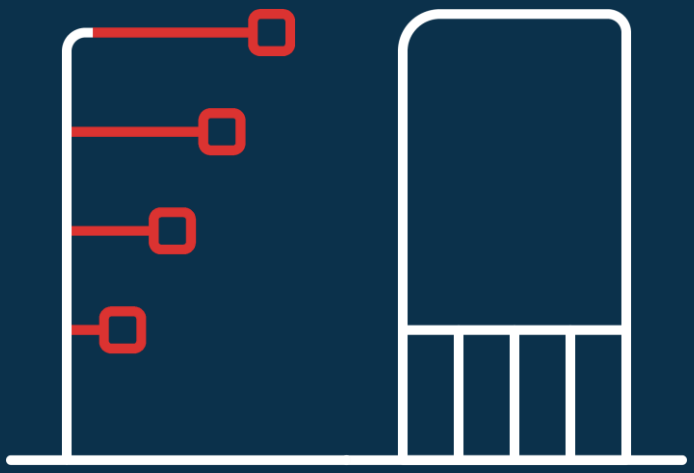
Data Networks

Copper LAN Systems Catalogue - January 2023



#smartconnection

Nexans

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Three steps to empower your enterprise

To meet explosive growth in demand for bandwidth and functionalities, and ensure cabling, connectivity and networks hold up in an increasingly demanding environment, a digital transformation is needed.

Nexans' three-step approach makes it easier to find a solution, as there's no 'one size fits all' answer.

1) People & devices - data & power for the converged office

When selecting a cabling system, you need to consider the people and devices that need to be supported. Emerging standards are driving increased bandwidth and power over the network - especially with growth of new WiFi technologies. You may need to plan higher spec cabling in the ceiling to support WAP's.

2) Building conditions - the specific issues for your buildings?

Which distances need to be bridged? Are there specific requirements with regard to functionality or uptime? The following all have an impact on the most suitable choice for the network:

- Limited space for cabling
- Distance and reach required
- Harsh conditions – cold / wet / EMI levels
- Fire performance & security needs

3) Network flexibility – managing your digital foundation

How flexible does your network need to be to accommodate probable future requirements? How do you ensure this is the case?

Planning the right network that can adapt with your changing business needs has a direct impact of the total cost of ownership. Different options may be more appropriate for different requirements:

- Planning redundancy and capacity for planned growth
- Ease of network management & administration
- Consequence of network downtime
- Lowering carbon footprint and energy management

Nexans has a complete range of solutions to help you make the Smart Choices for your specific requirements …

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Nexans smart choices

Nexans' range of practical solutions offers the right performance for every business and environment. These exceed the requirements of all relevant standards, ensuring your network performs better and more reliably. Our expertise and far-reaching involvement in the development of standards means we always find the right solution.

Determining current and future requirements results in faster, more efficient roll-outs, solutions that perform exactly as specified, optimised TCO, enhanced energy efficiency and systems that will remain in business for years to come.

LANmark

Flexible architectures for any environment

- Improved reliability and performance
- More ports, more connections, longer links, cost-effective bandwidth
- Perfect balance of copper and fibre for every application

LANsense

Protecting and optimising performance

- Automated Infrastructure Management with intelligent management hardware and software
- Monitors and controls all connected equipment and manages changes
- Reduce operational costs and improve asset management, utilisation and deployment of new services

LANactive

Fibre To The Office (FTTO): the alternative LAN solution

- Vast savings on time, space and cost
- 'Pay-as-you-grow' concept allows expansion according to needs
- Copper and fibre combined for best performance, scalability and flexibility

Parameters driving solution choice	Copper Networks		Fibre Networks	Mobile Networks	Network Management	Switches	
	LAN	SPE	LAN & Telecom	FTTA/PTTA & Hybrid	AIM	FTTO/DICE	Industry
	LANmark	SMARTCONVERGE	LANmark	UPSKY & LANmark	LANsense	LANactive	
People & Devices							
Fire Performance	●●	●	FLOWGUARD	n/a	n/a	n/a	n/a
Network Security	SECURELOCK	●	SECURELOCK	●	●●	●●●	●●●
Devices	●●	●●●	●●		●●	●●●	●●●
Bandwidth	●●	●	●●●	●●●	n/a	●●	●●
Power	●●	●●	n/a	●●●	n/a	●●●	●●●
WiFi	●●	n/a	●	n/a	n/a	DICE	●●
5G	●	n/a	●●	●●●	n/a	n/a	n/a
Installation Environment							
Extended Distances	●	●●	●●●	●●●	n/a	●●●	●●●
Internal networks	●●	●●	●●	●	n/a	●●●	n/a
Outside networks	●	●	●●●	●●●	n/a	●	●●●
Harsh Environments (workshops)	LANmark Industry	●	●●	●	n/a	●	●●●
Network Flexibility							
Automated Documentation	n/a	n/a	n/a	n/a	●●●	n/a	n/a
Network Management	n/a	n/a	n/a	n/a	●●●	●●●	●●●
Redundancy	●	n/a	●●	n/a	n/a	●●●	●●●
Future alterations and BIoT	●●	●●●	●●	n/a	●●●	●●	●●

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LANmark-6 U/UTP Cable

Contact
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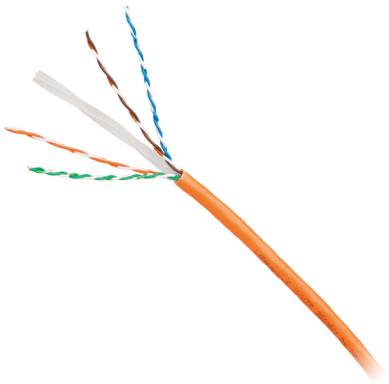
- Comply with all Category 6 cable standards
- Support Class E applications
- Central cross member maintains geometry and performance
- Tested up to 350MHz



LANmark-6

DESCRIPTION

Application

Nexans LANmark-6 cables are the ideal solution for most of today's network requirements in normal office environments. They are manufactured and tested to the latest Category 6 specifications defined in the International and American cable standards and are designed to meet the quality and performance criteria needed to support all applications up to 250 MHz.

- 10baseT Ethernet
- 100baseTX Fast Ethernet
- 1000baseTX Gigabit Ethernet
- 155 MBit ATM
- 622 MBit ATM
- 1.2 Gbit ATM
- Future class E applications

Design

The LANmark-6 U/UTP cables have a central cross element which helps maintaining the stability of the cable geometry and reduces the risk of a reduction in performance when bending the cable.
The cables are available with a Dark Grey PVC or an Orange LSZH sheath. Both versions have flame retardant properties compliant with IEC 60332-1 and are compliant with EuroClass Eca according to EN50575:2014 +A1:2016.

EuroClass Dca and Cca versions are also available.

Performance

Tested to 350 MHz and with guaranteed performance to 250 MHz, Nexans LANmark-6 cables exceed the requirements of the International, European and American cable standards, including ISO/IEC 11801, IEC 61156-5, EN 50173, EN 50288 and TIA/EIA 568-C.2.

Installation

To support the correct set-up of hand held analysers for installation testing, the actual cable NVP value is given in the cable's print legend.

Guarantees

The LANmark-6 cable performance is guaranteed to meet or exceed the requirements of the above mentioned standards.

STANDARDS

International EN 50173-1; EN 50288; IEC 61156-5; ISO/IEC 11801

National ANSI/TIA-568-C.2

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Nexans

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Traceability codes on both cable and packaging ensure quality validation of the installed cable.

