEC 60793-2-10 A1.a.4b), supports short-wave multiplexing (SWDM) applications in the wavelength range of 850nm to 950nm, provides transmission capacity four times that of OM4 fibre, and has an effective bandwidth of over 4700Mhz.km in the 850nm wavelength window, with downward compatibility with OM4 and OM3 fibres.

Aginode LANmark-OF OM5 fibre ensures infrastructure, LAN, SAN and other applications with high bandwidth, and simultaneously can reduce the overall system cost while supporting design of VCSEL at the wavelength range of 850nm to 950nm.

Aginode LANmark-OF OM5 multimode fibre, which fully meets the OM5 standard, is a bending insensitive fibre and is more suitable for in data Centre.

Standard

- IEC 60793-2-10 A1a.4b
- IEC 60793-1-41 OFL BW
- IEC 60793-1-49 DMD
- IEC 11801 (2) OM5 fibre

LANmark-OF OM5 50/125

Transmission Performance

Attenuation @850nm	3.0 dB/km
Attenuation @953nm	2.3 dB/km
Attenuation @1300nm	1.0 dB/km
Bandwidth (Overfilled Launch) @850nm	≥3500 Mhz.km
Bandwidth (Overfilled Launch) @953nm	≥1850 Mhz.km
Bandwidth (Overfilled Launch) @1300nm	≥500 Mhz.km
Effective bandwidth @850nm	≥4700 Mhz.km
Effective Modal bandwidth @953nm	≥2470 Mhz.km
Unevenness of attenuation	≤0.2dB
Numerical aperture	0.20 ± 0.02

Fibre structure size

Core Diameter	50±2.5μm
Core Non-circularity %	≤6.0%
Core/Cladding Concentricity Error	≤1.5μm
Cladding Diameter	125±1.0μm
Cladding Non-circularity	≤1.0%
Covering Diameter	250±15μm
Coating/Clad Concentricity Error	≤10.0μm

Transmission Link Length

Transmission Link Length 1GBase-SX	970m
Transmission Link Length 10GBase-SR	550m
Transmission Link Length 25GBase-SR	120m
Transmission Link Length 40GBase-BiDi/ SWDM	175/440m
Transmission Link Length 100GBase-BiDi/ SWDM	100/150m

Microbending loss

2 cycles, radius 7.5mm	850nm	≤0.2
	1300nm	≤0.5
2 cycles, radius 15mm	850nm	≤0.1
	1300nm	≤0.3
100 cycles, radius 37.5mm	850nm	≤0.5
	1300nm	≤0.5

LANmark-OF OS2 Singlemode Fiber

Aginode LANmark-OF G.652.D (zero water peak) singlemode fibre suppresses the zero water peak that is caused by hydrogen-oxygen ion absorption near the band of 1383nm, and extends the work window from 1260 nm to 1625nm wavelength, which increases the spectral bandwidth with about 100nm.

Aginode zero water peak fibre optimises the attenuation and dispersion characteristics across the entire 1260 nm to 1625nm wavelength range, improved the bending resistance performance of L-band (1565-1625 nm), and fully meets the needs of transmitting various high-speed services on a single fibre.

Aginode zero peak optical fibre has a wide spectral bandwidth and excellent optical performance. It uses laser as light source and allows for cheaper lasers, multiplexers, demultiplexers and other existing 1310nm devices.

Aginode LANmark-OF zero water peak singlemode fibre meets ITU-T G.652.D 9/125 singlemode fibre standard.

Standard

- IEC 60793-1
- IEC 60793-2-50 B1.3
- ITU-T G.652.D
- IEC 11801
- ANSI/TIA-568.3-D

Application

- 1000Base-LX
- 10GBase-LR/LX4
- 10GBit-FC
- 40Gbase-LR4
- 100Gbase-LR4
- DWDM
- CWDM
- SONET

LANmark-OF OS2 SM 9/125

Transmission Performance

Attenuation (maximum)@1310nm	0.34 dB/km
Attenuation (maximum)@1383nm	0.36 dB/km
Attenuation (maximum)@1550nm	0.21 dB/km
Cut-off Wavelength	1150~1330 nm
Dispersion 1285-1330	≤3.5 ps/nm.km
Dispersion 1550	≤18 ps/nm.km
Zero Dispersion Wavelength	1310±10 nm
Polarization mode dispersion coefficient	≤0.2 ps/$\sqrt{km}$

Transmission Link Length

Transmission Link Length 1000Base-LX	10000m
Transmission Link Length 10GBase-LR/LX4	10000m
Transmission Link Length 10GBit-FC	10000m
Transmission Link Length 40Gbase-LR4	10000m
Transmission Link Length 100Gbase-LR4	10000m
Transmission Link Length DWDM	40km

Fibre structure size

Core Diameter	9.2±0.5μm
Core Non-circularity %	≤5.0%
Core/Cladding Concentricity Error	/
Cladding Diameter	125±1.0μm
Cladding Non-circularity	≤2.0%
Covering Diameter	245±10μm
Coating/Cladding Concentricity Error	≤10.0μm

Data Centre Solutions
Copper Products
Voice Products
Optical Fibre Products
Cabinets/Tools/Accessories
LANsense AIM System
Industrial Ethernet/ Maritime Solution

LANmark-OF OS2 Singlemode Fiber

LANmark-OF OS2 G.657.A1 singlemode fibre has the same transmission and interconnection characteristics as that of G.652. D fibre, and its operating windows are still across the entire 1260 to 1625 nm wavelength range. However, compared with G.652. D, its bending characteristic has significantly improved, and the complete loss is minimal, and as such reduces the increase of attenuation caused by long-term small radius bending in compact space applications.

Aginode LANmark-OF G.657.A1 fibre meets or exceeds ITU-T G.652.D/G.657.A1 fibre technical specification and IEC60793-2-50 B1.3/ B6.a1 fibre technical specification.

Application

- 1000Base-LX
- 10GBase-LR/LX4
- 10GBit-FC
- 40Gbase-LR4
- 100Gbase-LR4
- DWDM
- CWDM
- SONET

LANmark-OF OS2 SM 9/125

Transmission Performance

Attenuation (maximum)@1310	0.35dB/km
Attenuation (maximum)@1550	0.21dB/km
Attenuation (maximum)@1625	0.23dB/km
Cut-off wavelength:	≤1260nm
Dispersion 1285-1340	≥-3.4 ≤3.4ps/nm.km
Dispersion 1550	≤18 ps/nm.km
Zero Dispersion Wavelength	1300-1324 nm
Polarization Mode Dispersion (PMD) Coefficient	≤3.4ps/$\sqrt{km}$
Mode Field Diameter (MFD) 1310nm 1550nm	 8.4-9.2 9.3-10.3

Geometrical Characteristics

Cladding Diameter	125.0±0.7	μm
Cladding Non-circularity	≤0.7	%
Coating Diameter	245±5	μm
Coating/Cladding Concentricity Error	≤12.0	μm
Coating Non-circularity	≤6.0	%
Core/Cladding Non-ircularity	≤5.0	μm

Microbending Additional Loss

10 turns	Radius 15 mm	1550nm	≤0.25	dB
	Radius 10 mm	1625nm	≤1.0	dB
1 turn	Radius 10 mm	1550nm	≤0.75	dB
		1625nm	≤1.5	dB

LANmark-OF Indoor Tight Buffer Fibre Cable

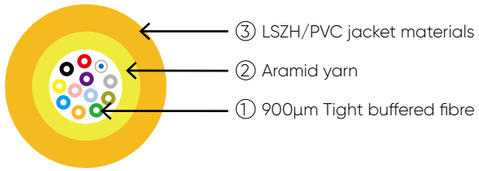
Application

Aginode LANmark-OF TB Indoor fibre cable is designed for indoor applications. The fibre cable has 900μm tight buffered fibres with flame sheath around the transmission medium, and the 900μm sheath provides additional protection for the fibres. The outer layer is covered with aramid fiber as a reinforcing element, and the outermost layer is covered with LSZH, PVC that meets UL grade, or an outer jacket that meets GB31247-B1 grade.

The fibre cable is of a dry structure suitable for horizontal or vertical installation. The fibre cable meets the needs of indoor fire protection and can be installed in ducts.

- Can be installed both vertically or horizontally
- Applicable as standard multimode and singlemode fibre
- LSZH, PVC with UL rating or optical cable with GB31247-B1 rating
- Tight buffered fibre for easy stripping

TB Fibre Cable structure



Environmental property

Impact resistance	IEC 607941-E4
Crush Resistance	IEC 607941-E3
Flame retardant	IEC 60332-1 & IEC 60332-3(LSZH) OFNR (PVC Riser) GB31247 (B1 (d0,t0,a1) 级)
Installation Temperature	0 - 40°C
Operating temperature	-20 - 60°C
Storage Temperature	-30 - 70°C
Low smoke performance	IEC 61034
Halogen free performance	IEC 60754-1&2

Cable Structure and Mechanical Performance of Fibre Cable -TB LSZH

Fibre count	cable diameter mm	weight kg/km	Max Tensile force Long /Short term N	Crush resistance (N/100mm)	Impact resistance time(s) /N.m	Mini bend radius Static / Dynamic mm
2	4.8±0.3	23	400/800	1000	100	48/96
4	5.2±0.3	27	400/800	1000	100	52/104
6	5.6±0.3	31	450/900	1000	100	56/112
8	5.8±0.3	33	450/900	1000	100	58/116
12	6.2±0.3	40	500/1000	1000	100	62/124
24	8.1±0.3	59	650/1300	1000	100	81/162
48	14.8±0.5	170	750/1500	1000	100	148/296
72	17.5±0.5	254	750/1500	1000	100	175/350
96	20.7±0.5	366	750/1500	1000	100	207/414

Cable Structure and Mechanical Performance of Fibre Cable - TB OFNR

Fibre count	cable diameter mm	weight kg/km	Max Tensile force Long /Short term N	Crush resistance (N/100mm)	Impact resistance time(s) /N.m	Mini bend radius Static / Dynamic mm
2	4.0±0.3	17	140/440	1000	100	40/80
4	4.8±0.3	21	140/440	1000	100	48/96
6	4.9±0.3	25	140/440	1000	100	49/98
8	5.6±0.3	30	140/440	1000	100	56/112
12	6.0±0.3	34	140/440	1000	100	60/120
24	8.1±0.3	60	200/660	1000	100	81/162
48	14.4±0.5	175	400/1320	1000	100	144/288

Cable Structure and Mechanical Performance of Fibre Cable - TB OFNP

Fibre count	cable diameter mm	weight kg/km	Max Tensile force Long /Short term N	Crush resistance (N/100mm)	Impact resistance time(s) /N.m	Mini bend radius Static / Dynamic mm
4	5.0±0.3	24	200/440	1000	100	37/74
6	5.3±0.3	27	200/440	1000	100	37/74
8	5.8±0.3	35	200/440	1000	100	37/74
12	6.4±0.3	42	200/440	1000	100	40/80
24	8.3±0.3	61	300/660	1000	100	48/96
48	14.9±0.5	208	700/1500	1000	100	65/130
72	17.6±0.5	303	700/1500	1000	100	73/146
96	20.8±0.5	435	700/1500	1000	100	80/160

Product List

Aginode ref.	Description	Grade
N175.020	LANmark-OF Tight Buffer Indoor 2x Multimode 50/125 OM3 LSZH	OM3
N175.021	LANmark-OF Tight Buffer Indoor 4x Multimode 50/125 OM3 LSZH	OM3
N175.022	LANmark-OF Tight Buffer Indoor 6x Multimode 50/125 OM3 LSZH	OM3
N175.023	LANmark-OF Tight Buffer Indoor 8x Multimode 50/125 OM3 LSZH	OM3
N175.025	LANmark-OF Tight Buffer Indoor 12x Multimode 50/125 OM3 LSZH	OM3
N175.031	LANmark-OF Tight Buffer Indoor 24x Multimode 50/125 OM3 LSZH	OM3
N175.037	LANmark-OF Tight Buffer Indoor 48x Multimode 50/125 OM3 LSZH	OM3
N175.043	LANmark-OF Tight Buffer Indoor 72x Multimode 50/125 OM3 LSZH	OM3
N175.049	LANmark-OF Tight Buffer Indoor 96x Multimode 50/125 OM3 LSZH	OM3
N175.020NP	LANmark-OF Tight Buffer Indoor 2x Multimode 50/125 OM3 Plenum, OFNP	OM3
N175.022NP	LANmark-OF Tight Buffer Indoor 6x Multimode 50/125 OM3 Plenum, OFNP	OM3
N175.023NP	LANmark-OF Tight Buffer Indoor 8x Multimode 50/125 OM3 Plenum, OFNP	OM3
N175.025NP	LANmark-OF Tight Buffer Indoor 12x Multimode 50/125 OM3 Plenum, OFNP	OM3
N175.031NP	LANmark-OF Tight Buffer Indoor 24x Multimode 50/125 OM3 Plenum, OFNP	OM3
N175.037NP	LANmark-OF Tight Buffer Indoor 48x Multimode 50/125 OM3 Plenum, OFNP	OM3
N175.020NR	LANmark-OF Tight Buffer Indoor 2x Multimode 50/125 OM3 Riser Rated, OFNR	OM3
N175.021NR	LANmark-OF Tight Buffer Indoor 4x Multimode 50/125 OM3 Riser Rated, OFNR	OM3
N175.022NR	LANmark-OF Tight Buffer Indoor 6x Multimode 50/125 OM3 Riser Rated, OFNR	OM3
N175.023NR	LANmark-OF Tight Buffer Indoor 8x Multimode 50/125 OM3 Riser Rated, OFNR	OM3
N175.025NR	LANmark-OF Tight Buffer Indoor 12x Multimode 50/125 OM3 Riser Rated, OFNR	OM3
N175.031NR	LANmark-OF Tight Buffer Indoor 24x Multimode 50/125 OM3 Riser Rated, OFNR	OM3
N175.037NR	LANmark-OF Tight Buffer Indoor 48x Multimode 50/125 OM3 Riser Rated, OFNR	OM3
N175.043NR	LANmark-OF Tight Buffer Indoor 72x Multimode 50/125 OM3 Riser Rated, OFNR	OM3
N175.049NR	LANmark-OF Tight Buffer Indoor 96x Multimode 50/125 OM3 Riser Rated, OFNR	OM3
N177.020	LANmark-OF Tight Buffer Indoor 2x Multimode 50/125 OM4 LSZH	OM4

Product List

Aginode ref.	Description	Grade
N177.021	LANmark-OF Indoor 4x Tight buffer TB LSZH, Multimode OM4 50/125	OM4
N177.022	LANmark-OF Indoor 6x Tight buffer TB LSZH, Multimode OM4 50/125	OM4
N177.023	LANmark-OF Indoor 8x Tight buffer TB LSZH, Multimode OM4 50/125	OM4
N177.025	LANmark-OF Indoor 12x Tight buffer TB LSZH, Multimode OM4 50/125	OM4
N177.031	LANmark-OF Indoor 24x Tight buffer TB LSZH, Multimode OM4 50/125	OM4
N177.037	LANmark-OF Indoor 48x Tight buffer TB LSZH, Multimode OM4 50/125	OM4
N177.043	LANmark-OF Indoor 72x Tight buffer TB LSZH, Multimode OM4 50/125	OM4
N177.049	LANmark-OF Indoor 96x Tight buffer TB LSZH, Multimode OM4 50/125	OM4
N177.020NP	LANmark-OF Indoor 2x Tight buffer TB Plenum, Multimode OM4 50/125, OFNP	OM4
N177.021NP	LANmark-OF Indoor 4x Tight buffer TB Plenum, Multimode OM4 50/125, OFNP	OM4
N177.022NP	LANmark-OF Indoor 6x Tight buffer TB Plenum, Multimode OM4 50/125, OFNP	OM4
N177.023NP	LANmark-OF Indoor 8x Tight buffer TB Plenum, Multimode OM4 50/125, OFNP	OM4
N177.025NP	LANmark-OF Indoor 12x Tight buffer TB Plenum, Multimode OM4 50/125, OFNP	OM4
N177.031NP	LANmark-OF Indoor 24x Tight buffer TB Plenum, Multimode OM4 50/125, OFNP	OM4
N177.037NP	LANmark-OF Indoor 48x Tight buffer TB Plenum, Multimode OM4 50/125, OFNP	OM4
N179.020	LANmark-OF Indoor 2x Tight buffer TB LSZH, Multimode OM5 50/125	OM5
N179.021	LANmark-OF Indoor 4x Tight buffer TB LSZH, Multimode OM5 50/125	OM5
N179.022	LANmark-OF Indoor 6x Tight buffer TB LSZH, Multimode OM5 50/125	OM5
N179.023	LANmark-OF Indoor 8x Tight buffer TB LSZH, Multimode OM5 50/125	OM5
N179.025	LANmark-OF Indoor 12x Tight buffer TB LSZH, Multimode OM5 50/125	OM5
N179.031	LANmark-OF Indoor 24x Tight buffer TB LSZH, Multimode OM5 50/125	OM5
N179.037	LANmark-OF Indoor 48x Tight buffer TB LSZH, Multimode OM5 50/125	OM5
N179.043	LANmark-OF Indoor 72x Tight buffer TB LSZH, Multimode OM5 50/125	OM5
N179.049	LANmark-OF Indoor 96x Tight buffer TB LSZH, Multimode OM5 50/125	OM5
N179.020NP	LANmark-OF Indoor 2x Tight buffer TB Plenum, Multimode OM5 50/125, OFNP	OM5
N179.021NP	LANmark-OF Indoor 4x Tight buffer TB Plenum, Multimode OM5 50/125, OFNP	OM5
N179.022NP	LANmark-OF Indoor 6x Tight buffer TB Plenum, Multimode OM5 50/125, OFNP	OM5
N179.023NP	LANmark-OF Indoor 8x Tight buffer TB Plenum, Multimode OM5 50/125, OFNP	OM5
N179.025NP	LANmark-OF Indoor 12x Tight buffer TB Plenum, Multimode OM5 50/125, OFNP	OM5
N179.031NP	LANmark-OF Indoor 24x Tight buffer TB Plenum, Multimode OM5 50/125, OFNP	OM5
N179.037NP	LANmark-OF Indoor 48x Tight buffer TB Plenum, Multimode OM5 50/125, OFNP	OM5
N17A.020	LANmark-OF Indoor 2x Tight buffer TB LSZH, Multimode anti bending G.657.A1 9/125	OS2 G.657.A1
N17A.021	LANmark-OF Indoor 4x Tight buffer TB LSZH, Multimode anti bending G.657.A1 9/125	OS2 G.657.A1
N17A.022	LANmark-OF Indoor 6x Tight buffer TB LSZH, Multimode anti bending G.657.A1 9/125	OS2 G.657.A1
N17A.023	LANmark-OF Indoor 8x Tight buffer TB LSZH, Multimode anti bending G.657.A1 9/125	OS2 G.657.A1
N17A.025	LANmark-OF Indoor 12x Tight buffer TB LSZH, Multimode anti bending G.657.A1 9/125	OS2 G.657.A1
N17A.031	LANmark-OF Indoor 24x Tight buffer TB LSZH, Multimode anti bending G.657.A1 9/125	OS2 G.657.A1
N17A.034	LANmark-OF Indoor 36x Tight buffer TB LSZH, Multimode anti bending G.657.A1 9/125	OS2 G.657.A1
N17A.037	LANmark-OF Indoor 48x Tight buffer TB LSZH, Multimode anti bending G.657.A1 9/125	OS2 G.657.A1
N17A.043	LANmark-OF Indoor 72x Tight buffer TB LSZH, Multimode anti bending G.657.A1 9/125	OS2 G.657.A1
N17A.049	LANmark-OF Indoor 96x Tight buffer TB LSZH, Multimode anti bending G.657.A1 9/125	OS2 G.657.A1
N17A.020NP	LANmark-OF Indoor 2x Tight buffer TB, Multimode anti bending G.657.A1 9/125, OFNP	OS2 G.657.A1
N17A.021NP	LANmark-OF Indoor 4x Tight buffer TB, Multimode anti bending G.657.A1 9/125, OFNP	OS2 G.657.A1
N17A.022NP	LANmark-OF Indoor 6x Tight buffer TB, Multimode anti bending G.657.A1 9/125, OFNP	OS2 G.657.A1
N17A.023NP	LANmark-OF Indoor 8x Tight buffer TB, Multimode anti bending G.657.A1 9/125, OFNP	OS2 G.657.A1
N17A.025NP	LANmark-OF Indoor 12x Tight buffer TB, Multimode anti bending G.657.A1 9/125, OFNP	OS2 G.657.A1
N17A.031NP	LANmark-OF Indoor 24x Tight buffer TB, Multimode anti bending G.657.A1 9/125, OFNP	OS2 G.657.A1
N17A.034NP	LANmark-OF Indoor 36x Tight buffer TB, Multimode anti bending G.657.A1 9/125, OFNP	OS2 G.657.A1
N17A.037NP	LANmark-OF Indoor 48x Tight buffer TB, Multimode anti bending G.657.A1 9/125, OFNP	OS2 G.657.A1

Product List

Aginode ref.	Description	Grade
N174.020	LANmark-OF G.652D Indoor 2x Tight buffer TB LSZH, No Water Peak Singlemode 9/125	OS2 G.652.D
N174.021	LANmark-OF G.652D Indoor 4x Tight buffer TB LSZH, No Water Peak Singlemode 9/125	OS2 G.652.D
N174.022	LANmark-OF G.652D Indoor 6x Tight buffer TB LSZH, No Water Peak Singlemode 9/125	OS2 G.652.D
N174.023	LANmark-OF G.652D Indoor 8x Tight buffer TB LSZH, No Water Peak Singlemode 9/125	OS2 G.652.D
N174.025	LANmark-OF G.652D Indoor 12x Tight buffer TB LSZH, No Water Peak Singlemode 9/125	OS2 G.652.D
N174.031	LANmark-OF G.652D Indoor 24x Tight buffer TB LSZH, No Water Peak Singlemode 9/125	OS2 G.652.D
N174.037	LANmark-OF G.652D Indoor 48x Tight buffer TB LSZH, No Water Peak Singlemode 9/125	OS2 G.652.D
N174.043	LANmark-OF G.652D Indoor 72x Tight buffer TB LSZH, No Water Peak Singlemode 9/125	OS2 G.652.D
N174.049	LANmark-OF G.652D Indoor 96x Tight buffer TB LSZH, No Water Peak Singlemode 9/125	OS2 G.652.D
N174.020NP	LANmark-OF G.652D Indoor 2x Tight buffer TB Plenum, No Water Peak Singlemode 9/125, OFNP	OS2 G.652.D
N174.021NP	LANmark-OF G.652D Indoor 4x Tight buffer TB Plenum, No Water Peak Singlemode 9/125, OFNP	OS2 G.652.D
N174.022NP	LANmark-OF G.652D Indoor 6x Tight buffer TB Plenum, No Water Peak Singlemode 9/125, OFNP	OS2 G.652.D
N174.023NP	LANmark-OF G.652D Indoor 8x Tight buffer TB Plenum, No Water Peak Singlemode 9/125, OFNP	OS2 G.652.D
N174.025NP	LANmark-OF G.652D Indoor 12x Tight buffer TB Plenum, No Water Peak Singlemode 9/125, OFNP	OS2 G.652.D
N174.031NP	LANmark-OF G.652D Indoor 24x Tight buffer TB Plenum, No Water Peak Singlemode 9/125, OFNP	OS2 G.652.D
N174.037NP	LANmark-OF G.652D Indoor 48x Tight buffer TB Plenum, No Water Peak Singlemode 9/125, OFNP	OS2 G.652.D

* Please contact Aginode local sales for other core numbers.

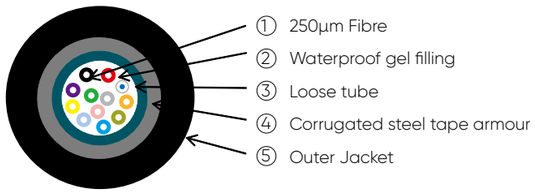
LANmark-OF Outdoor Loose Tube Armored UC Fiber Cable

Application

Aginode LANmark-OF UC fibre cable is designed for outdoor applications. This fiber cable is produced with 250m fiber into loose tube made of high modulus material, and the loose sleeve is filled with waterproof compound. The cable has a HDPE outer jacket.

- Suitable for in ducts or direct burial
- Available to multimode and singlemode fibre
- Double coated with steel tape to improve the fibre cable moisture resistance
- Provides full rodent protection
- Corrugated steel tape armour
- HDPE and LSZH outer jacket materials are available

UC Fibre Cable Structure



Environmental characteristics

Impact Resistance	IEC 60794-1-E4
Crush Resistance	IEC 60794-1-E3
Installation Temperature	0 - 40°C
Operation temperature	-20 - 60°C
Storage Temperature	-30 - 60°C

Structure Dimension and Mechanical Performance - HDPE

Fibre count	cable diameter mm	weight kg/km	Max Tensile force Long /Short term N	Crush resistance (N/100mm)	Impact resistance time(s) /N.m	Mini bend radius Static / Dynamic mm
2~12	8.2±0.5	72	700/1300	3000	100	82/164
24	9.2±0.5	82	700/1300	3000	100	92/184
48	10.8±0.5	135	750/1500	3000	100	108/216
72	11.6±0.5	153	1000/3000	3000	100	116/232
96	13.2±0.5	187	1000/3000	3000	100	132/264

Fibre Cable Structure Dimension and Mechanical Performance - LSZH

Fibre count	cable diameter mm	weight kg/km	Max Tensile force Long /Short term N	Crush resistance (N/100mm)	Impact resistance time(s) /N.m	Mini bend radius Static / Dynamic mm
2~12	9.3	110	700/1300	3000	100	186/93
24	10.6	132	700/1300	3000	100	212/106
36	9.9	153	750/1300	3000	100	198/99
48	10.8	159	750/1500	3000	100	216/108
72	11.6	185	1000/3000	3000	100	232/116
96	13.2	224	1000/3000	3000	100	264/132

Product List -HDPE

Aginode ref.	Description	Grade
N175.180	LANmark-OF Outdoor UC 2x Multimode OM3 50/125 HDPE	OM3
N175.181	LANmark-OF Outdoor UC 4x Multimode OM3 50/125 HDPE	OM3
N175.182	LANmark-OF Outdoor UC 6x Multimode OM3 50/125 HDPE	OM3
N175.183	LANmark-OF Outdoor UC 8x Multimode OM3 50/125 HDPE	OM3
N175.185	LANmark-OF Outdoor UC 12x Multimode OM3 50/125 HDPE	OM3
N175.191	LANmark-OF Outdoor UC 24x Multimode OM3 50/125 HDPE	OM3
N175.203	LANmark-OF Outdoor UC 48x Multimode OM3 50/125 HDPE	OM3
N175.215	LANmark-OF Outdoor UC 72x Multimode OM3 50/125 HDPE	OM3
N175.227	LANmark-OF Outdoor UC 96x Multimode OM3 50/125 HDPE	OM3
N177.180	LANmark-OF Outdoor UC 2x Multimode OM4 50/125 HDPE	OM4
N177.181	LANmark-OF Outdoor UC 4x Multimode OM4 50/125 HDPE	OM4
N177.182	LANmark-OF Outdoor UC 6x Multimode OM4 50/125 HDPE	OM4
N177.183	LANmark-OF Outdoor UC 8x Multimode OM4 50/125 HDPE	OM4
N177.185	LANmark-OF Outdoor UC 12x Multimode OM4 50/125 HDPE	OM4
N177.191	LANmark-OF Outdoor UC 24x Multimode OM4 50/125 HDPE	OM4
N177.203	LANmark-OF Outdoor UC 48x Multimode OM4 50/125 HDPE	OM4
N177.215	LANmark-OF Outdoor UC 72x Multimode OM4 50/125 HDPE	OM4
N177.227	LANmark-OF Outdoor UC 96x Multimode OM4 50/125 HDPE	OM4
N179.180	LANmark-OF Outdoor UC 2x Multimode OM5 50/125 HDPE	OM5
N179.181	LANmark-OF Outdoor UC 4x Multimode OM5 50/125 HDPE	OM5
N179.182	LANmark-OF Outdoor UC 6x Multimode OM5 50/125 HDPE	OM5
N179.183	LANmark-OF Outdoor UC 8x Multimode OM5 50/125 HDPE	OM5
N179.185	LANmark-OF Outdoor UC 12x Multimode OM5 50/125 HDPE	OM5
N179.191	LANmark-OF Outdoor UC 24x Multimode OM5 50/125 HDPE	OM5
N179.203	LANmark-OF Outdoor UC 48x Multimode OM5 50/125 HDPE	OM5
N179.215	LANmark-OF Outdoor UC 72x Multimode OM5 50/125 HDPE	OM5
N179.227	LANmark-OF Outdoor UC 96x Multimode OM5 50/125 HDPE	OM5
N174.180	LANmark-OF Outdoor UC 2x Singlemode G.652.D 9/125 HDPE	OS2 G.652.D
N174.181	LANmark-OF Outdoor UC 4x Singlemode G.652.D 9/125 HDPE	OS2 G.652.D
N174.182	LANmark-OF Outdoor UC 6x Singlemode G.652.D 9/125 HDPE	OS2 G.652.D
N174.183	LANmark-OF Outdoor UC 8x Singlemode G.652.D 9/125 HDPE	OS2 G.652.D
N174.185	LANmark-OF Outdoor UC 12x Singlemode G.652.D 9/125 HDPE	OS2 G.652.D
N174.191	LANmark-OF Outdoor UC 24x Singlemode G.652.D 9/125 HDPE	OS2 G.652.D
N174.203	LANmark-OF Outdoor UC 48x Singlemode G.652.D 9/125 HDPE	OS2 G.652.D
N174.215	LANmark-OF Outdoor UC 72x Singlemode G.652.D 9/125 HDPE	OS2 G.652.D
N174.227	LANmark-OF Outdoor UC 96x Singlemode G.652.D 9/125 HDPE	OS2 G.652.D

* Please contact Aginode local sales for other core numbers.