Installations with LANmark-6 cable and connectivity are qualified for a 25 year full system warranty, which includes Parts, Channel Performance, Application Support and Labour, as described in the Nexans Certified System Warranty.

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PRODUCT LIST

Nexans Ref.	Country Ref.	Name	Outer sheath	Colour	Packaging
N100.617-DE	-	LANmark-6 U/UTP AWG23 Cat 6 350MHz PVC Eca Grey 305m box	PVC	Grey	Box
N100.607-OE	-	LANmark-6 U/UTP AWG23 Cat 6 350MHz LSZH Eca Orange 305m box	LSZH	Orange	Box
N100.605-OE	-	LANmark-6 U/UTP AWG23 Cat 6 350MHz LSZH Eca Orange 500m reel	LSZH	Orange	Reel
N100.605-OD	-	LANmark-6 U/UTP AWG23 Cat 6 350MHz LSZH Dca s2 d2 a1 Orange 500m reel	LSZH	Orange	Reel
N100.605-OC	-	LANmark-6 U/UTP AWG23 Cat 6 350MHz LSZH Cca s1a d1 a1 Orange 500m reel	LSZH	Orange	Reel
N100.614-DE	-	LANmark-6 U/UTP AWG23 Cat 6 350MHz PVC Eca Grey 305m reel in box	PVC	Grey	Reel in a box
N100.604-OE	-	LANmark-6 U/UTP AWG23 Cat 6 350MHz LSZH Eca Orange 305m reel in box	LSZH	Orange	Reel in a box
N100.607-OC	-	LANmark-6 U/UTP AWG23 Cat 6 350MHz LSZH Cca s1a d1 a1 Orange 305m box	LSZH	Orange	Box

= Make to order, = In stock,

ELECTRICAL PERFORMANCE LANMARK-6 U/UTP CABLE

	IL		NEXT		PSNEXT		ACR-F		PS ACR-F		RL	
Freq.	in Db/100m		in dB		in dB		in dB		in dB		in dB	
in MHz	Max.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.
1	2,0	2,0	74,3	80,3	72,3	78,3	67,8	72,8	64,8	69,8	20,0	22,0
4	3,8	3,8	65,3	71,3	63,3	69,3	55,8	60,8	52,8	57,8	23,0	25,0
10	6,0	6,0	59,3	65,3	57,3	63,3	47,8	52,8	44,8	49,8	25,0	27,0
16	7,6	7,6	56,2	62,2	54,2	60,2	43,7	48,7	40,7	45,7	25,0	27,0
20	8,5	8,5	54,8	60,8	52,8	58,8	41,8	46,8	38,8	43,8	25,0	27,0
31,25	10,7	10,7	51,9	57,9	49,9	55,9	37,9	42,9	34,9	39,9	23,6	25,6
62,5	15,4	15,4	47,4	53,4	45,4	51,4	31,9	36,9	28,9	33,9	21,5	23,5
100	19,8	19,8	44,3	50,3	42,3	48,3	27,8	32,8	24,8	29,8	20,1	22,1
155	25,2	25,2	41,4	47,4	39,4	45,4	24,0	29,0	21,0	26,0	18,8	20,8
200	29,0	29,0	39,8	45,8	37,8	43,8	21,8	26,8	18,8	23,8	18,0	20,0
250	32,8	32,8	38,3	44,3	36,3	42,3	19,8	24,8	16,8	21,8	17,3	19,3
300	-	36,4	-	43,1	-	41,1	-	23,3	-	20,3	-	18,8
350	-	39,8	-	42,1	-	40,1	-	21,9	-	18,9	-	18,3

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LANmark-6 Shielded Cable

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- F1/UTP and F2/UTP constructions
- Comply with all Category 6 cable standards
- Support Class E applications
- Central cross member maintains geometry and performance
- Tested up to 350MHz
- Orange LSZH sheath

LANmark-6

DESCRIPTION

Application

Nexans LANmark-6 cables are the ideal solution for most of today's network requirements in normal office environments. They are manufactured and tested to the latest Category 6 specifications defined in the International and American cable standards and are designed to meet the quality and performance criteria needed to support all applications up to 250 MHz.

- 10baseT Ethernet
- 100baseTX Fast Ethernet
- 1000baseTX Gigabit Ethernet
- 155 MBit ATM
- 622 MBit ATM
- 1.2 Gbit ATM
- Future class E applications

Design

The LANmark-6 shielded cables have AWG 24 solid copper wires and comply with IEC 60228.
The PE central cross filler helps maintaining the stability of the cable geometry and reduces the risk of a reduction in performance when bending the cable.
The cables come standard with an Orange LSZH sheath.

Performance

Tested to 350 MHz and with guaranteed performance to 250 MHz, Nexans LANmark-6 cables exceed the requirements of the International, European and American cable standards, including ISO/IEC 11801, IEC 61156-5, EN 50173, EN 50288 and TIA/EIA 568-C.2.

Installation

To support the correct set-up of hand held analysers for installation testing, the actual cable NVP value is given in the cable's print legend.

Guarantees

The LANmark-6 cable performance is guaranteed to meet or exceed the requirements of the above mentioned standards.

STANDARDS

International EN 50288; IEC 61156-5; ISO/IEC 11801

National ANSI/TIA-568-C.2

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Traceability codes on both cable and packaging ensure quality validation of the installed cable.

Installations with LANmark-6 cable and connectivity are qualified for a 25 year full system warranty, which includes Parts, Channel Performance, Application Support and Labour, as described in the Nexans Certified System Warranty.

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Contact
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CHARACTERISTICS

Construction characteristics	
Type of cable	F/UTP
Outer sheath	LSZH

PRODUCT LIST

	Nexans Ref.	Country Ref.	Name
🖧	N100.622-OD	-	LANmark-6 F1/UTP AWG24 Cat 6 350MHz LSZH Dca s2 d1 a1 Orange 1000m reel
🖧	N100.624-OD	-	LANmark-6 F1/UTP AWG24 Cat 6 350MHz LSZH Dca s2 d1 a1 Orange 500m reel

📞 = Make to order, 🖧 = In stock,

ELECTRICAL PERFORMANCE LANMARK-6 SHIELDED CABLE

	IL		NEXT		PSNEXT		ACR-F		PS ACR-F		RL	
Freq.	in Db/100m		in dB		in dB		in dB		in dB		in dB	
in MHz	Max.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.
1	2,0	2,0	74,3	80,3	72,3	78,3	67,8	72,8	64,8	69,8	20,0	22,0
4	3,8	3,8	65,3	71,3	63,3	69,3	55,8	60,8	52,8	57,8	23,0	25,0
10	6,0	6,0	59,3	65,3	57,3	63,3	47,8	52,8	44,8	49,8	25,0	27,0
16	7,6	7,6	56,2	62,2	54,2	60,2	43,7	48,7	40,7	45,7	25,0	27,0
20	8,5	8,5	54,8	60,8	52,8	58,8	41,8	46,8	38,8	43,8	25,0	27,0
31,25	10,7	10,7	51,9	57,9	49,9	55,9	37,9	42,9	34,9	39,9	23,6	25,6
62,5	15,4	15,4	47,4	53,4	45,4	51,4	31,9	36,9	28,9	33,9	21,5	23,5
100	19,8	19,8	44,3	50,3	42,3	48,3	27,8	32,8	24,8	29,8	20,1	22,1
155	25,2	25,2	41,4	47,4	39,4	45,4	24,0	29,0	21,0	26,0	18,8	20,8
200	29,0	29,0	39,8	45,8	37,8	43,8	21,8	26,8	18,8	23,8	18,0	20,0
250	32,8	32,8	38,3	44,3	36,3	42,3	19,8	24,8	16,8	21,8	17,3	19,3
300	-	36,4	-	43,1	-	41,1	-	23,3	-	20,3	-	18,8
350	-	39,8	-	42,1	-	40,1	-	21,9	-	18,9	-	18,3

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LANmark-6A Cable

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- Ideal cable for 10GBase-T application
- Full compliance to latest standards for Category 6A and Class EA
- Guaranteed performance up to 500MHz
- Global or individual pair shielding offering Alien Crosstalk immunity

LANmark-6A

DESCRIPTION

Application

LANmark-6A cables are the ideal solution for a 10G Ethernet network. The range has been designed specifically to support the higher frequencies required for 10 Gigabit Ethernet, while maintaining full backwards compatibility with today's needs. All LANmark-6A cables are shielded, in order to ensure immunity to Alien Crosstalk and other external interferences.