Product List -LSZH

Aginode ref.	Description	Grade
N175.470	LANmark-OF Outdoor UC 2x Bending insensitive Multimode OM3 50/125，LSZH	OM3
N175.471	LANmark-OF Outdoor UC 4x Bending insensitive Multimode OM3 50/125，LSZH	OM3
N175.472	LANmark-OF Outdoor UC 6x Bending insensitive Multimode OM3 50/125，LSZH	OM3
N175.473	LANmark-OF Outdoor UC 8x Bending insensitive Multimode OM3 50/125，LSZH	OM3
N175.475	LANmark-OF Outdoor UC 12x Bending insensitive Multimode OM3 50/125，LSZH	OM3
N175.481	LANmark-OF Outdoor UC 24x Bending insensitive Multimode OM3 50/125，LSZH	OM3
N175.487	LANmark-OF Outdoor UC 36x Bending insensitive Multimode OM3 50/125，LSZH	OM3
N175.493	LANmark-OF Outdoor UC 48x Bending insensitive Multimode OM3 50/125，LSZH	OM3
N175.505	LANmark-OF Outdoor UC 72x Bending insensitive Multimode OM3 50/125，LSZH	OM3
N175.517	LANmark-OF Outdoor UC 96x Bending insensitive Multimode OM3 50/125，LSZH	OM3
N177.470	LANmark-OF Outdoor UC 2x Bending insensitive Multimode OM4 50/125，LSZH	OM4
N177.471	LANmark-OF Outdoor UC 4x Bending insensitive Multimode OM4 50/125，LSZH	OM4
N177.472	LANmark-OF Outdoor UC 6x Bending insensitive Multimode OM4 50/125，LSZH	OM4
N177.473	LANmark-OF Outdoor UC 8x Bending insensitive Multimode OM4 50/125，LSZH	OM4
N177.475	LANmark-OF Outdoor UC 12x Bending insensitive Multimode OM4 50/125，LSZH	OM4
N177.481	LANmark-OF Outdoor UC 24x Bending insensitive Multimode OM4 50/125，LSZH	OM4
N177.487	LANmark-OF Outdoor UC 36x Bending insensitive Multimode OM4 50/125，LSZH	OM4
N177.493	LANmark-OF Outdoor UC 48x Bending insensitive Multimode OM4 50/125，LSZH	OM4
N177.505	LANmark-OF Outdoor UC 72x Bending insensitive Multimode OM4 50/125，LSZH	OM4
N177.517	LANmark-OF Outdoor UC 96x Bending insensitive Multimode OM4 50/125，LSZH	OM4
N179.470	LANmark-OF Outdoor UC 2x Bending insensitive Multimode OM5 50/125，LSZH	OM5
N179.471	LANmark-OF Outdoor UC 4x Bending insensitive Multimode OM5 50/125，LSZH	OM5
N179.472	LANmark-OF Outdoor UC 6x Bending insensitive Multimode OM5 50/125，LSZH	OM5
N179.473	LANmark-OF Outdoor UC 8x Bending insensitive Multimode OM5 50/125，LSZH	OM5
N179.475	LANmark-OF Outdoor UC 12x Bending insensitive Multimode OM5 50/125，LSZH	OM5
N179.481	LANmark-OF Outdoor UC 24x Bending insensitive Multimode OM5 50/125，LSZH	OM5
N179.487	LANmark-OF Outdoor UC 36x Bending insensitive Multimode OM5 50/125，LSZH	OM5
N179.493	LANmark-OF Outdoor UC 48x Bending insensitive Multimode OM5 50/125，LSZH	OM5
N179.505	LANmark-OF Outdoor UC 72x Bending insensitive Multimode OM5 50/125，LSZH	OM5
N179.517	LANmark-OF Outdoor UC 96x Bending insensitive Multimode OM5 50/125，LSZH	OM5
N174.470	LANmark-OF Outdoor UC 2x Singlemode G.652.D 9/125 LSZH	OS2 G.652.D
N174.471	LANmark-OF Outdoor UC 4x Singlemode G.652.D 9/125 LSZH	OS2 G.652.D
N174.472	LANmark-OF Outdoor UC 6x Singlemode G.652.D 9/125 LSZH	OS2 G.652.D
N174.473	LANmark-OF Outdoor UC 8x Singlemode G.652.D 9/125 LSZH	OS2 G.652.D
N174.475	LANmark-OF Outdoor UC 12x Singlemode G.652.D 9/125 LSZH	OS2 G.652.D
N174.481	LANmark-OF Outdoor UC 24x Singlemode G.652.D 9/125 LSZH	OS2 G.652.D
N174.487	LANmark-OF Outdoor UC 36x Singlemode G.652.D 9/125 LSZH	OS2 G.652.D
N174.493	LANmark-OF Outdoor UC 48x Singlemode G.652.D 9/125 LSZH	OS2 G.652.D
N174.505	LANmark-OF Outdoor UC 72x Singlemode G.652.D 9/125 LSZH	OS2 G.652.D
N174.517	LANmark-OF Outdoor UC 96x Singlemode G.652.D 9/125 LSZH	OS2 G.652.D

* Please contact Aginode local sales for other core numbers.

LANmark-OF Indoor/Outdoor Loose Tube UG Fiber Cable

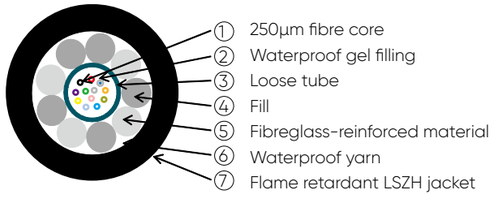
Application

Aginode LANmark-OF UG LSZH fibre cable is designed for universal indoor and outdoor applications.

This fiber cable is produced with 250m fiber into loose tube made of high modulus material, and the loose sleeve is filled with waterproof compound.The loose tube is wrapped with stripped fiber reinforced parts, and the outest layer is coated with a layer of LSZH jacket.

- Suitable for horizontal, vertical and pipe applications
- Applicalbe to standard multimode and singlemode fibre
- LSZH cable

UG Fibre Cable Structure



Environmental property

Impact Resistance	IEC 60794-1-E4
Crush Resistance	IEC 60794-1-E3
Flame retardant	IEC 60332-1
Flame retardant	IEC 60332-3
Installation Temperature	0 - 40°C
Operating temperature	-20 - 60°C
Storage Temperature	-20 - 60°C

Structural Dimensions and Mechanical Performance

Fibre count	cable diameter mm	weight kg/km	Max Tensile force Long /Short term N	Crush resistance (N/100mm)	Mini bend radius Static / Dynamic mm
2~12	7.2±0.5	58	600/1700	2000	72/144
24	9.1±0.5	99	600/1700	2000	91/182

Product List

Aginode ref.	Description	Grade
N175.640	LANmark-OF Indoor/Outdoor 2x Loose Tube UG LSZH, Multimode OM3 50/125	OM3
N175.641	LANmark-OF Indoor/Outdoor 4x Loose Tube UG LSZH, Multimode OM3 50/125	OM3
N175.642	LANmark-OF Indoor/Outdoor 6x Loose Tube UG LSZH, Multimode OM3 50/125	OM3
N175.643	LANmark-OF Indoor/Outdoor 8x Loose Tube UG LSZH, Multimode OM3 50/125	OM3
N175.645	LANmark-OF Indoor/Outdoor 12x Loose Tube UG LSZH, Multimode OM3 50/125	OM3
N175.651	LANmark-OF Indoor/Outdoor 24x Loose Tube UG LSZH, Multimode OM3 50/125	OM3
N177.640	LANmark-OF Indoor/Outdoor 2x Loose Tube UG LSZH, Multimode OM4 50/125	OM4
N177.641	LANmark-OF Indoor/Outdoor 4x Loose Tube UG LSZH, Multimode OM4 50/125	OM4
N177.642	LANmark-OF Indoor/Outdoor 6x Loose Tube UG LSZH, Multimode OM4 50/125	OM4
N177.643	LANmark-OF Indoor/Outdoor 8x Loose Tube UG LSZH, Multimode OM4 50/125	OM4
N177.645	LANmark-OF Indoor/Outdoor 12x Loose Tube UG LSZH, Multimode OM4 50/125	OM4
N177.651	LANmark-OF Indoor/Outdoor 24x Loose Tube UG LSZH, Multimode OM4 50/125	OM4
N179.640	LANmark-OF Indoor/Outdoor 2x Loose Tube UG LSZH, Multimode OM5 50/125	OM5
N179.641	LANmark-OF Indoor/Outdoor 4x Loose Tube UG LSZH, Multimode OM5 50/125	OM5
N179.642	LANmark-OF Indoor/Outdoor 6x Loose Tube UG LSZH, Multimode OM5 50/125	OM5
N179.643	LANmark-OF Indoor/Outdoor 8x Loose Tube UG LSZH, Multimode OM5 50/125	OM5
N179.645	LANmark-OF Indoor/Outdoor 12x Loose Tube UG LSZH, Multimode OM5 50/125	OM5
N179.651	LANmark-OF Indoor/Outdoor 24x Loose Tube UG LSZH, Multimode OM5 50/125	OM5
N17A.640	LANmark-OF Indoor/Outdoor 2x Loose Tube UG LSZH, Singlemode Bending insensitive OS2 9/125	OS2 G.657.A1
N17A.641	LANmark-OF Indoor/Outdoor 4x Loose Tube UG LSZH, Singlemode Bending insensitive OS2 9/125	OS2 G.657.A1
N17A.642	LANmark-OF Indoor/Outdoor 6x Loose Tube UG LSZH, Singlemode Bending insensitive OS2 9/125	OS2 G.657.A1
N17A.643	LANmark-OF Indoor/Outdoor 8x Loose Tube UG LSZH, Singlemode Bending insensitive OS2 9/125	OS2 G.657.A1
N17A.645	LANmark-OF Indoor/Outdoor 12x Loose Tube UG LSZH, Singlemode Bending insensitive OS2 9/125	OS2 G.657.A1
N17A.651	LANmark-OF Indoor/Outdoor 24x Loose Tube UG LSZH, Singlemode Bending insensitive OS2 9/125	OS2 G.657.A1
N174.640	LANmark-OF Indoor/Outdoor 2x Loose Tube UG LSZH, Singlemode OS2 9/125	OS2 G.652.D
N174.641	LANmark-OF Indoor/Outdoor 4x Loose Tube UG LSZH, Singlemode OS2 9/125	OS2 G.652.D
N174.642	LANmark-OF Indoor/Outdoor 6x Loose Tube UG LSZH, Singlemode OS2 9/125	OS2 G.652.D
N174.643	LANmark-OF Indoor/Outdoor 8x Loose Tube UG LSZH, Singlemode OS2 9/125	OS2 G.652.D
N174.645	LANmark-OF Indoor/Outdoor 12x Loose Tube UG LSZH, Singlemode OS2 9/125	OS2 G.652.D
N174.651	LANmark-OF Indoor/Outdoor 24x Loose Tube UG LSZH, Singlemode OS2 9/125	OS2 G.652.D

* Please contact Aginode local sales for other core numbers.

LANmark-OF Indoor/Outdoor Loose Tube MG Fiber Cable

Application

- Aginode LANmark-OF MG LSZH fibre cable is designed for general indoor and outdoor applications
- This fibre cable is produced with 250μm fibre into loose tube in watertight glass yarns and a LSZH jacket, the loose tube is filled with waterproof compound. The outer sheath is coated with fibreglass reinforcing parts
- The outest layer is LSZH jacket
- Can be installed indoor and outdoor in a duct
- Glass yarn protection and LSZH outer jacket
- Good water resistance and rodent retardant
- Singlemode OS2 G.657.A1, OM3 and OM4 fibre cables are all bending resistance fibres

MG Fibre Cable Structure Diagram

Product Characteristics

Impact resistance	IEC 60794-1
Crush Resistance	IEC 60794-1
Flame Retardant	IEC 60332-1 & IEC 60332-3
Installation Temperature	0 - 40°C
Operating temperature	-20 - 60°C
Storage Temperature	-20 - 70°C
Fibre count	48-core to 96-core
Flexibility property of fibre (flexible fibre only)	IEC60793-2-10

Structural Dimensions and Mechanical Performance

Fibre count	cable diameter mm	weight kg/km	Max Tensile force Long /Short term N	Crush resistance (N/100mm)	Mini bend radius Static / Dynamic mm
48	11.7	152	800/2000	2000	234/117
72	11.7	152	800/2000	2000	234/117
96	13.4	197	1000/3000	2000	268/134

Product List

Aginode ref.	Description	Grade
N175.757	LANmark-OF Indoor/Outdoor 48x Loose Tube MG, Multimode Bending insensitive OM3 50/125, LSZH	OM3
N175.763	LANmark-OF Indoor/Outdoor 72x Loose Tube MG, Multimode Bending insensitive OM3 50/125, LSZH	OM3
N175.769	LANmark-OF Indoor/Outdoor 96x Loose Tube MG, Multimode Bending insensitive OM3 50/125, LSZH	OM3
N177.757	LANmark-OF Indoor/Outdoor 48x Loose Tube MG, Multimode Bending insensitive OM4 50/125, LSZH	OM4
N177.763	LANmark-OF Indoor/Outdoor 72x Loose Tube MG, Multimode Bending insensitive OM4 50/125, LSZH	OM4
N177.769	LANmark-OF Indoor/Outdoor 96x Loose Tube MG, Multimode Bending insensitive OM4 50/125, LSZH	OM4
N179.757	LANmark-OF Indoor/Outdoor 48x Loose Tube MG, Multimode Bending insensitive OM5 50/125, LSZH	OM5
N179.763	LANmark-OF Indoor/Outdoor 72x Loose Tube MG, Multimode Bending insensitive OM5 50/125, LSZH	OM5
N179.769	LANmark-OF Indoor/Outdoor 96x Loose Tube MG, Multimode Bending insensitive OM5 50/125, LSZH	OM5
N174.757	LANmark-OF Indoor/Outdoor 48x Loose Tube MG, Singlemode G.652.D 9/125, LSZH	OS2 G.652.D
N174.763	LANmark-OF Indoor/Outdoor 72x Loose Tube MG, Singlemode G.652.D 9/125, LSZH	OS2 G.652.D
N174.769	LANmark-OF Indoor/Outdoor 96x Loose Tube MG, Singlemode G.652.D 9/125, LSZH	OS2 G.652.D
N17A.757	LANmark-OF Indoor/Outdoor 48x Loose Tube MG, Singlemode Bending insensitive G.657.A1 9/125	OS2 G.657.A1
N17A.763	LANmark-OF Indoor/Outdoor 72x Loose Tube MG, Singlemode Bending insensitive G.657.A1 9/125	OS2 G.657.A1
N17A.769	LANmark-OF Indoor/Outdoor 96x Loose Tube MG, Singlemode Bending insensitive G.657.A1 9/125	OS2 G.657.A1

* Please contact Aginode local sales for other core numbers.

LANmark-OF Indoor Singlemode Bow Type Fiber Cable

Description

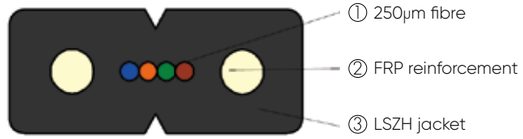
- Suitable for wiring to home and building
- Singlemode G657.A2 Bending insensitive fibre
- Optional cable core 1F/2F/4F
- Contain non-metallic reinforcement core

Application

- Aginode indoor single-mode indoor fibre cable, is mainly used in fibre-to-the-home and building wiring;
- Single-mode G657A2 fibre is used in this cable, which has the minimum bending radius
- The cable is available in 1 core/2-core/4-core;
- The cable is designed as an 8-shaped butterfly structure with FRP reinforcement cores on both sides, which provides better resistance and tension resistance than conventional indoor fibre cables;
- The outer sheath is made of low smoke and halogen free material to meet the requirement of flame retardant performance for indoor use
- The dry structure of the product adopted provides no grease pollution to the environment, but also good waterproof

Standards

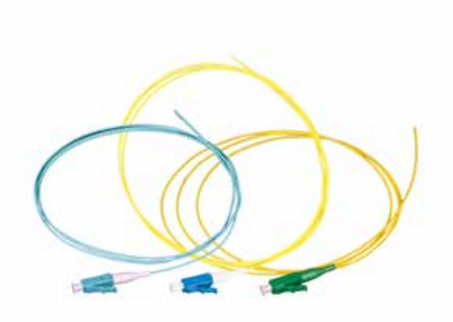
- ISO/IEC 11801



Product List

Aginode ref.	Description	Fibre grade G.657.A2
N174CH.001	FTTH Butterfly Cable 1-core Singlemode OS2 9/125 LSZH Black	1-core
N174CH.002	FTTH Butterfly Cable 2-core Singlemode OS2 9/125 LSZH Black	2-core
N174CH.004	FTTH Butterfly Cable 4-core Singlemode OS2 9/125 LSZH Black	4-core

LANmark-OF Pigtail



Description

- Factory assembly
- Tight Buffer type: 1-2 cm stripping in one action
- Maxistrip type: 100 cm stripping in one action
- Insertion loss: typical 0.1dB, maximum value: 0.25dB
- Minimum return loss: 30dB multimode, 55dB singlemode UPC, 65dB APC
- Fibre type: OM3, OM4, OM5, OS2
- Using bending insensitive fibre with a minimum bend radius of 7.5mm
- Compatible with Aginode LANmark-OF splice cassette
- 100% factory test

Application

- The pigtails are compatible with splice cassetteand with heat shrink protection (N890.021).
- The pigtails are recommended to be used with 900μm tight buffer fibre cables. Need to be careful when using with 250μm loose tube.
- During splicing, the outer jacket of the pigtail shall be removed until it can be put into the heat shrink tube.

Product List

Aginode ref.	Description	Connector type	Grade
N121.4TCY	LANmark-OF Pigtail SC/UPC SM Tight Buffer LSZH 9/125 1m Yellow	SC	OS2 G.657.A1
N121.4TLY	LANmark-OF Pigtail LC/UPC SM Tight Buffer LSZH 9/125 1m Yellow	LC	OS2 G.657.A1
N121.4TDY	LANmark-OF Pigtail SC/APC SM Tight Buffer LSZH 9/125 1m Yellow	SC/APC	OS2 G.657.A1
N121.4TPY	LANmark-OF Pigtail LC/APC SM Tight Buffer LSZH 9/125 1m Yellow	LC/APC	OS2 G.657.A1
N121.4TTY	LANmark-OF Pigtail ST SM Tight Buffer LSZH 9/125 1m Yellow	ST	OS2 G.657.A1
N121.4MCY	LANmark-OF Pigtail SC/UPC SM Maxistrip LSZH 9/125 1m Yellow	SC	OS2 G.657.A1
N121.4MLY	LANmark-OF Pigtail LC/UPC SM Maxistrip LSZH 9/125 1m Yellow	LC	OS2 G.657.A1
N121.4MTY	LANmark-OF Pigtail ST SM Maxistrip LSZH 9/125 1m Yellow	LC	OS2 G.657.A1
N121.5TCA	LANmark-OF Pigtail SC OM3 Tight Buffer LSZH 50/125 1m Aqua	SC	OM3
N121.5TLA	LANmark-OF Pigtail LC OM3 Tight Buffer LSZH 50/125 1m Aqua	LC	OM3
N121.5TTA	LANmark-OF Pigtail ST OM3 Tight Buffer LSZH 50/125 1m Aqua	ST	OM3
N121.5MCA	LANmark-OF Pigtail SC OM3 Maxistrip LSZH 50/125 1m Aqua	SC	OM3
N121.5MLA	LANmark-OF Pigtail LC OM3 Maxistrip LSZH 50/125 1m Aqua	LC	OM3
N121.5MTA	LANmark-OF Pigtail ST OM3 Maxistrip LSZH 50/125 1m Aqua	ST	OM3
N121.7TCA	LANmark-OF Pigtail SC OM4 Tight Buffer LSZH 50/125 1m Aqua	SC	OM4
N121.7TLA	LANmark-OF Pigtail LC OM4 Tight Buffer LSZH 50/125 1m Aqua	LC	OM4
N121.7TTA	LANmark-OF Pigtail ST OM4 Tight Buffer LSZH 50/125 1m Aqua	ST	OM4
N121.7MCA	LANmark-OF Pigtail SC OM4 Maxistrip LSZH 50/125 1m Aqua	SC	OM4
N121.7MLA	LANmark-OF Pigtail LC OM4 Maxistrip LSZH 50/125 1m Aqua	LC	OM4
N121.7MTA	LANmark-OF Pigtail ST OM4 Maxistrip LSZH 50/125 1m Aqua	ST	OM4
N121.9TCL	LANmark-OF Pigtail SC OM5 Tight Buffer LSZH 50/125 1m Lemon Green	SC	OM5
N121.9TLL	LANmark-OF Pigtail LC OM5 Tight Buffer LSZH 50/125 1m Lemon Green	LC	OM5
N121.9MCL	LANmark-OF Pigtail SC OM5 Maxistrip LSZH 50/125 1m Lemon Green	SC	OM5
N121.9MLL	LANmark-OF Pigtail LC OM5 Maxistrip LSZH 50/125 1m Lemon Green	LC	OM5

LANmark-OF SlimFlex Patch Cord

Description

- Optional LC/SC/ST/FC connector
- Optional OM3/OM4/OM5/OS2 bending insensitive fibre
- Duplex short short boot structure
- Lower insertion loss

Application

Aginode LANmark-OF bending insensitive duplex fibre patch cord is primarily used indoors, its typical installation environments includes:

- Connections from patch panel to equipment in the cabinet
- Connections within the data centers
- Applicable to fibre to the desktop

Features

- Patch cord meets international standards: IEC 60794-2-50
- Insertion loss meets the standards: IEC 61300-3-4, Max value: 0.25dB
- Return loss meets the standards: IEC 61300-3-6, Multimode maximum value: 35 dB, singlemode maximum value: 55dB
- Use Bending insensitive fibre with smaller bending radius
- Fibre cable adopts 2x2.0 mm structure, more suitable for high density environment
- Duplex short tail sleeve structure, saving more space
- Product serial number tag on the product to track its test data
- Fibre cable outer sheath color: Multimode Aqua, Singlemode Yellow
- Outer sheath material of fibre cable is OFNP, meeting UL certification

Design

LANmark-OF SlimFlex patch cords are designed according to the "crossover" principle, using (A1-B2,B1-A2), and meet the requirements of IEC 1180 and EN 50174-1:2009. Polarity conversion can be done on site.

Standards

- ISO/IEC 11801

Fibre cable characteristics	
Optical cable structure	2X2.0mm
Fibre Type	OM3/OM4/OM5/OS2
Type of Connector	LC/SC/ST/FC
Outer sheathing material	LSZH/OFNP
Transmission properties	
Insertion loss max.	0.25 dB
Mechanical property of optical cable	
Pressure-proof	100 N/cm
Maximum Force	200 N
Environmental performance parameters	
Operating temperatures	-10 - 60

Product List

Aginode ref.	Description	Grade
N122.4LLY2	LANmark-OF SlimFlex Duplex LC-LC Fibre Patch Cord OS2 LSZH 2m, Yellow	OS2 G.657.A1
N122.4CLY2	LANmark-OF SlimFlex Duplex LC-SC Fibre Patch Cord OS2 LSZH 2m, Yellow	OS2 G.657.A1
N122.4CCY2	LANmark-OF SlimFlex Duplex SC-SC Fibre Patch Cord OS2 LSZH 2m, Yellow	OS2 G.657.A1
N122.4TTY2	LANmark-OF SlimFlex Duplex ST-ST Fibre Patch Cord OS2 LSZH 2m, Yellow	OS2 G.657.A1
N122.4LLY2NP	LANmark-OF SlimFlex Duplex LC-LC Fibre Patch Cord OS2 OFNP 2m, Yellow	OS2 G.657.A1
N122.4CLY2NP	LANmark-OF SlimFlex Duplex SC-LC Fibre Patch Cord OS2 OFNP 2m, Yellow	OS2 G.657.A1
N122.4CCY2NP	LANmark-OF SlimFlex Duplex SC-SC Fibre Patch Cord OS2 OFNP 2m, Yellow	OS2 G.657.A1
N122.4TTY2NP	LANmark-OF SlimFlex Duplex ST-ST Fibre Patch Cord OS2 OFNP 2m, Yellow	OS2 G.657.A1
N122.4FFY2NP	LANmark-OF SlimFlex Duplex FC-FC Fibre Patch Cord OS2 OFNP 2m, Yellow	OS2 G.657.A1
N122.5LLA2	LANmark-OF SlimFlex Duplex LC-LC Fibre Patch Cord OM3 LSZH 2m, Aqua	OM3
N122.5CLA2	LANmark-OF SlimFlex Duplex SC-LC Fibre Patch Cord OM3 LSZH 2m, Aqua	OM3
N122.5CCA2	LANmark-OF SlimFlex Duplex SC-SC Fibre Patch Cord OM3 LSZH 2m, Aqua	OM3
N122.5TTA2	LANmark-OF SlimFlex Duplex ST-ST Fibre Patch Cord OM3 LSZH 2m, Aqua	OM3
N122.5LLA2NP	LANmark-OF SlimFlex Duplex LC-LC Fibre Patch Cord OM3 OFNP 2m, Aqua	OM3
N122.5CLA2NP	LANmark-OF SlimFlex Duplex SC-LC Fibre Patch Cord OM3 OFNP 2m, Aqua	OM3
N122.5CCA2NP	LANmark-OF SlimFlex Duplex SC-SC Fibre Patch Cord OM3 OFNP 2m, Aqua	OM3
N122.5TTA2NP	LANmark-OF SlimFlex Duplex ST-ST Fibre Patch Cord OM3 OFNP 2m, Aqua	OM3
N122.5FFA2NP	LANmark-OF SlimFlex Duplex FC-FC Fibre Patch Cord OM3 OFNP 2m, Aqua	OM3
N122.7LLA2	LANmark-OF SlimFlex Duplex LC-LC Fibre Patch Cord OM4 LSZH 2m, Aqua	OM4
N122.7CLA2	LANmark-OF SlimFlex Duplex SC-LC Fibre Patch Cord OM4 LSZH 2m, Aqua	OM4
N122.7CCA2	LANmark-OF SlimFlex Duplex SC-SC Fibre Patch Cord OM4 LSZH 2m, Aqua	OM4
N122.7TTA2	LANmark-OF SlimFlex Duplex ST-ST Fibre Patch Cord OM4 LSZH 2m, Aqua	OM4
N122.7LLA2NP	LANmark-OF SlimFlex Duplex LC-LC Fibre Patch Cord OM4 OFNP 2m, Aqua	OM4
N122.7CLA2NP	LANmark-OF SlimFlex Duplex SC-LC Fibre Patch Cord OM4 OFNP 2m, Aqua	OM4
N122.7CCA2NP	LANmark-OF SlimFlex Duplex SC-SC Fibre Patch Cord OM4 OFNP 2m, Aqua	OM4
N122.7TTA2NP	LANmark-OF SlimFlex Duplex ST-ST Fibre Patch Cord OM4 OFNP 2m, Aqua	OM4
N122.9LLL2	LANmark-OF SlimFlex Duplex LC-LC Fibre Patch Cord OM5 LSZH 2m, Lemon Green	OM5
N122.9CLL2	LANmark-OF SlimFlex Duplex SC-LC Fibre Patch Cord OM5 LSZH 2m, Lemon Green	OM5
N122.9CCL2	LANmark-OF SlimFlex Duplex SC-SC Fibre Patch Cord OM5 LSZH 2m, Lemon Green	OM5
N122.9LLL2NP	LANmark-OF SlimFlex Duplex LC-LC Fibre Patch Cord OM5 OFNP 2m, Lemon Green	OM5
N122.9CLL2NP	LANmark-OF SlimFlex Duplex SC-LC Fibre Patch Cord OM5 OFNP 2m, Lemon Green	OM5
N122.9CCL2NP	LANmark-OF SlimFlex Duplex SC-SC Fibre Patch Cord OM5 OFNP 2m, Lemon Green	OM5

*For other lengths and specifications, please contact Aginode local sales

LANmark-OF SlimFlex Fibre Patch Cord with Pull Tab

Application

LANmark-OF SlimFlex bending resistant fibre patch cord with Pull Tab uses bending insensitive fibre, reducing the minimum bending radius of the fibre to 10mm, thus avoiding excessive attenuation caused by bending the fibre due to limited using space.