- 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
- future Cat 6A and Class EA applications

Performance

With guaranteed performance to 500MHz, Nexans LANmark-6A cables exceed the requirements of the International, European and American cable standards, including ISO/IEC 11801, IEC 61156-5, EN 50173, EN 50288 and TIA/EIA 568-C.2.

When used in combination with Nexans LANmark-6A Evo connectors and LANmark-6A Ultim patch cords, the system supports the 10GBase-T applications as defined in IEEE 802.3an and meets or exceeds the link and channel requirements for Category 6A and Class EA as defined in TIA/EIA 568-C.2 and ISO/IEC 11801.

Installation

The LANmark-6A cables have the advantage of offering equal dimensions and flexibility as the equivalent LANmark-6 screened cables with the same ease of installation and termination.

To support the correct set-up of hand held analysers for installation testing, the actual cable NVP value is given in the cable's print legend.

Guarantees

Traceability codes on both cable and packaging ensure quality validation of the installed cable.

Installations with LANmark-6A cable and connectivity are qualified for a 25 year full system warranty, which includes Parts, Channel Performance, Application Support and Labour, as described in the Nexans Certified System Warranty.

STANDARDS

International EN 50173-1; EN 50288-4-1; IEC 61156-5; IEEE 802.3bt (PoE++); ISO/IEC 11801

National ANSI/TIA-568-C.2

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CHARACTERISTICS

Construction characteristics	
Outer sheath	LSZH

PRODUCT LIST

Nexans Ref.	Country Ref.	Name	Type of cable
N100.622G-OD	-	LANmark-6A F1/UTP AWG23 Cat 6A LSZH Dca s2 d1 a1 Orange 1000m reel	F/UTP
N100.624G-OD	-	LANmark-6A F1/UTP AWG23 Cat 6A LSZH Dca s2 d1 a1 Orange 500m reel	F/UTP
N100.692G-OD	-	LANmark-6A F/FTP AWG23 Cat 6A LSZH Dca s2 d1 a1 Orange 1000m reel	F/FTP
N100.694G-OD	-	LANmark-6A F/FTP AWG23 Cat 6A LSZH Dca s2 d1 a1 Orange 500m reel	F/FTP
N100.623G-OD	-	LANmark-6A F1/UTP Dual AWG23 Cat 6A LSZH Dca s2 d2 a1 Orange 500m reel	F/UTP
N100.693G-OD	-	LANmark-6A F/FTP Dual AWG23 Cat 6A LSZH Dca s2 d1 a1 Orange 500m reel	F/FTP
N100.694G-OC	-	LANmark-6A F/FTP AWG23 Cat 6A LSZH Cca s1a d1 a1 Orange 500m reel	F/FTP
N100.622G-OC	-	LANmark-6A F1/UTP AWG23 Cat 6A LSZH Cca s1a d1 a1 Orange 1000m reel	F/UTP

= Make to order, = In stock,

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LANmark-7A Cable

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- High Quality Data Cables for simultaneous use with POE+ and POE++
- All Cable exceed Category 7A in terms of ACR and Frequency Range
- Superior Performance with positive ACR over the full frequency range
- Optimised for use with LANmark-7A GG45 connector
- Easy to install with GG45 connectivity through special foil construction

LANmark-7A

DESCRIPTION

Description

LANmark-7A are 4 pair S/FTP cables with individual pair foils and an overall braid offering upper frequencies of at least 1250MHz but up to 1600MHz. All cables are fully compliant with Category 7A standard and offer even large headroom above the Cat 7A requirement. Due to this excellent electrical performance and positive ACR all cables supports applications beyond 10GBASE-T, including 25GBASE-T.

Application

LANmark-7A is the highest performing standardised cabling solution in the enterprise market and will support all current data applications and all planned applications using cabling up to Class FA.

- All Ethernet applications including
- 10/100/1000Base-T
- 1000Base-TX
- 10GBase-T
- 25GBase-T up to 30m
- POE, POE+, POE++ (Draft)
- Cable sharing applications including CATV up to 862MHz
- Any future Class FA application

Installation

Ease of Installation is one of the main features of the LANmark-7A cable. Extra attention has been paid to ensure that the screen coverage is maintained and foils do not open during installation. The cable has been specially designed to be used in conjunction with the LANmark-7A GG45 12C connector.

To support the correct set-up of hand held analysers for installation testing, the actual cable NVP value is given in the cable's print legend.

STANDARDS

International EN 50173; EN 50288-4-1; IEEE 802.3bt (PoE++); ISO/IEC 11801; ISO/IEC 61156-5

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PRODUCT LIST

Nexans Ref.	Country Ref.	Name	Type of cable	Conductor cross-section (AWG/KCMIL)
N100.371-OD	-	LANmark-7A 1250 S/FTP AWG23 Cat 7A 1250MHz LSZH Dca s2 d1 a1 Orange 1000m reel	S/FTP	23
N100.372-OD	-	LANmark-7A 1250 S/FTP AWG23 Cat 7A 1250MHz LSZH Dca s2 d1 a1 Orange 500m reel	S/FTP	23
N100.381-OD	-	LANmark-7A 1600 S/FTP AWG22 Cat 7A 1600MHz LSZH Dca s2 d1 a1 Orange 1000m reel	S/FTP	22
N100.373-OD	-	LANmark-7A 1250 S/FTP Dual AWG23 Cat 7A 1250MHz LSZH Dca s2 d1 a1 Orange 500m reel	S/FTP Shotgun	23
N100.383-OD	-	LANmark-7A 1600 S/FTP Dual AWG22 Cat 7A 1600MHz LSZH Dca s2 d1 a1 Orange 500m reel	S/FTP Shotgun	22
N100.371-OC	-	LANmark-7A 1250 S/FTP AWG23 Cat 7A 1250MHz LSZH Cca s1a d1 a1 Orange 1000m reel	S/FTP	23
N100.371-OB	-	LANmark-7A 1250 S/FTP AWG23 Cat 7A 1250MHz LSZH B2ca s1a d1 a1 Orange 1000m reel	S/FTP	23
N100.381-OB	-	LANmark-7A 1600 S/FTP AWG22 Cat 7A 1600MHz LSZH B2ca s1a d1 a1 Orange 1000m reel	S/FTP	22

= Make to order, = In stock,

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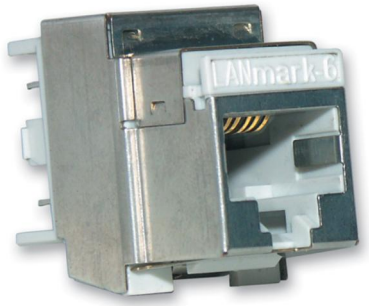
LANmark-6 Snap-In Connector

Contact
Enquiries
Phone: +32 2 3633 800
datanetworks.info@nexans.com

- Category 6 Snap-In connector
- Available in unshielded and shielded version
- Fast and easy termination without punch down tool
- Wiring according to colour code T568B or T568A
- Reterminable
- Stranded version available for consolidation points
- Supports POE Plus applications (15 Watts per pair)
- An adapter can be added to fit the keystone format



LANmark-6

DESCRIPTION

Application

Nexans LANmark-6 Evo Snap-In connectors are manufactured and tested to the latest Category 6 specifications defined in the International and American cabling standards and are designed to meet or exceed the quality and performance criteria needed to support all applications up to 250 MHz.