The patch cord adopts circular fibre cable design with cable outer diameter of only 2.6mm, reducing the space occupied by the fibre cable. The handle design with Pull Tab makes it easier to plug and unplug during use, more suitable for high-density environment and data center, and reduces the risk of downtime due to collisions.

The patch cord adopts cross design to meet the need for polarity conversion in site installation (A1-B2, B1-A2). The design meets EC 11801 and EN 50174-1: 2009. The polarity conversion is achieved by simply opening the Uniboot cover and exchanging the two connectors.

- Bending resistant fibre optic patch cords
- Circular fibre cable design
- Outer sheath material of patch cord LSZH
- Uniboot structure at the end of the patch cord allows for polarity reversal
- Handle design for easy site installation and more suitable for high density environment
- Can be used for connection between patch panel and equipment in cabinets

Features

- Maximum insertion loss of connector in accordance with IEC 61300-3-4: 0.25 dB, typical value: 0.15dB
- Maximum return loss meets IEC 61300-3-6: Multimode 35dB; Singlemode 50dB
- Fibre cable sheath color: OM3/OM4 aqua, OS2 yellow
- Outer diameter of fibre cable: 2.6mm
- Bend-resistant cable with smaller bending radius

Standards

- ISO/IEC 11801

Fibre cable parameters	
Fibre Type	OM3/OM4/OS2
Fibre cable outer diameter	2.6mm
Fibre cable outer sheath material	LSZH
Transmission properties	
Minimum value of return loss	35dB for MM and 50dB for SM
Maximum value of insertion loss	0.25dB
Mechanical Characteristics	
Maximum Force (IEC 60794-1-2-E1)	200N
Pressure loss (IEC 60794-1-E3)	100N/cm
Application environment	
Temperature range	-20 - 60

Product List

Aginode ref.	Description	Fibre grade
N122.4LWY020	LANmark-OF SlimFlex Pull Tab Patch Cord LC OS2 LSZH 2m, Yellow	OS2 G.657.A1
N122.5LWA020	LANmark-OF SlimFlex Pull Tab Patch Cord LC OM3 LSZH 2m, Aqua	OM3
N122.7LWA020	LANmark-OF SlimFlex Pull Tab Patch Cord LC OM4 LSZH 2m, Aqua	OM4
N122.9LWL020	LANmark-OF SlimFlex Pull Tab Patch Cord LC OM5 LSZH 2m, Lemon Green	OM5

*For other lengths and specifications, please contact Aginode local sales

essential-OF Fibre Patch Panel

Application

Aginode essential series fibre patch panel can install 24 simplex ST or FC adaptors. It is installed in standard 19" inch cabinet or patch frame.

Characteristic

- With identification system for fibre port for convenient maintenance after installation
- Supports adaptor type: ST/FC
- 24-core ST/FC within 1U
- With the patch guides for orderly management of patch cords
- Suitable for tight buffer fibre cable (direct termination)
- Suitable for loose tube fibre cable (with splice cassette)
- With mechanical sliding device for convenient management after installation and with enclosed metal shell

Product List

Aginode ref.	Description	Dimensions W x H x D
N441CH.121TC	essential-OF 24 ports, ST/FC empty fibre patch panel, 1HU, drawer type	19in×1HU×240mm
N890.095	12-core splice cassette, suitable for loose tube (250μm) and tight tube fibre (900μm), compatible with Maxistrip and Titht pigtails	
N890.097	Splice cassette cover, suitable for splice cassette N890.095 and N890.096	
N890.021	Heat shrink protection, suitable for splice cassette N890.095	

* Further description for splice cassette see page 130.

LANmark-OF Fibre Patch Panel

Application

The typical application scenarios for Aginode essential-OF fixed patch panel include offices, campus networks, and small data centers. It provides users with the required density while also offering a user-friendly operating experience and flexible adapter configuration. It is suitable for installation in 19-inch cabinets or racks, and the distribution frame's overall appearance is a matte black spray coating.
The fixed patch panel of essential-OF is designed with 24-port and is used in conjunction with Snap-In adapters (adapters need to be purchased separately). It can accommodate a maximum of 12 duplex SC adapters or 24 duplex LC adapters, and comes with a set of optical fiber fusion splicing tray and can accommodate up to 48 fibers.

Characteristic

- Suitable for the installation of 19-inch rack or cabinet
- The fixed patch panel for 1U can be used with Snap-In adapters to achieve flexible and quick installation
- It can accommodate up to 12 duplex SC or 24 duplex LC Snap-In adapters
- The upper part of the front panel is equipped with white digital silk printing
- It is equipped with a self-contained optical fiber fusion splicing tray and can accommodate up to 48 fibers
- The rear-end snap-in is convenient for installing and removing the upper cap
- For tight buffer fiber cables (direct termination)
- For loose tube fiber cables (with splice cassette)

Product List

Aginode ref.	Description	Dimensions W x H x D
N441.104	essential-OF 24-port patch panel, Snap-In modular, 1U, including optical fiber fusion splicing tray, black 19in×1U×235mm	19in×1U×235mm
N890.021	Heat shrink protective tube, 100pcs/package, suitable for Aginode optical fiber fusion splicing tray	

* Further description for splice cassette see page 135.

LANmark-OF Sliding Patch Panel

Application

The Aginode LANmark OF SNAP-IN series patch panels can be installed in standard 19-inch cabinets or racks. Various SNAP-IN connectors can be installed, and the high-density design can support up to 48-core fiber optic cable termination (LC duplex) in a 1U space. The fiber patch panel also supports copper cable modules and can be used as a multimedia patch panel.

The fiber panel can support fiber adapters with SNAP-IN structure, suitable as an FTTD solution. The internal wiring space is sufficient and reasonable, with a self-contained fusion fiber tray, supporting up to 48-core fusion splicing.

Characteristic

- Types of supporting adapters: all SNAP-IN fiber adapters, and copper cable modules
- Integrated front-end cable manager with labeling strip for easy patch cord management
- Suitable for tightly buffered fiber cables (direct termination)
- Suitable for loose pipe type fiber cables (with fusion splicing box)
- The tail is equipped with fiber inlet holes, which can fix indoor and outdoor optical cables
- The rear-end tapping hole enhances the dust prevention effect, and after breaking it off, there is enough space to tie the inlet copper cables
- Equipped with a mechanical sliding device, easy to manage after installation, and seal the metal housing
- Available in three pull-out positions: pull-out, flush or recess
- Equipped with a fusion fiber tray, supporting up to 48-core fusion splicing
- Compatible with Aginode fibre patch panel and distribution box in fibre area
- ST and SC connectors available
- Hot melt (multimode) and epoxy (singlemode / multimode) available
- For splicing of multimode fibre, Pigtail is recommended to be used for fusion spice of singlemode fibre.

Product List

Aginode ref.	Description	Dimensions W x H x D
N441.303	LANmark-OF 24-Port drawer patch panel, Snap-In modular, integrated cable manager, 1U, white	19in x 1U x 300mm
N441.304	LANmark-OF 24-Port drawer patch panel, Snap-In modular, integrated cable manager, 1U, black	19in x 1U x 300mm
N890.021	Heat shrink protective sleeve, 100pcs/pack, for Aginode fusion fiber trays	
N420.655BK	LANmark Snap-In Blank Black 24x	

* LANmark dust cover information on page 152 (universal dust cover for Snap-in ports)

LANmark-OF Adapter

Application

- Fibre connectors can be used to complete the splice of Aginode's fibre products.
- It is designed for installation in fibre to the desk office area and central connection.

Characteristic

- For tight buffer cables or loose tube fibre cables used direct termination and pigtails
- Compatible with Aginode standard fibre adaptor
- Compatible with Aginode fibre patch panel and distribution box in fibre area
- ST and SC connectors available
- Hot melt (multimode) and epoxy (singlemode / multimode) available
- For splicing of multimode fibre, Pigtail is recommended to be used for fusion spice of singlemode fibre.

Product List

Aginode ref.	Description	Mode
N205.123	LANmark-OF ST Simplex Multimode Fibre Adaptor	Multimode
N205.153	LANmark-OF ST Simplex Singlemode Fibre Adaptor	Singlemode
N205.125	LANmark-OF FC Simplex Multimode Fibre Adaptor	Multimode
N205.154	LANmark-OF FC Simplex Singlemode Fibre Adaptor	Singlemode

LANmark-OF SNAP-IN Adapter

Application

Aginode LANmark-OF SNAP-IN series fibre adaptors are designed for SNAP-IN fibre patch panel and faceplates and can be used as fibre to the desktop FTTD solution.

Characteristic

- Used for interconnection of fibre patch cords or pigtails in fibre patch panel
- Used for interconnection of fibre connectors or pigtails in the working area
- Suitable for Aginode's fibre patch panel and distribution box in fibre area
- Connector type: ST, SC, LC
- Singlemode and multimode available

Product List

Aginode ref.	Description	Mode
N205.617	LANmark-OF LC Snap-In Duplex Multimode Fibre Adaptor	Multimode Aqua
N205.627	LANmark-OF LC Snap-In Duplex Singlemode Fibre Adaptor	Singlemode Blue
N205.613	LANmark-OF SC Snap-In Simplex Multimode Fibre Adaptor	Multimode
N205.623	LANmark-OF SC Snap-In Simplex Singlemode Fibre Adaptor	Singlemode
N205.614	LANmark-OF SC Snap-In Duplex Multimode Fibre Adaptor	Multimode
N205.624	LANmark-OF SC Snap-In Duplex Singlemode Fibre Adaptor	Singlemode

Optical Fiber Adaptor Faceplate

Application

The panel is standard fibre to desktop panel for LC duplex adapters and SC simplex adapters, with dust cover at the adapter end to prevent dust from entering and eye damage from direct laser irradiation.

Standard model

- Suitable for singlemode or multimode LC/SC adapters
- The adapter are with shutters
- With transparent label holder for labels or pictures
- Support 1 or 2 duplex LC adapters, or 1 or 2 SC simplex adapters
- Panel size: 80×100×23mm

SNAP-IN

- Suitable for singlemode or multimode SNAP-IN LC/SC adapters
- Compatible with copper SNAP-IN adapters
- Suitable for 45 panels
- Panel size: 74×125×34mm

Product List

Aginode ref.	Description	Fibre type	Number of adapters
N420L.035S1	Fibre Optic Adapter Panel LC Duplex Single Adapter Singlemode Blue	Singlemode	1
N420L.035M1	Fibre Optic Adapter Panel LC Duplex Single Adapter Multimode Aqua	Multimode	1
N420L.035S2	Fibre Optic Adapter Panel LC Duplex 2 Adapters Singlemode Blue	Singlemode	2
N420L.035M2	Fibre Optic Adapter Panel LC Duplex 2 Adapters Multimode Aqua	Multimode	2
N420.035	45 x 45 Fused Fibre Optic Panel, 2 Snap-In Modules, White		

ODF Patching Unit

Description

- Universal pull-out unit
- Front-end patch cord feed
- Back-end cable feed management
- Internal cable management unit
- Optional LC/FC/ST/SC interface
- Support indoor/outdoor cable fixing

Application

Aginode rack-mountable patching unit offers a complete cable management and patching design, supports modular and scalable rack mounting mode, helps users manage network changes.
This patching unit is especially designed for ODF and fused fibre system.
Users can order fully equipped solutions with fusion units and fusion accessories.

Standards

- ISO/IEC 11801

Installation

- 19" 4HU
- 4HU can support up to 72 FC/ST/SC or 144 LC connectors, with singlemode and multimode options
- With identifier

Dimensions

Installation heights: 4HU
External dimensions (LxDxH): 482.6mm x 300mm x 175mm

Product List

Aginode ref.	Description
N441CH.072SCMM	4HU Patching unit supports up to 72C SC multimode, including tail fibre and accessories
N441CH.072SCSM	4HU Patching unit, supports up to 72C SC singlemode, including tail fibre and accessories
N441CH.072FCMM	4HU Patching unit supports up to 72C FC multimode, including tail fibre and accessories
N441CH.072FCSM	4HU Patching unit, supports up to 72C FC singlemode, including tail fibre and accessories
N441CH.072STMM	4HU Patching unit supports up to 72C ST multimode, including tail fibre and accessories
N441CH.072STSM	4HU Patching unit, supports up to 72C ST singlemode, including tail fibre and accessories
N441CH.144LCMM	4HU Patching unit supports up to 144C LC multimode, including tail fibre and accessories
N441CH.144LCSM	4HU Patching unit, supports up to 144C LC singlemode, including tail fibre and accessories

LANmark-OF Splice Cassette

Application

Aginode splice cassette is suitable for LANmark and essential series fibre patch panel. Four splice cassettes can be overlaied in 1U space, supporting fusion of up to 96-core fibre cables to achieve high density requirements. Reasonable design ensures the minimum bend radius of the fibre coiling of fibres.

Aginode fibre splice cassette supports TB and Maxstrip pigtails, with optional heat shrink protection tube N890.021 and aluminum protection tube N890.003 as melting point protection.

N890.095

- 12-core splice cassette
- Support 2x6 core splice

N890.097

- Splice cassette cover
- Suitable for N890.095 splice cassette

N890CH.091S

- 96-core splice cassette
- Support 4x24 core splicing

N890.090

- 12-core splice cassette
- Support 2x6 core splice

N890.092

- Splice cassette cover
- Suitable for N890.090 splice cassette

LANmark-OF Splice Protection & Accessories

N890.021

- Heat shrinkage protector
- 100 PCS per pack
- Length: 45mm
- Compatible with tight buffer and loose tube fibres (250µm and 900µm fibres)
- Compatible with Tight Buffer and Maxistrip pigtails
- Suitable for N890.090 and N890.095

N890.146

- Large fibre fasteners
- Suitable for 12.3~18mm fibre cables
- Minimum aperture 25mm

N890.147C

- Small fibre fasteners
- Suitable for 4.3~11.9mm fibre cables
- Minimum aperture 20mm

Product List

Aginode ref.	Description
N890.095	LANmark-OF splice cassette, support 2x12 core splice
N890.097	LANmark-OF Splice cassette cover suitable for N890.095 splice cassette
N890.090	LANmark-OF 12 splice cassette, support 2x6 core splice
N890.092	LANmark-OF splice cassette cover, suitable for N890.095 splice cassette
N890CH.091S	LANmark-OF 96 splice cassette, support 4x24 core splice
N890.021	LANmark-OF heat shrinkage protector, 45mm 100pcs/package
N890.146	LANmark-OF large fibre fasteners, suitable for 12.3~18mm fibre cables
N890.147C	LANmark-OF small fibre fasteners, suitable for 4.3~11.9mm fibre cables

Data Centre Solutions
Copper Products
Voice Products
Optical Fibre Products
Cabinets/Tools/Accessories
LANsense AIM System
Industrial Ethernet/ Maritime Solution

Cabinets/Accessories/Tools

Cabinet

Application

Aginode high quality universal cabinet is designed to install products of Aginode. The back door of cabinet is equipped double open door to save the space; the cabinet side use material of high quality cold-rolled steel plate which can be conveniently disassembled without tools. the cabinet top and bottom are installed with fixed triangle, to strengthen the cabinet structure; the cabinet body is reinforced with strong steel material which is corrosion resistant, electrically conductive and strong design. The cabinet and server cabinet are UL certified.

- ANSI/EIA-310-C/D
- The internal equipment column is designed with double rail without segment and can be adjusted slightly.
- The fixed column of the equipment is marked with the number of RMU by silk screen to facilitate the accurate positioning of the equipment.
- Optional arc mesh door or glass flat door.
- Maximum static load: 1000kg~1200kg
- Optional accessories: Tray/division plate

Product list

Aginode ref.	Description	Specifications
N300.C1311S	Universal series cabling cabinet, aluminum frame, 42HU, 800 W×600 D, perforated steel plate door, double fans, single open front door and single open back door, including 100 sets of white iron screws, vertical cable manager and multifunctional fixing plate	42HU 19in 800x600mm (WxD)
N300.C1511S	Universal series cabling cabinet, aluminum frame, 42HU, 800 W×800 D, perforated steel plate door, double fans, single open front door and single open back door, including 100 sets of white iron screws, vertical cable manager and multifunctional fixing plate	42HU 19in 800x800mm (WxD)
N300.C1712S	Universal series cabling cabinet, aluminum frame, 42HU, 800 W×1,000 D, perforated steel plate door, double fans, single open front door and single open back door, including 100 sets of white iron screws, vertical cable manager and multifunctional fixing plate	42HU 19in 800x1000mm (WxD)
N300.C1812S	Universal series cabling cabinet, aluminum frame, 42HU, 800 W×1,100 D, perforated steel plate door, double fans, single open front door and single open back door, including 100 sets of white iron screws, vertical cable manager and multifunctional fixing plate	42HU 19in 800x1100mm (WxD)
N300.C7712	Universal series server cabinet, aluminum frame, 42HU, 600 W×1,000 D, perforated steel plate door, double fans, single open front door and double open back door, including 100 sets of white iron screws	42HU 19in 600x1000mm (WxD)
N300.C7812	Universal series server cabinet, aluminum frame, 42HU, 600 W×1,100 D, perforated steel plate door, double fans, single open front door and double open back door, including 100 sets of white iron screws	42HU 19in 600x1100mm (WxD)
N300.C7912	Universal series server cabinet, aluminum frame, 42HU, 600 W×1,200 D, perforated steel plate door, double fans, single open front door and double open back door, including 100 sets of white iron screws	42HU 19in 600x1200mm (WxD)
N310.138	Tray/division plate Suitable for standard cabinet/server cabinet with a depth of 600mm~800mm and a net depth of 400mm.	19in 400mm Depth
N310.158	Tray/division plate Suitable for standard cabinet/server cabinet with a depth of 800mm~1,000mm and a net depth of 600mm.	19in 600mm Depth
N310.178	Tray/division plate Suitable for standard cabinet/server cabinet with a depth of 1,000mm~1,200mm and a net depth of 700mm.	19in 700mm Depth
N320.138	Vertical cable wire management Suitable for General series cabinet 42HU, 120mm depth, 75mm width	42HU 75x120mm (WxD)
N320.518	Vertical multifunctional fixing plate Suitable for General series cabinet 42HU, 75mm width	42HU 75mm Width
N320.528	Vertical multifunctional fixing plate Suitable for General series cabinet 42HU, 150mm width	42HU 150mm Width
N320.538	Vertical multifunctional fixing plate Suitable for General series cabinet 42HU, 250mm width	42HU 250mm Width

* Please consult Aginode local sales for other specifications.

Product list

Aginode ref.	Description	Specifications
N300.C1311MS	Universal series cabling cabinet, aluminum frame, 42HU, 800 W×600 D, perforated steel plate door, double fans, single open front door and single open back door, including 100 sets of white iron screws, vertical cable manager and multifunctional fixing plate	42HU 19in 800x600mm (WxD)
N300.C1511MS	Universal series cabling cabinet, aluminum frame, 42HU, 800 W×800 D, perforated steel plate door, double fans, single open front door and single open back door, including 100 sets of white iron screws, vertical cable manager and multifunctional fixing plate	42HU 19in 800x800mm (WxD)
N300.C1712MS	Universal series cabling cabinet, aluminum frame, 42HU, 800 W×1000 D, perforated steel plate door, double fans, single open front door and single open back door, including 100 sets of white iron screws, vertical cable manager and multifunctional fixing plate	42HU 19in 800x1000mm (WxD)
N300.C1812MS	Universal series cabling cabinet, aluminum frame, 42HU, 800 W×1,100 D, perforated steel plate door, double fans, single open front door and single open back door, including 100 sets of white iron screws, vertical cable manager and multifunctional fixing plate	42HU 19in 800x1100mm (WxD)
N300.C2712M	Universal series server cabinet, aluminum frame, 42HU, 600 W×1,000 D, perforated steel plate door, double fans, single open front door and double open back door, including 100 sets of white iron screws	42HU 19in 600x1000mm (WxD)
N300.C2812M	Universal series server cabinet, aluminum frame, 42HU, 600 W×1,100 D, perforated steel plate door, double fans, single open front door and double open back door, including 100 sets of white iron screws	42HU 19in 600x1100mm (WxD)
N300.C2912M	Universal series server cabinet, aluminum frame, 42HU, 600 W×1,200 D, perforated steel plate door, double fans, single open front door and double open back door, including 100 sets of white iron screws	42HU 19in 600x1200mm (WxD)

* Please consult Aginode local sales for other specifications.

Open Racks

Application

The high quality open rack is used for installation of Aginode cabling products. The main structure of the open rack is made of high strength aluminium-magnesium alloy; it is simple and portable in design, and can be equipped with narrow or wide vertical cable managers on both sides, which are suitable for of a large number of cables; it is simple in installation and can be fixed on the ground to increase the stability of the rack, protect the stability of the cable management tray, lines and equipment; and it can be used for rack-type servers.

- ANSI/EIA-310-C/D
- Good ventilation performance
- The fixed column of the equipment is marked with the number of RMU by silk screen to facilitate the accurate positioning of the equipment
- Maximum load: 800kg~1,000kg
- Optional accessories:
  1. Vertical cable wire management
  2. Tray/division plate

Product list

Aginode ref.	Description	Specifications
N302.C418	Two-pillar open rack 45U	45HU 19in 517x376mm (W x D)
N302.C428	Four-pillar open rack 45U	45HU 19in 530x1,036mm (W x D)
N302.C416	Two-pillar open rack 42U	42HU 19in 517x376mm (W x D)
N302.C426	Four-pillar open rack 42U	42HU 19in 530x1036mm (W x D)
N322.C128	Vertical cable wire management 3.65' Suitable for 45HU two-pillar rack, Width 90mm Depth 312mm	45HU 90x312mm (W x D)
N322.C126	Vertical cable wire management 3.65' Suitalbe for 42HU two-pillar rack, Width 90mm Depth 312mm	42HU 90x312mm (W x D)
N322.C129	Vertical cable wire management 3.65' Suitable for 45HU four-pillar rack, Width 90mm Depth 194mm	45HU 90x194mm (W x D)
N322.C127	Vertical cable wire management 3.65' Suitable for 42HU four-pillar rack, Width 90mm Depth 194mm	42HU 90x194mm (W x D)
N322.C228	Vertical cable wire management 6' Suitalbe for 45HU two-pillar rack, Width 154mm Depth 312mm	45HU 154x312mm (W x D)
N322.C226	Vertical cable wire management 6' Suitable for 42HU two-pillar rack, Width 154mm Depth 312mm	42HU 154x312mm (W x D)
N322.C229	Vertical cable wire management 6' Suitabe for 45HU four-pillar rack, Width 154mm Depth 194mm	45HU 154x194mm (W x D)
N322.C227	Vertical cable wire management 6' Suitable for 42HU four-pillar rack, Width 154mm Depth 194mm	42HU 154x194mm (W x D)
N322.C328	Vertical cable wire management 8' Suitable for 45HU two-pillar rack, Width 205mm Depth 312mm	45HU 205x312mm (W x D)
N322.C326	Vertical cable wire management 8' Suitable 42HU two-pillar rack, Width 205mm Depth 312mm	42HU 205x312mm (W x D)
N322.C329	Vertical cable wire management 8' Suitable for 45HU four-pillar rack, Width 205mm Depth 194mm	45HU 205x194mm (W x D)
N322.C327	Vertical cable wire management 8' Suitable for 42HU four-pillar rack, Width 205mm Depth 194mm	42HU 205x194mm (W x D)
N312.418	Tray/division plate Suitable for two-pillar rack, net depth 500mm, rack bilateral tray 2U	2HU 500mm Depth
N312.428	Tray/division plate Suitable for two-pillar rack, net depth 700mm, rack bilateral tray 2U	2HU 700mm Depth
N332.428	Four-pillar rack side plate, 45HU rack, black	
N332.448	Four-pillar rack side plate, 42HU rack, black	
N312.438	Tray/division plate Suitable for four-pillar rack, net depth 700mm	700 mm Depth

* Please consult Aginode local sales for other specifications.

Wall Mountable Cabinet

Application

The high quality wall mountable cabinet is used for installation of Aginode integrated cabling products. The main structure is made of combined aluminum-magnesium alloy profiles and are closely combined with positioning three-way joints. Equipment fixed column can be adjusted back and forth to make the cabinet being suitable for placement of all kinds of small 19" frame; The appearance of the case is screw-free, so as to increase the aesthetic effect of the case.

- ANSI/EIA-310-C/D
- The fixed column of the equipment is marked with the number of RMU by silk screen to facilitate the accurate positioning of the equipment.
- Mesh flat door
- Moveable side door
- Optional accessories: cable manager

Product list

Aginode ref.	Description
N301.338	Wall mounted cabinet 15HU 19in, Depth 600mm, mesh flat door
N330.018	Aluminum blank panel, 1HU
N330.028	Aluminum blank panel, 2HU

Overhead Patching Frame

Description

- Installation of 19-inch patch panel
- Suitable for high density patching in data center
- Optional patch cord management loop

Features

LANmark overhead patching frame is suitable for data center and can be hoisted under the grid bridge. Vertical and inclined planes can be selected for installation. The inclined surface is easy for maintenance personnel to operate. The overhead patching frame can be installed with copper cable and fibre patch panel, optional 2HU, 4HU.

Product list

Aginode ref.	Description
N345.420CH	LANmark Overhead Patching Frame 2HU, Metallic
N345.400WCH	LANmark Overhead Patching Frame 4HU, Metallic
N345.400BCH	LANmark Overhead Patching Frame 4HU, Black
N345.401	LANmark Overhead Patching Frame Cable Management Loops

Cable Management & Patch Guides Blank Panel

Application

- Patch guides
- For a tidy and orderly installation system, Aginode can provide a full range of cable management accessories for standard 19-inch installation
- The cables be placed neatly within the patch guides
- 1HU and 2HU are available
- The fibre patch cord and copper patch cord use the same cable management

Product list

Aginode ref.	Description	Specification W x H x D
N102.117	1HU horizontal cable management, white	19in 1 HU
N102.117BK	1HU horizontal cable management, black	19in 1 HU
N21MC24-1	1HU horizontal cable management, black	19in 1 HU
N102.127	2HU horizontal cable management, white	19in 2 HU
N320.648	4U Horizontal cable trunking	

Secure Lock

Application

Aginode LANmark Secure Lock port blockers contain both optical and copper: Duplex LC Port Blocker and RJ45 Port Blocker.

Features

- Control of currently unavailable or unauthorized optical and copper ports
- Can be managed in color
- RJ45 port blocker does not work with duplex LC port blocker and key
- Protect modules from dust and harmful foreign objects
- Enable secure connections to public and shared areas
- Reduce connectivity risk in data centers, financial services, healthcare and other mission-critical networks.
- Simpler installation and removal will not affect the contact effectiveness of the module or degrade the performance of the network connection.
- RJ45 port blocker matches the full range of Aginode RJ45 modules
- Duplex LC port blocker matches the full range of Aginode duplex LC adapters

Operating Temperature

Temperature (working)	-20 ℃ to +60 ℃

Product list

Aginode ref.	Description	Pack Information
N110.SRJPBR	LANmark Secure Lock RJ45 Secure Lock Red	100pcs/Bag
N110.SRJPBB	LANmark Secure Lock RJ45 Secure Lock Blue	100pcs/Bag
N110.SRJPBK	LANmark Secure Lock RJ45 Secure Lock Black	100pcs/Bag
N110.SRJPKK	LANmark Secure Lock Key RJ45 Port special Black	5pcs/Bag
N124.SLCPBR	LANmark-OF Secure Lock Duplex LC Port Red	100pcs/Bag
N124.SLCPBB	LANmark Secure Lock Duplex LC Port Blue	100pcs/Bag
N124.SLCPKK	LANmark-OF Secure Lock Key Duplex LC Port special Black	100pcs/Bag

Detachable Pulling Eye

Description

Aginode detachable Pulling eye, is mainly used for site installation of MTP pre-terminated fibre cables. The traditional Pulling eye is assembled at the factory with a pre-terminated product that is cut and discarded after installation on site.
Unlike the traditional Pulling Eye, this product is detachable and reusable.
It's green way to reduce the factory assembly process and simplify the complexity of packaging.