- 10 BASE-T Ethernet
- 100 BASE-T Fast Ethernet
- 1000 BASE-T Gigabit Ethernet
- 155 Mb ATM
- 622 Mb ATM
- 1.2 Gb ATM
- POE Plus (including IEC 60512-9-3 and IEC 60512-99-001)
- Future Class E applications

Design

Nexans LANmark-6 Evo Snap-In connectors are designed to match with LANmark-6 cable and patch cords and to complement all LANmark modular components, such as:

- Snap-In patch panels (fixed, sliding and angled) and Zone Distribution Boxes
- Snap-In outlet modules (UK, US, European and German style)

Performance

Nexans LANmark-6 Evo Snap-In connectors meet or exceed the requirements for Category 6 connecting hardware as described in ISO/IEC 11801, IEC 60603-7 and EIA/TIA 568-C.2.

Installation

The wire organiser guarantees fast and easy termination of the LANmark-6 Evo Snap-In connector without the need for a punchdown tool. An optional comfort tool (N420.567) can be used to increase the ease of installation.
A stranded version is available for CP to TO links.

Guarantees

The LANmark-6 Evo Snap-In performance is guaranteed to meet or exceed the requirements of the above mentioned standards.

STANDARDS

International IEC 60603-7-4;
IEC 60603-7-5;
IEEE 802.3af (PoE);
IEEE 802.3at (PoE+); ISO/
IEC 11801

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datanetworks.info@nexans.com

Traceability codes on both connector and packaging ensure quality validation.

Installations with LANmark-6 cable and connectivity are qualified for a 25 year full system warranty, which includes Parts, Installation, Channel Performance and Application Support, as described in the Nexans Certified System Warranty.

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Contact
Enquiries
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datanetworks.info@nexans.com

CHARACTERISTICS

Construction characteristics

Colour	Light grey

PRODUCT LIST

Nexans Ref.	Country Ref.	Name	Screen
N420.660	-	LANmark-6 Evo Snap-In Connector Category 6 Unscreened	No
N420.661	-	LANmark-6 Evo Snap-In Connector Category 6 Unscreened Stranded Wire	No
N420.666	-	LANmark-6 Evo Snap-In Connector Category 6 Screened	Yes
N420.667	-	LANmark-6 Evo Snap-In Connector Category 6 Screened Stranded Wire	Yes
N420.660-ECO24	-	LANmark-6 Evo Snap-In Connector Category 6 Unscreened Eco-24	No

= Make to order, = In stock,

ELECTRICAL PERFORMANCE

Frequency MHz	Attenuation	NEXT pp	PSNEXT	FEXT pp	PSFEXT	RL
1	0,1	94,0	90,0	83,1	80,1	30,0
4	0,1	82,0	78,0	71,1	68,1	30,0
10	0,1	74,0	70,0	63,1	60,1	30,0
16	0,1	69,9	65,9	59,0	56,0	30,0
20	0,1	68,0	64,0	57,1	54,1	30,0
31,25	0,1	64,1	60,1	53,2	50,2	30,0
62,5	0,2	58,1	54,1	47,2	44,2	28,1
100	0,2	54,0	50,0	43,1	40,1	24,0
125	0,2	52,1	48,1	41,2	38,2	22,1
155	0,2	50,2	46,2	39,3	36,3	20,2
175	0,3	49,1	45,1	38,2	35,2	19,1
200	0,3	48,0	44,0	37,1	34,1	18,0
250	0,3	46,0	42,0	35,1	32,1	16,0

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datanetworks.info@nexans.com

MECHANICAL AND ELECTRICAL CHARACTERISTICS

Contact resistance:	max. 20 m Ohm
Input to output DC resistance:	max. 200 m Ohm
Insulation resistance:	min. 500 M Ohm
Voltage proof:	1000 V DC or AC peak, contact to contact.
Mating cycles:	min. 750
Insertion cycles:	min. 20

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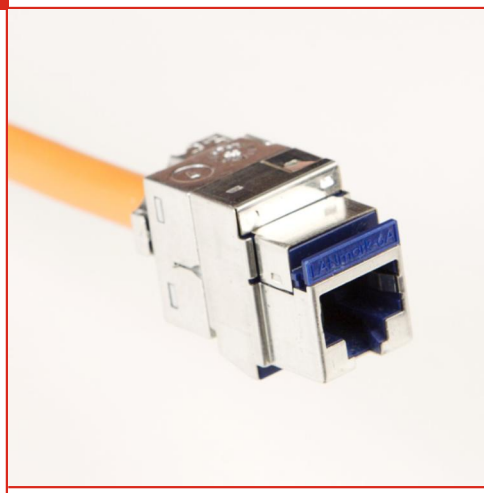
LANmark-6A Snap-In Connector

Contact
Enquiries
Phone: +32 2 3633 800
datanetworks.info@nexans.com



- High bandwidth RJ45 connector supporting 10 Gigabit Ethernet
- Fully compliant with TIA and ISO Category 6A cabling and connector standards
- Supports very short Category 6A channel configurations, often required in Data Centres
- 360° shielding offering full Alien Crosstalk immunity
- Fast and easy termination without punch down tool
- Wiring according to colour code T568B or T568A
- Reterminable
- Stranded version available for CP to TO links
- Supports PoE++ Type 4 applications delivering up to 90W/71W (IEEE 802.3bt)
- An adapter can be added to fit the keystone format

DESCRIPTION

Application

Nexans LANmark-6A Evo Snap-In Connectors are manufactured and tested to the latest Category 6A specifications defined in the International and American cabling standards and are designed to meet or exceed the stringent quality and performance criteria needed to support all applications up to 500 MHz, including 10 Gigabit Ethernet.
A fully closed metal rear cover providing 360 degrees shielding offers excellent coupling attenuation and ensures immunity from Alien Crosstalk and other external interferences.
Channels built with LANmark-6A cables and jacks do not need on site testing for Alien Crosstalk, as this parameter is met by design. This significantly reduces the installation cost for 10G network cabling.

- 10 BASE-T Ethernet
- 100 BASE-T Fast Ethernet
- 1000 BASE-T Gigabit Ethernet
- 10G BASE-T Gigabit Ethernet IEEE 802.3
- 155 Mbit ATM
- 1.2 Gbit ATM
- PoE++ Type 4 (IEEE 802.3bt) including IEC 60512-9-3/ed.2 (test 9c) and IEC 60512-99-002/ed.1 draft (test 99b)
- Future Cat 6A and Class EA applications

Design

Nexans LANmark-6A Evo Snap-In connectors are designed to match with LANmark-6A cable and patch cords and to complement all LANmark modular components, such as:

- Snap-In patch panels (fixed, sliding and angled) and Zone Distribution Boxes
- Snap-In outlet modules (UK, US, European and German style)

Performance

LANmark-6A

STANDARDS

International EN 50173-1; IEC 60603-7-51; IEEE 802.3af (PoE); IEEE 802.3bt (PoE++); IEEE 802.3at (PoE+); ISO/IEC 11801:2002/Amd 1:2008/Cor 1:2008; ISO/IEC 24764; ISO/IEC 11801:2002/Amd 2:2010/Cor 1:2010

National ANSI/TIA-568-C.2

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Contact
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Nexans LANmark-6A Evo connectors meet or exceed the requirements for Category 6A connecting hardware as described in ISO/IEC 11801, IEC 60603-7-51 and EIA/TIA 568-C.2.
In conjunction with LANmark-6A cable they support all 2, 3 and 4 connector models as specified in these standards, as well as very short link and channel configurations which are increasingly required in Data Centre environments.

Installation

The wire organiser guarantees fast and easy termination of the LANmark-6A Evo Snap-In connector without the need for a punchdown tool. An optional comfort tool (N420.567) can be used to increase the ease of installation.
A stranded version is available for CP to TO links.

Guarantees

The LANmark-6A Evo Snap-In performance is guaranteed to meet or exceed the requirements of the above mentioned standards.

Traceability codes on both connector and packaging ensure quality validation.

Installations with LANmark-6A cable and connectivity are qualified for a 25 year full system warranty, which includes Parts, Installation, Channel Performance and Application Support, as described in the Nexans Certified System Warranty.

PRODUCT LIST

Nexans Ref.	Country Ref.	Name
N420.66A	-	LANmark-6A Evo Snap-In Connector Category 6A 500MHz Screened
N420.67A	-	LANmark-6A Evo Snap-In Connector Category 6A 500MHz Screened for stranded wire
N420.66A-BULK100	-	LANmark-6A Evo Snap-In Connector Category 6A 500MHz Screened (bulk pack)
N420.66A-ECO24	-	LANmark-6A Evo Snap-In Connector Category 6A 500MHz Screened Eco-24

= Make to order, = In stock,

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Contact
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ELECTRICAL PERFORMANCE LANMARK-6A 4 CONNECTOR CHANNEL

NEXT in dB		PSNEXT in dB			ACR-F in dB	
Min	Typ	Std	Min	Typ	Std	Typ
67,0	85,0	62,0	64,0	74,8	63,3	69,9
65,0	72,9	60,5	62,5	65,0	51,2	57,9
58,6	65,0	54,0	56,0	58,5	43,3	49,9
55,2	60,9	50,6	52,6	55,1	39,2	45,9
53,6	59,0	49,0	51,0	53,5	37,2	43,9
50,4	55,1	45,7	47,7	50,2	33,4	40,0
45,4	49,1	40,6	42,6	45,1	27,3	34,0
41,9	45,0	37,1	39,1	41,6	23,3	29,9
38,7	41,2	33,8	35,8	38,3	19,5	26,1
36,8	39,0	31,9	33,9	36,4	17,2	23,9
35,1	37,0	30,2	32,2	34,7	15,3	22,0
33,7	35,4	28,8	30,8	33,3	13,7	20,4
29,9	31,0	24,8	26,8	24,9	9,3	16,0

Freq	PS ACR-F in dB		PS ANEXT in dB			PS AACR-F in dB			RL in dB		
in MHz	Std	Typ	Std	Min	Typ	Std	Min	Typ	Std	Min	Typ
1	60,3	66,9	80,0	90,0	92,0	77,0	92,0	94,0	19,0	21,0	21,0
4	48,2	54,9	74,0	89,0	91,0	65,0	80,0	82,0	19,0	21,0	32,0
10	40,3	46,9	70,0	85,0	87,0	57,0	72,0	74,0	19,0	21,0	28,0
16	36,2	42,9	68,0	83,0	85,0	52,9	67,9	69,9	18,0	20,0	26,0
20	34,2	40,9	67,0	82,0	84,0	51,0	66,0	68,0	17,5	19,5	25,0
31,25	30,4	37,0	65,1	80,1	82,1	47,1	62,1	64,1	16,5	18,5	23,1
62,5	24,3	31,0	62,0	77,0	79,0	41,1	56,1	58,1	14,0	16,0	20,0
100	20,3	26,9	60,0	75,0	77,0	37,0	52,0	54,0	12,0	14,0	18,0
155	16,5	23,1	57,1	72,1	74,1	33,2	48,2	50,2	10,1	12,1	16,1
200	14,2	20,9	55,5	70,5	72,5	31,0	46,0	48,0	9,0	11,0	15,0
250	12,3	19,0	54,0	69,0	71,0	29,0	44,0	46,0	8,0	10,0	14,0
300	10,7	17,4	52,8	67,8	69,8	27,5	42,5	44,5	7,2	9,2	13,2
500	6,3	13,0	49,5	64,5	66,5	23,0	38,0	40,0	6,0	8,0	11,0

All values are based on Worst Case 4 Connector Channel configurations according to ISO11801.
Minimum and maximum values represent guaranteed Channel performance.
Standard values based on ISO11801 Class EA

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LANmark-6A Field Terminable Plug

Contact
Enquiries
Phone: +32 2 3633 800
datanetworks.info@nexans.com

- Field installable Cat 6A plug for MPTL connections
- For solid wire cable AWG24-AWG23
- Accepts cable diameters from 6.0 to 8.5mm
- 360° shielding offering Alien Crosstalk immunity
- Easy termination without special tools
- Wiring according to colour code T568B
- Supports all Class EA applications
- Supports PoE applications

LANmark-6A

DESCRIPTION

Application

Nexans LANmark-6A Field Terminable Plug is designed to build Modular Plug Terminated Links (MPTL) as specified in the TIA 568-2.D standard.

In conjunction with LANmark-6A infrastructure cable and the LANmark-6A Snap-In connector configured in MPT links, the plug will support all Class EA applications , including 10GBase-T and Power over Ethernet up to 100W.

MPTL are increasingly being used for direct data connections between patch panels and network devices, such as Wireless Access Points and IP Cameras, which are usually located in or near the ceiling void and often powered over the network via PoE.

Design

The plug is fully shielded, offering excellent coupling attenuation and immunity from Alien Crosstalk and other external interferences.

The plastic snap-on boot with reinforced strain relief and closing nut has an integrated latch protector.

Performance

The LANmark-6A Field Terminable Plug meets or exceeds the requirements for Category 6A connecting hardware as described in ISO/IEC 11801, IEC 60603-7-51 and TIA 568.2-D. In conjunction with LANmark-6A cable, the plug supports MPTL configurations as specified in TIA 568.2-D.

Installation

The wire organiser ensures easy mounting of the LANmark-6A Field Terminable Plug without the need for a special termination tool, apart from a pair of parallel jaw pliers.

Detailed installation instructions are available on-line and are supplied with every box of 24 plugs.

Guarantees

Installations with LANmark-6A cable and connectivity including the LANmark-6A Field Terminable Plug can qualify for a 25 year full system warranty, which includes Parts, Installation, Channel Performance and Application Support, as described in the Nexans Certified System Warranty.