Application

- Detachable
- Suitable for LANmark-OF ENSPACE pre-terminated fibre cables
- Up to 72-core MPO pre-terminated fibre cable
- With/without bellows to meet the needs of different applications
- Minimum pulling force up to 450N
- 1m long
- Zipper design for easier installation and removal
- Reusable

Product list

Aginode ref.	Description
N890.100HP	Detachable pulling eye with Bellows 100cm
N890.100EP	Detachable pulling eye 100cm

FIBREROUTE Trunking System

Application

The cable paths in a data centre can be very complex and need to support multiple services, which can include cooling services and power in addition to copper and fibre data cabling. We often need to find ways to avoid obstacles in routing paths, so TIA and ISO suggest that the best practice is to install fibre cabling into a separate path system to stay away from cables such as power cable or copper cable.

The FIBREROUTE system provides a dedicated, rigid fibre optic pathway. It protects cables and links and helps maintain high-speed transmission. Adaptors that connect channels and fittings control the bend radius of fibre cables and MPO trunks. Fibre optic cables are separated from horizontal copper cables for ease of movement, additions, and changes, and for fast expansion and interconnection with channels of different sizes.

The modular components of FIBREROUTE are made of high-strength plastic are light in weight and easy to install, providing a smooth surface without any sharp edges and pressure points to avoid damage to the cable, and simultaneously ensuring the minimum bend radius for the normal data transmission of the fibre cable.

Product list

Aginode ref.	Description
N350.120FC00P	FIBREROUTE 120mm FIBREROUTE trunking system, 2m/channel, Yellow
N350.120FC10P	FIBREROUTE 120mm FIBREROUTE trunking system Cover
N350.240FC00P	FIBREROUTE 240mm FIBREROUTE trunking system, 2m/channel, Yellow
N350.240FC10P	FIBREROUTE 240mm FIBREROUTE trunking system Cover
N350.120FA01A	FIBREROUTE 120mm 90° Equal Bend
N350.120FA11A	FIBREROUTE 120mm 90° Equal Bend Cover
N350.240FA01A	FIBREROUTE 240mm 90° Equal Bend
N350.240FA11A	FIBREROUTE 240mm 90° Equal Bend 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° Upward Adaptor Elbow
N350.120FA31A	FIBREROUTE 120mm 45° Upward Adaptor Elbow Cover
N350.240FA21A	FIBREROUTE 240mm 45° Upward Adaptor Elbow
N350.240FA31A	FIBREROUTE 240mm 45° Upward Adaptor Elbow Cover
N350.120FA22A	FIBREROUTE 120mm 45° Downward Adaptor Elbow
N350.120FA32A	FIBREROUTE 120mm 45° Downward Adaptor Elbow Cover
N350.240FA22A	FIBREROUTE 240mm 45° Downward Adaptor Elbow

Product list

Aginode ref.	Description
N350.120FC03A	FIBREROUTE 120mm End-cap
N350.240FC03A	FIBREROUTE 240mm End-cap
N350.120FC01A	FIBREROUTE 120mm Equal Adaptor
N350.240FC01A	FIBREROUTE 240mm Equal Adaptor
N350.120FC02A	FIBREROUTE 120mm Pipe Socket
N350.240FT01A	FIBREROUTE 240mm-120mm Horn Coupling
N350.240FT11A	FIBREROUTE 240mm-120mm Horn Coupling Cover
N350.240FT21A	FIBREROUTE 240mm-120mm Vertical Tee
N350.240FT31A	FIBREROUTE 240mm-120mm Vertical Tee Cover
N350.240FT41A	FIBREROUTE 240mm-120mm Equal Tee
N350.240FT51A	FIBREROUTE 240mm-120mm Equal Tee Cover
N350.240FT61A	FIBREROUTE 240mm-120mm Cross
N350.240FT71A	FIBREROUTE 240mm-120mm Cross Cover
N350.003SD01A	FIBREROUTE Channel Lower Lead Port (90mm)
N350.003SD02A	FIBREROUTE Channel Lower Lead Port (130mm)
N350.003SD03A	FIBREROUTE Channel Lower Lead Port (60mm)
N350.003SD10A	FIBREROUTE Channel Lower Lead Port Hose
N350.120FTT1A	FIBREROUTE 120mm-TE FibreGuide 4x4 Horn Coupling
N350.120FTT2A	FIBREROUTE 120mm-TE FibreGuide 4x6 Horn Coupling
N350.120FTP1A	FIBREROUTE 120mm-Panduit FibreRunner 4x4 Horn Coupling
N350.120FTP2A	FIBREROUTE 120mm-Panduit FibreRunner 6x4 Horn Coupling
N350.003SS00S	FIBREROUTE Accessories -T Type Screw, Nuts
N350.003SS01S	FIBREROUTE Accessory-Round handle nut
N350.003SMC2	FIBREROUTE 240 Bridge Frame Support Fixture (L-type Side Hanging)
N350.003SMC1	FIBREROUTE 120 Bridge Frame Support Fixture (L-type Side Hanging)
N350.003SMR2	FIBREROUTE 240 Cabinet/Rack Support Fixture
N350.003SMR1	FIBREROUTE 120 Cabinet/Rack Support Fixture
N350.003SMB2	FIBREROUTE 240 Cross Bar Support Base and Fixture
N350.003SMB1	FIBREROUTE 120 Cross Bar Support Base and Fixture

* Please consult Aginode local sales for other specifications.

FIBREROUTE Planner

Application

Aginode's FIBREROUTE Planner is a Visio-based channel planning tool that allows users to create a FIBREROUTE layout and automatically calculate and generate a list of materials (BOM) exported to Excel for cost budgeting. This software helps system designers, installers, and integrators quickly and efficiently create professional data centre layout drawings that clearly show the layout of each cabinet and the fibreroute above the cabinet.

The software simplifies the design approach with the following additional tools.

- A unique library of intelligent models
- Elevation and section views of the data centre room layout
- Metric and US unit templates
- Easy to find product selection tools for any Aginode fibreroute model
- Export capability from Visio to generate a list of materials in Excel format
- Hyperlinks to the data sheets on Aginode website available
- Related video training and comprehensive user manual

Free design software
FIBREROUTE Planner

Download Address:
https://www.aginode.net/zh/Resources/Software-Tools.html

Tools

110 Voice Series 1/5 Punch Down Tool

- Suitable for connection operation of cable, 110 patching block and patch panel
- Reversible blades help to terminate without cutting the cable

IDC Series Punch Down Tools

- PCB Patch Panel
- essential Cat5e Module
- IDC module

SNAP-IN Series Module Crimping Tools

- Applicable to all SNAP-IN modules of Aginode

GG45 Module Termination Tools

- LANmark-7/7A GG45 SNAP-IN Module

Product list

Aginode ref.	Description
N21227	1 pair 110 punch down tool
N21228	5 pairs 110 punch down tool
N102.107	IDC punch down tool
N420.567	Snap-In crimping tool
N422.117	LANmark-7A termination tool
N422.118	LANmark-7 termination tool blades, 5pcs/set
N420.110	Aginode cable stripper, 110 punchdown tool

Tools

Aginode cable stripper, 110 punchdown tool

- 110 Wire Bond function

Product list

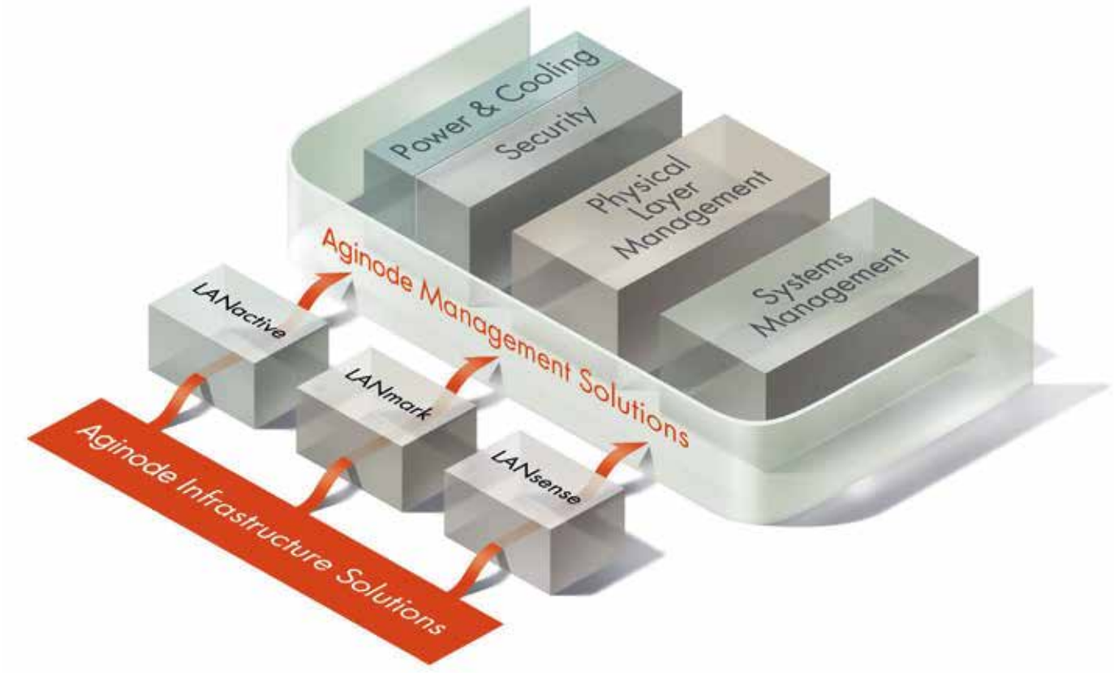
Aginode ref.	Description
N429.620	LANmark Keystone clip, suitable for GG45/essential-5 24pcs/set
N429.625	LANmark Keystone clip, suitable for EVO, Red 24pcs/set
N429.626	LANmark Keystone clip, suitable for EVO, Yellow 24pcs/set
N429.627	LANmark Keystone clip, suitable for EVO, Blue 24pcs/set
N421.701BLA	LANmark Shutter, Black 100 Pcs/Set
N421.701BLU	LANmark Shutter, Blue 100 Pcs/Set
N421.701DGR	LANmark Shutter, Dark Grey 100 Pcs/Set
N421.701GRE	LANmark Shutter, Green 100 Pcs/Set
N421.701ORA	LANmark Shutter, Orange 100 Pcs/Set
N421.701RED	LANmark Shutter, Red 100 Pcs/Set
N421.701YEL	LANmark Shutter, Yellow 100 Pcs/Set
N421.701WHI	LANmark Shutter, White 100 Pcs/Set
N100.100	Hook & Loop Cable Strap 25m Roll

Data Centre Solutions
Copper Products
Voice Products
Optical Fibre Products
Cabinets/Tools/Accessories
LANsense AIM System
Industrial Ethernet/ Maritime Solution

AIM System

LANsense AIM
Master your network artery

LANsense™ AIM



LANsense is Aginode's AIM system, which is composed of Browser/Server-based software and LANsense hardware. It can monitor and discover the network connectivity in real time, to ensure network connections are secure and that connectivity documentation is always 100% accurate. The LANsense program is customisable and can be retrofitted to existing systems.

Advantages

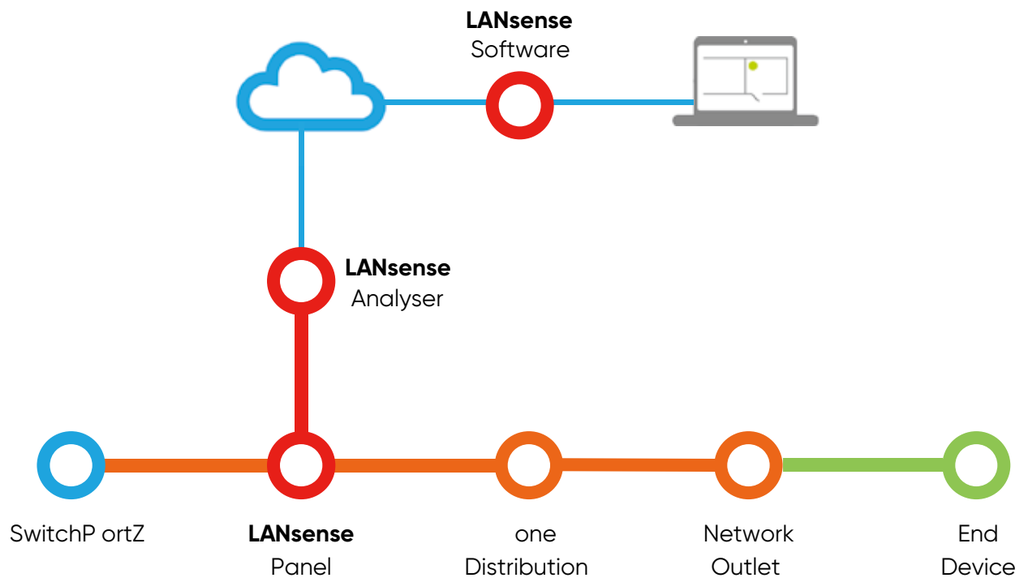
- Enhanced system security
- Effective change control and management
- System downtime reduced
- Asset management
- Remote site monitoring

Aginode, as a leader in the AIM software field, provides software and software renewal licenses:

- LANsense enterprise business pack - per rack licence package

* Please contact Aginode local sales for more information about becoming a Aginode certified LANsense partner.

LANsense AIM systems



Detect (dis)connects in your network

Analyser

Copper panel

Fibre panel

Automated Infrastructure Management (AIM)

LANsense TGA Analyzer 24 Ports

- Size-1U
- Connects up to 24 smart patch panels
- Able to detect 576 copper ports and 76 optical fiber ports
- The analyzer is black in color

Description

The LANsense analyzer is used to monitor the On-Off of all network ports and can record changes in an event log. It also continuously updates and maintains the connected database. The analyzer is connected to intelligent copper cables and optical fiber patch panels, using standard copper patch cord RJ45 for I/O lines. The analyzer is connected to the LANsense software through the network.

- The LANsense analyzer comes with a self-contained RJ45 port as the connection port for the patch panel.The analyzer can provide 24 port types.
- A single 24-port analyzer can connect up to 24 copper/optical fiber patch panels, or a combination of both.
- The LANsense analyzer supports both cross-connect and straight-connect configurations.
- The LANsense analyzer is available with EU, UK, and US power socket options.

Standard

- ISO/IEC 11801
- ISO/IEC 18598

Product List

Nexans ref.	Description
NLS3.ANALYSER24	LANsense TGA Analyzer with 24-port

LANsense TGA Copper Patch Panels

Application

- LANsense TGA Copper Patch Panels
- LANsense intelligent patch panel
- Modular 24-port patch panel
- Adapt to LANmark EVO copper connectors
- Self-contained Keystone adapter clip and Aginode's exclusive shielding grounding device
- Adapts to Cat 6, Cat 6A, Cat 7A modules
- Port with LED light to indicate work order operation and management
- Self contains dust cover

Description

- The LANsense copper patch panel has an embedded detection device that can detect the insertion and removal of port patch cables and provide feedback to the analyzer through I/O cables.
- The copper patch cable ports self contains LED lights to assist with the working operations, and simplify the functions of patching and patch cord identification.
- The top-to-down closing dust cover equipped on the LANsense patch panel also serves as a mean of detecting the patch cord insertion and removal.
- The patch is black in color and is 1U in size.

Standard

- ISO/IEC 11801

Product List

Nexans ref.	Description	I/O wire connection type
NLS3.CU24B	LANsense TGA copper patch panel	RJ45

LANsense Fibre Patch Panels

TGA optical fiber patch panel 48 LC/LC multimode black in color

- Pre-assembled patch panel, convenient for installation
- Optional OM4 or OS2 single-mode
- The top-to-down closing dust cover with detection function
- 48-core duplex LC optical fiber channel
- Specially optimized for the installation of pre-terminated fiber cables
- The label attached is convenient for port identification andpatchin
- Each port has LED lights to assist with the working operation

Description

The new pre-assembled LC/LC patch panel is suitable for installation in buildings and data centers. The patch panel is pre-installed with a LC adapter, providing 48 LC channels for front-end connection and supporting fusion splicing and cable fixation of optical fibers. The multimode type of this patch panel is black in color. The OM4 LC adapter is aqua green; the single-mode LC adapter is blue; the LED light on the port can assist in simple working operation, facilitating patching and patching tracing.This optical fiber patch panel can monitor the insertion and removal of patch cables through the dust cover.The dust cover also protects the LC adapter from dust ingress.The RJ45 I/O ports at the rear-end of the optical fiber patch panel allow LANsenseTGA analyzer to be connected using standard patch cord.

Standard

- ISO/IEC 11801

Product List

Nexans ref.	Description	I/O wire connection type
NLS3.PLC48A	LANsense TGA optical fiber patch panel 48 LC/LC multimode black	RJ45
NLS3.PLC48B	LANsense TGA optical fiber patch panel 48 LC/LC single-mode black	RJ45

LANsense TGA Sliding Fibre Panels

TGA optical fiber patch panel 48 MTP/LC Straight-through polarity Multimode Ultra-low loss Black

- Pre-assembled patch panel, convenient for installation
- Optional OM4 or single-mode
- The top-to-down closing dust cover with detection function
- 48-core duplex LC optical fiber channel
- Specially optimized for the installation of pre-terminated fiber cables
- The label attached is convenient for port identification andpatchin
- Each port has LED lights to assist with the working operation

Description

- The new pre-assembled MPO patch panel is optimized for data center installation.
- The patch panel is pre-installed with the LC adapter, providing 48 LC channels for front-end connection and 4 MPO connections for rear-end. The multimode and singlemode types of this patch panel are black in color.
- The OM4 LC adapter is aqua green in color
- The single-mode LC adapter is blue in color
- The LED light on the port assists in the simple working operation, and also assists the patching and patch cable tracing.
- This optical fiber patch panel allows monitoring of patch cord insertion and removal through the dust cover.The dust cover also protects the LC adapter from dust ingress.
- The RJ45 I/O ports on the rear-end of the optical fiber patch panel allows the LANsenseTGA analyzer to be connected by using standard patch cord.

Standard

- ISO/IEC 11801

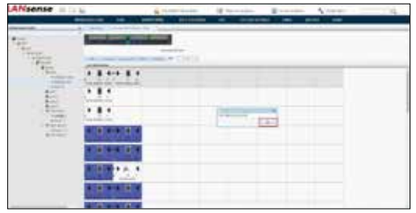
Product List

Nexans ref.	Description	I/O wire connection type
NLS3.MSLC48A	LANsense TGA optical fiber patch panel 48 MTP/LC Straight-through polarity Multimode Ultra-low loss Black	RJ45
NLS3.MSLC48B	LANsense TGA optical fiber patch panel 48 MTP/LC Straight-through polarity Singlemode Low loss Black	RJ45

LANsense Software

Application

LANsense software is a 64-bit secure and reliable application program based on Browser/Server software. The software communicates with the LANsense analyser, that monitors physical changes through TCP/IP and updates the database to provide real-time and 100% reliable and accurate physical infrastructure automation documentation. In addition, the LANsense reports are customisable and can be configured by the user as needed.



The LANsense floor planner is an interactive tool for finding physical assets or equipment on a floor plan. The floor planner can use data centres or small computer rooms or floor plans of buildings to display the information of available U space in the rack/cabinet and the total power usage of the cabinet.

The LANsense software provides a quick, simplified overview of the state of the network; When unscheduled activities and events occur, the software immediately notifies users by E-mail and maintains logs of various events and activities that are useful for monitoring and auditing purposes.

Updates the graphical view of the cabling infrastructure in the data centre and equipment room in a real time, for example:

- Cabinet/rack
- Network switch
- LANsense patch panel
- Connection Information of patch cord
- Real-time switch port and connection information

LANsense provides real-time device and switch port tracking information:

- Information about the location of physical infrastructure, such as:The terminal block, rack/cabinet, terminal block, Network equipment, server, terminal device

LANsense comes with a predefined set of useful reports that can be generated in the following locations:

- Location
- Connectivity
- Worksheet
- Logs

The LANsense workorder module is used to maintain and manage the network, providing:

- History of workorders and reports

These solutions can be used with different hardware products to provide professionally customised solutions for data centres, enterprises, or small and medium-sized enterprises with branch networks.

Product List

Nexans ref.	Description
NLS3.ENPACK5	LANsense TGA Software enterprise package license for 5 years
NLS3.USERPRT	LANsense TGA software single port license for 5 years

Industrial Ethernet/Maritime Solution

DIN-Rail Mount

Installation

- For 35mm DIN-Rail tracks
- Installed in protective cabinet or box
- Protection level: IP20

Features

- DIN-Rail mounted outlets with automatic grounding
- With identification system
- Several modules can line up on a DIN-Rail track
- 360° fully screened connector with metal tail cover
- IDC termination mode
- Termination without without LSA+tools
- Performance rating: Cat6/Cat6A/Cat7A

Reference Standards

- ISO/IEC 11801

LANmark Industry

Product List

Aginode ref.	Description
N42i.101	LANmark Industry DIN-Rail box, support 6 Snap-In connectors
N20i.000	LANmark Industry DIN-Rail include 1 LANmark-6 screened connector
N20i.004	LANmark Industry DIN-Rail include 1 LANmark-6A screened connector
N20i.005	LANmark Industry DIN-Rail include 1 LANmark-7A screened connector
N20i.002	LANmark Industry DIN-Rail Side Plate Cat6/6A
N20i.003	LANmark Industry DIN-Rail Side Plate Cat7A

IP65/67 Outlet Kit

Installation

- IP67 information export with 2 Cat6 screened modules
- Designed for wall mounting
- Installed in industrial or exposed areas
- Protection class: IP65/67

Features

- Easy termination, without punch down tool
- Cables running vertically through the interior of the equipment
- For two modules and two cables
- Waterproof and dustproof identification system on the surface
- 360° fully screened module with metal tail cover
- IDC termination mode
- Termination without without LSA+tools
- IEC 61073-3
- Quick termination

Reference Standards

- ISO/IEC 11801

LANmark Industry

Product List

Aginode ref.	Description
N42i.001	LANmark Industry Panel include 2 Snap-In LANmark-6 Connector
N42i.002	LANmark Industry Panel include 2 Snap-In LANmark-6A Connector
N42i.003	LANmark Industry Panel include 2 Snap-In LANmark-7A Connector

Outdoor Copper Cable

Application

Aginode provides outdoor Cat6 copper data cables that meet and exceed the performance requirements for Cat6 cables over Gigabit Ethernet with a tested bandwidth of 250MHz. The central C3 cross member reduces stress and twisting damage, and can be easily cut without special tools. Since the performance of transmission channels will be affected by construction and installation and the addition of relay connectors in practical applications, Aginode Category 6 copper data cables provide additional performance allowance to reduce the impact of these factors on the transmission channels to ensure efficient applications such as Gigabit Ethernet. In order to strengthen the waterproof performance of the cable, oil filled cable is adopted with black PE jacket, which provides better UV resistance performance for the cable.

- 10Base-T Ethernet
- 100Base-TX Fast Ethernet
- 1000Base-TX Gigabit Ethernet
- 155 M bit ATM
- 622 MBit ATM
- 1.2 Gbit ATM
- Other applications that Class E needs to support

Reference Standards

- EN 50288
- IEC 61156-5
- ISO/IEC 11801
- TIA/EIA-568-C.2

Product List

Aginode ref.	Description
N100.265PE	Cat6 Unscreened PE Oil Filled Outdoor Cable, 500m, Black

LANmark Industry Copper Cable

Application

Aginode LANmark industrial copper cable has a full shielded structure. This shielded structure with copper wire braided net and aluminum strip reduces the electromagnetic interference caused by the surrounding environment on the cable to the greatest extent. The copper cable is equipped with PUR jacket materials of special properties, has excellent wear resistance and oil resistance, as well as resistance to acid, alkali and other corrosive liquids. The copper cable is designed to be applied in harsh industrial environment.

- Excellent electrical transmission performance
- Special PUR jacket materials
- For harsh industrial environment
- Cat5e, Cat6, Cat7 available

LANmark Industry

Reference Standards

- ISO/IEC 11801
- IEC 61156
- TIA568C.2

Product List

Aginode ref.	Description
N10i.005-OCKF	LANmark Industry S/FTP AWG23 Cat6A LSZH Cca Orange + PE Fca Black 500m/reel
N10i.005-ODKF	LANmark Industry S/FTP AWG23 Cat6A LSZH Dca Orange + PE Fca Black 500m/reel
N10i.002	LANmark Industry S/FTP AWG23 Cat7A PUR Black 500m/reel

LANmark Industry Patch Cord RJ45 IP67/IP20

Application

- Patch Cord is designed to be used together with the Aginode IP65/67 outlet
- Installed in industrial or exposed areas
- Suitable for occasions with requirements for IP level
- Protection class:
  1. One IP67 and the other IP20
  2. Both are IP65

LANmark Industry

Features

- Screened cable
- Screened plug

Reference Standards

- ISO/IEC 11801

Product List

Aginode ref.	Description
N10i.E34DJ	LANmark Industry Patch Cord RJ45 IP67/IP20 Cat6 Screened PVC 1.5m, Yellow
N10i.E34FJ	LANmark Industry Patch Cord RJ45 IP67/IP20 Cat6 Screened PVC 3m, Yellow
N10i.E34HJ	LANmark Industry Patch Cord RJ45 IP67/IP20 Cat6 Screened PVC 5m, Yellow
N10i.E34OJ	LANmark Industry Patch Cord RJ45 IP67/IP20 Cat6 Screened PVC 10m, Yellow
N10i.E44EJ	LANmark Industry Patch Cord RJ45 IP65/IP65 Cat6 Screened PVC 2m, Yellow

LANmark Industry Fibre Cable

Application

The Aginode LANmark-OF Fibre cable is designed to be applied in harsh industrial environment.

- Excellent optical transmission performance
- Special PUR jacket materials
- For harsh industrial environment
- Multiple modes available

LANmark Industry

Reference Standards

- ISO/IEC 11801
- ISO/IEC 24702
- IEC 60794

Product List

Aginode ref.	Description
N165.922	LANmark Industry TBX 6x Multimode 50/125 OM3 PUR, Black

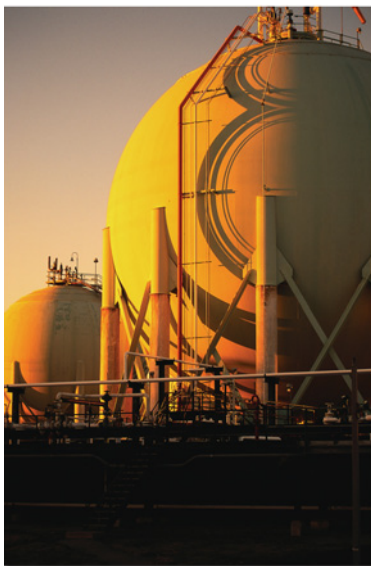
LANmark Maritime / LANmark Oil&Gas

The LANmark Maritime and LANmark Oil&Gas products are specifically developed for environments such as ships and oil exploration platforms. LANmark products support LAN communications for offices, control areas, accommodation quarter, drilling, production and other industrial areas through high-performance copper cables and Fibre cables.

LANmark series cabling products can support Gigabit Ethernet and 10G Ethernet, and also can support applications such as CATV, voice and VoIP. These products can also support all kinds of industrial Ethernet and field bus.

The LANmark cabling system has passed the test of independent laboratory and can satisfy the following requirements:

- Electrical performance test
- Fire testing
- Maritime certification
- SHF1
- DNV certification



Product List

Aginode ref.	Description
N100.376	LANmark-7 S/FTP AWG23 Cat7 LSZH Lloyds Blue 500m/Reel
N42m.730	LANmark Maritime GG45 Marine Snap-In Cat7 Screened Connector
N52m.664	LANmark Maritime Patch Cord Frame 24 Snap-In

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