STANDARDS

International EN 50173-1;
IEC 60603-7-51;
IEEE 802.3af (PoE);
IEEE 802.3bt (PoE++);
IEEE 802.3at (PoE+); ISO/
IEC 11801

National ANSI/TIA 568.2-D

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LANmark-6A Field Terminable Plug

Contact
Enquiries
Phone: +32 2 3633 800
datanetworks.info@nexans.com

PRODUCT LIST

	Nexans Ref.	Country Ref.	Name
	N490.001	-	LANmark-6A Field Terminable Plug Category 6A Screened

= Make to order, = In stock,

All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Nexans is indicative only and shall not be binding on Nexans or be treated as constituting a representation on the part of Nexans.

LANmark-7A/-8 GG45 Connector

Contact
Enquiries
Phone: +32 2 3633 800
datanetworks.info@nexans.com

LANmark-7A/-8 GG45

- RJ45-compatible Cat 7A/Cat 8 connector using Nexans unique GG45 interface
- Specified up to 2 GHz
- Able to support applications beyond 10G, including 25GBase-T and 40GBase-T
- Cat7A / Class FA Channel compliance with Cat 7A Cable
- Cat 8 / Class I / II Channel compliance with Cat 8 Cable
- Supports PoE++ Type 4 applications delivering up to 90W/71W (IEEE 802.3bt)
- 360° shielding offering Alien Crosstalk immunity
- Version for solid wire from 22 to 24 AWG (N420.735)
- Version for stranded wire from 24 to 26 AWG (N420.736)
- Fits all Nexans LANmark Snap-In panels and mounting hardware
- An adapter can be added to fit the keystone format

DESCRIPTION

Design and application

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

- Combined with LANmark-7A cable, the GG45 connector supports 25GBase-T applications. (*)
- Combined with LANmark-8 cable, the GG45 connector supports 40GBase-T applications. (*)

(*) over 30m Channel lengths.

The LANmark GG45 connector features 12 contacts: 8 contacts for the 2000 MHz transmission (GG-mode) and 4 additional contacts to ensure RJ45 compatibility (RJ Mode).

An overall die-cast housing and a fully closed metal rear cover, providing 360 degrees shielding, offer excellent coupling attenuation and immunity to Alien Crosstalk and other external interferences.

LANmark GG45 connectivity, in conjunction with LANmark-7A cable, fully complies with the requirements for Category 7A / Class FA Channels as specified in ISO/IEC 11801 and EN 50173-1. In conjunction with LANmark-8 cable, the requirements for Class I/II Channels over max. 30m distance are met, as described in ISO 11801.

As such, LANmark-7A/8 Channels support all applications up to 1000 MHz and 2000 MHz respectively, providing at the same time backward compatibility with lower speed applications:

LANmark-7A

STANDARDS

International EN 50173-1;
IEC 60603-7-71 ;
IEEE 802.3af (PoE);
IEEE 802.3bt (PoE++);
IEEE 802.3at (PoE+); ISO/
IEC 11801

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Contact
Enquiries
Phone: +32 2 3633 800
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- 10Base-T Ethernet
- 100Base-TX Fast Ethernet
- 1000Base-TX Gigabit Ethernet
- 10GBase-T 10 Gigabit Ethernet IEEE 802.3
- 25GBase-T 25 Gigabit Ethernet IEEE 802.3bq
- 40GBase-T 40 Gigabit Ethernet IEEE 802.3bq
- 155 Mbit ATM
- 1.2 Gbit ATM
- POE Plus IEEE802.3at
- POE Plus IEEE802.3bt
- CATV up to 862MHz
- all future Cat 6A and Class EA applications
- all future Cat 7 and Class F applications
- all future Cat 7A and Class FA applications
- all future Cat 8 and Class I / II applications

Performance

LANmark GG45 meets the stringent requirements of Category 7A up to 1000 MHz and Category 8 up to 2000 MHz. The connector engine features a metal cross to keep the 4 pairs separated from each other, ensuring a significant reduction of internal and external crosstalk (NEXT/FEXT, Power Sum NEXT/FEXT and Alien Crosstalk) and optimising Signal to Noise Ratios.

Installation

The wire organiser which is specifically designed for terminating the GG45 connector allows for a smooth and reliable wiring. In addition, using the Nexans patented Easy Termination Tool (N422.117) ensures adequate and swift preparation of the shielded pairs of the cable and fool-proof installation.

The LANmark GG45 connector fits all structural hardware designed for LANmark Snap-In connectors and can be used in all positions of a 4 connector Channel (Patch Panel, Cross Connect, Consolidation Point, Outlet).

For CP and CC configurations the GG45 version for stranded wire cable (N420.736) should be used.

Guarantees

Channels built with LANmark GG45 connectivity and LANmark-7A or LANmark-8 cable qualify for a Class FA or Class I/II System warranty respectively, for a period of 25 years, including parts, installation, channel performance and application support.

For a Warranty certificate to be issued, the Warranty application process must be followed.

Traceability codes on both connector and packaging ensure quality validation.

All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Nexans is indicative only and shall not be binding on Nexans or be treated as constituting a representation on the part of Nexans.

Contact
Enquiries
Phone: +32 2 3633 800
datanetworks.info@nexans.com

PRODUCT LIST

	Nexans Ref.	Country Ref.	Name
	N420.735	-	LANmark GG45 Snap-In Connector Cat 7A/8 2000MHz Screened Solid Wire
	N420.736	-	LANmark GG45 Snap-In Connector Cat 7A/8 2000MHz Screened Stranded Wire

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Modular Patch Panels for Snap-In Connectors

Contact
Enquiries
Phone: +32 2 3633 800
datanetworks.info@nexans.com

- Compatible with all Snap-In connectors
- 24 ports
- Sliding and Fixed versions available
- Clip-On mechanism
- Exclusive Auto-Connect Earthing system
- Universal design supporting Unscreened and Screened connectors
- Shuttered versions available

LANmark

DESCRIPTION

Nexans Snap-In range of patch panels are designed to accomodate any of the Snap-In connectors in the LANmark product family (LANmark-7A, LANmark-6A, LANmark-6, and LANmark-5).

The Snap-In panels feature an exclusive Clip-On system to secure the connector in the panel and to provide a simple means of earthing shielded connectors to facilitate installation. Connection of the panel to earth is acheived with a unique Auto-Connect feature removing the need for individual bonding conductors.

The panels are Nexans branded and have a series of complementary cable management products such as blank panels and patch cord guides.

The patch panels are designed for standard 19" enclosures, are 1U high, and support the following common features:

- 24 Ports with shutters
- Designed for Screened and Unscreened Snap-In connectors
- Compatible with all perfomance categories of connector
- Clip-On mechanism for simple earthing
- Exclusive rear cable management facilities
- Robust construction

Nexans offers three main panel versions:

- Angled Panels or Panels with angled Connectors to support high density environments

- Sliding Panels to allow quick installation and easy maintenance which feature a flexible label for port numbering

- Fixed Panels using screen printed numbering systems for labelling

STANDARDS

International
Manufacturer specification

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Contact
Enquiries
Phone: +32 2 3633 800
datanetworks.info@nexans.com

PRODUCT LIST

	Nexans Ref.	Country Ref.	Name
	N521.680BK	-	LANmark Patch Panel 24 Angled Snap-In Black
	N521.681BK	-	LANmark Patch Panel 24 Angled Snap-In Black Cable Support
	N521.662BK	-	Patch Panel 24 Snap-In Fixed Black Labeling Windows
	N521.663	-	Patch Panel 24 Snap-In Sliding White
	N521.661	-	Patch Panel 24 Snap-In Fixed White
	N521.661BK	-	Patch Panel 24 Snap-In Fixed Black
	N521.671	-	Angled Patch Panel 24 Snap-In Black
	N521.664BK	-	Patch Panel 24 Snap-In Black
	N521.663BK	-	Patch Panel 24 Snap-In Sliding Black
	N52m.664	-	LANmark Maritime and Industry Fixed Patch Panel 24 port
	N521.668KIT	-	LANmark Patch Panel 48 EVO 1U Black Kit with 48 Cat 6A Connectors

= Make to order, = In stock,

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Modular Patch Panels for Keystone Connectors

Contact
Enquiries
Phone: +32 2 3633 800
datanetworks.info@nexans.com

- Compatible with Essential and LANmark keystone connectors
- 24 ports on 1U
- Tie-wrap strain relief
- Earthing and grounding features
- Black finish

DESCRIPTION

Application

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

Note: LANmark Snap-In connectors need to be equipped with keystone clip (N429.625 or N429.626) to fit into Keystone Panels series.

Design

The patch panels are designed to accomodate 24 keystone connectors.

The metalwork at the back of the panel is made of unpainted steel to enable the necessary earthing and bonding when using shielded cable and connectors. The painted front plate allows a neat flush mounting of the connectors.

The panels have screen-printed numbering 1-24 above the ports and a labelling field at the right end for patch panel numbering or identification.

Installation

The Nexans keystone connectors can easily be latched in place without the need for any tool. They are also easy to remove from the panel, when necessary.

The panels feature rear cable management for tie-wraps to ensure cable retention and strain relief and are supplied with fixings.

STANDARDS

International ISO/IEC 11801

All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Nexans is indicative only and shall not be binding on Nexans or be treated as constituting a representation on the part of Nexans.

Contact
Enquiries
Phone: +32 2 3633 800
datanetworks.info@nexans.com

PRODUCT LIST

	Nexans Ref.	Country Ref.	Name
	N521.660BK	-	Essential Patch Panel 24 Keystone Black
	N521.660	-	Essential Patch Panel 24 Keystone White
	N521.6671BK	-	LANmark Patch Panel 24 Staggered Keystone Black

= Make to order, = In stock,

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Voice Patch Panels

Contact
Enquiries
Phone: +32 2 3633 800
datanetworks.info@nexans.com

- Hight density RJ45 panels for voice applications
- Available in black and in white

DESCRIPTION

Nexans high density Voice Panels are designed to integrate voice circuits in standard structured cabling systems.

- 50 RJ45 ports on 1U
- Mount to standard 19" rack
- LSA/110 punchdown
- Accept multi-pair cables from 22 to 26 AWG
- Supplied with fixings
- Earthing strap included

STANDARDS

International ISO/IEC 11801

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Contact
Enquiries
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datanetworks.info@nexans.com

PRODUCT LIST

	Nexans Ref.	Country Ref.	Name
	N500.350	-	Voice Patch Panel 50 RJ45 2 pair White
	N500.350BK	-	Voice Patch Panel 50 RJ45 2 pair Black

= Make to order, = In stock,

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Patch Guides, Blank Panels & Cable Management

Contact
Enquiries
Phone: +32 2 3633 800
datanetworks.info@nexans.com

- Patch guides to manage and store all patch cords.
- 1 HU and 2 HU for high density.
- 1 HU with rings for easy access.
- Cable guide for all patch panels without clip-on.

DESCRIPTION

For a correctly managed installation, Nexans offers a full range of cable management accessories to complement our patch panel and cabinet range. The range is suitable for all Nexans Copper and Optical patch panels.

The new offering is Nexans branded to blend with other Nexans products used in a cabinet.

The cable management range is designed for all 19" cabinets. The range includes patch guides and cable guides.

Patch Guides

The Nexans patch guide range enables orderly patch cord storage. All the Nexans accessories are guaranteed to maintain the required bending radius for patch cords which in turn ensures superior data transmission for the installation. The paint finished metal accessories provide improved stability over plastic guides on the market.

The 1HU and 2HU universal patch guides are delivered with a front plate. The 8 cm depth provides for the bending radius and enough storage space for the patch cords. Two openings designed at the rear face improve the storage and entry possibilities for patch cords.

An alternative 1 HU 5- ring metal patch guide is offered. This accessory similarly allows for orderly patch cord management in any installation.

Cable Guide

The Nexans cable guide offers fast and reliable cable retention and grounding. The clip-on system is a proprietary Nexans design and improves the flexibility, solidity and the grounding of your installation.

STANDARDS

International ISO/IEC 11801

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Contact
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PRODUCT LIST

Nexans Ref.	Country Ref.	Name	Colour
N102.127	-	2HU Universal Patch Guide, White	White RAL 9002
N102.105	-	1HU Patch Guide with rings, White	White RAL 9002
N424.512	-	Cable management plate for Essential Rear Connect Panels N424.xxx	Black
N102.105BK	-	1HU Patch Guide with rings, Black	Black
N102.117BK	-	1HU Universal Patch Guide with front cover, Black	Black
N102.127BK	-	2HU Universal Patch Guide, Black	Black
N109.207	-	1HU Blank Panel	White RAL 9002
N109.207BK	-	1HU Blank Panel, black	Black
N521.672	-	Angled Blank Panel Black	Black
N521.673	-	Angled Panel Cover Black	Black
N521.678	-	Angled Pass-Through Black	Black

= Make to order, = In stock,

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Contact
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LANmark-6A Ultim UniBoot Patch Cords

Contact
Enquiries
Phone: +32 2 3633 800
datanetworks.info@nexans.com

- High speed RJ45 patch cord to run 10GBase-T and future Cat6A applications
- High Density support : 48 cords on 1 height unit
- Frequency range up to 500MHz, fully complies to Cat 6A TIA568C.2 and ISO11801
- Individually screened pairs for reduced Internal Crosstalk and Alien Crosstalk immunity
- Externally certified
- Retrofit Latch Protector available in 8 colours for colour coding

LANmark-6A

DESCRIPTION

Application

LANmark-6A Ultim cords are developed to support 10 Gigabit Ethernet (IEEE 802.3an) and any other future Cat.6A application.

LANmark-6A Ultim Cords offer superior performance up to 500MHz and are matched with other LANmark-6A components to provide improved data throughput in complex channel configurations. Ultim cords use stranded cable and as such provide maximum system flexibility for the use at Cross Connects and Consolidation points.

They will also maximise the lifetime and longevity of the system by minimising the risk of wear & tear damage. Due to their good electrical performance and mechanical stability, LANmark-6A Ultim cords can be used for accurate field testing of Cat 6A cabling channels. .

Ultim Cords feature a slim boot for mechanical protection, which is kept inside the RJ45 boundaries to enable High Density Patching with 48 cords in 1 height unit.

They also come with a ‘Replaceable’ Latch Protector, which can be used for colour coding of different services.

Performance

The LANmark-6A Ultim cords fully comply and exceed the requirements of EIA/TIA-568-C.2 and ISO11801 and enable to achieve high performing Cat 6A channels. Used with other LANmark-6A components, very short Cat 6A link and channel configurations with up to 3 connection points within 10 meters can be supported.

Guarantees

When installed in combination with other LANmark-6A components, a 25 years channel warranty can be obtained, covering full 10GBase-T support and full Cat 6A/Class EA compliance.

Usage

- The cords are by design fully Alien Crosstalk compliant, so no special installation rules need to be taken into account for ANEXT and AFEXT compliance.
- 1, 2, 3, 5, 10, 20m are standard lengths available from stock, other lengths are available on demand.
- Orange and Dark Grey are standard colours available from stock; other colours are available on demand.
- Default Plug Configuration is a black boot with a preinstalled black latch protector.

STANDARDS

International EN 50173-1; IEEE 802.3an; ISO/IEC 11801; ISO/IEC TR24750

National ANSI/TIA-568-C.2; TIA/EIA TSB-155

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LANmark-6A Ultim UniBoot Patch Cords

Contact
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Phone: +32 2 3633 800
datanetworks.info@nexans.com

CHARACTERISTICS

Construction characteristics	
Outer sheath	LSZH
Screen	Yes
Dimensional characteristics	
Conductor cross-section (AWG/KCMIL)	26
Usage characteristics	
Range	LANmark-6A

PRODUCT LIST

Nexans Ref.	Country Ref.	Name	Colour	Length [m]
N11A.U1F010OK	-	LANmark-6A Ultim Patch Cord Cat 6A Screened LSZH 1m Orange	Orange	1
N11A.U1F020OK	-	LANmark-6A Ultim Patch Cord Cat 6A Screened LSZH 2m Orange	Orange	2
N11A.U1F030OK	-	LANmark-6A Ultim Patch Cord Cat 6A Screened LSZH 3m Orange	Orange	3
N11A.U1F050OK	-	LANmark-6A Ultim Patch Cord Cat 6A Screened LSZH 5m Orange	Orange	5
N11A.U1F100OK	-	LANmark-6A Ultim Patch Cord Cat 6A Screened LSZH 10m Orange	Orange	10
N11A.U1F200OK	-	LANmark-6A Ultim Patch Cord Cat 6A Screened LSZH 20m Orange	Orange	20
N11A.U1F010DK	-	LANmark-6A Ultim Patch Cord Cat 6A Screened LSZH 1m Grey	Grey	1
N11A.U1F020DK	-	LANmark-6A Ultim Patch Cord Cat 6A Screened LSZH 2m Grey	Grey	2
N11A.U1F030DK	-	LANmark-6A Ultim Patch Cord Cat 6A Screened LSZH 3m Grey	Grey	3
N11A.U1F050DK	-	LANmark-6A Ultim Patch Cord Cat 6A Screened LSZH 5m Grey	Grey	5
N11A.U1F100DK	-	LANmark-6A Ultim Patch Cord Cat 6A Screened LSZH 10m Grey	Grey	10
N11A.U1F200DK	-	LANmark-6A Ultim Patch Cord Cat 6A Screened LSZH 20m Grey	Grey	20
N11A.U1F300DK	-	LANmark-6A Ultim Patch Cord Cat 6A Screened LSZH 30m Grey	Grey	30
N11A.U1F300OK	-	LANmark-6A Ultim Patch Cord Cat 6A Screened LSZH 30m Orange	Orange	30

= Make to order, = In stock,

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Contact
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ELECTRICAL PERFORMANCE LANMARK-6A 4 CONNECTOR CHANNEL

NEXT in dB		PSNEXT in dB			ACR-F in dB	
Min	Typ	Std	Min	Typ	Std	Typ
67,0	85,0	62,0	64,0	74,8	63,3	69,9
65,0	72,9	60,5	62,5	65,0	51,2	57,9
58,6	65,0	54,0	56,0	58,5	43,3	49,9
55,2	60,9	50,6	52,6	55,1	39,2	45,9
53,6	59,0	49,0	51,0	53,5	37,2	43,9
50,4	55,1	45,7	47,7	50,2	33,4	40,0
45,4	49,1	40,6	42,6	45,1	27,3	34,0
41,9	45,0	37,1	39,1	41,6	23,3	29,9
38,7	41,2	33,8	35,8	38,3	19,5	26,1
36,8	39,0	31,9	33,9	36,4	17,2	23,9
35,1	37,0	30,2	32,2	34,7	15,3	22,0
33,7	35,4	28,8	30,8	33,3	13,7	20,4
29,9	31,0	24,8	26,8	24,9	9,3	16,0

Freq in MHz	PS ACR-F in dB		PS ANEXT in dB			PS AACR-F in dB			RL in dB		
	Std	Typ	Std	Min	Typ	Std	Min	Typ	Std	Min	Typ
1	60,3	66,9	80,0	90,0	92,0	77,0	92,0	94,0	19,0	21,0	21,0
4	48,2	54,9	74,0	89,0	91,0	65,0	80,0	82,0	19,0	21,0	32,0
10	40,3	46,9	70,0	85,0	87,0	57,0	72,0	74,0	19,0	21,0	28,0
16	36,2	42,9	68,0	83,0	85,0	52,9	67,9	69,9	18,0	20,0	26,0
20	34,2	40,9	67,0	82,0	84,0	51,0	66,0	68,0	17,5	19,5	25,0
31,25	30,4	37,0	65,1	80,1	82,1	47,1	62,1	64,1	16,5	18,5	23,1
62,5	24,3	31,0	62,0	77,0	79,0	41,1	56,1	58,1	14,0	16,0	20,0
100	20,3	26,9	60,0	75,0	77,0	37,0	52,0	54,0	12,0	14,0	18,0
155	16,5	23,1	57,1	72,1	74,1	33,2	48,2	50,2	10,1	12,1	16,1
200	14,2	20,9	55,5	70,5	72,5	31,0	46,0	48,0	9,0	11,0	15,0
250	12,3	19,0	54,0	69,0	71,0	29,0	44,0	46,0	8,0	10,0	14,0
300	10,7	17,4	52,8	67,8	69,8	27,5	42,5	44,5	7,2	9,2	13,2
500	6,3	13,0	49,5	64,5	66,5	23,0	38,0	40,0	6,0	8,0	11,0

All values are based on Worst Case 4 Connector Channel configurations according to ISO11801.
Minimum and maximum values represent guaranteed Channel performance.
Standard values based on ISO11801 Class EA

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LANmark-6 UniBoot Patch Cords

Contact
Enquiries
Phone: +32 2 3633 800
datanetworks.info@nexans.com

- Complies fully with Category 6 standards
- Uses Nexans cable technology
- Fully matched with other components for maximum performance
- LSZH Flame retardant jacket
- Retrofit Latch Protector available in 8 colours for colour coding

LANmark-6

DESCRIPTION

Application

LANmark-6 Patch Cords can be used to deliver a full end-to-end Class E solution.

They provide improved data throughput and allow for the inclusion of a cross-connect or Consolidation Points for maximum system flexibility. They will also maximise the lifetime and long term performance of the system by minimising the risk of wear & tear damage which can be caused by using non-matched cords. .

LANmark-6 Cords feature a slim over-moulded boot which is kept inside the RJ45 boundaries to enable High Density Patching with 48 cords in 1 height unit. They also come with a Retrofit Latch Protector, which can be used for colour coding of different services.

Guarantees

When installed in combination with other LANmark-6 components, a 25 years channel warranty can be obtained, covering full Cat 6/Class E compliance.

Installation

- Small cross section allows neat installation and simplifies the creation of bundles in cabinets.
- A Low Smoke Zero Halogen - Flame Retardant jacket is standard.
- 1, 2, 3, 5, 10 and 20m are standard lengths; other lengths are available on demand.
- Orange and Dark Grey are standard colours available from stock; other colours are available on demand.
- Default Plug configuration is a black boot with a preinstalled black latch protector; other combinations available on request.

STANDARDS

International EN 50173 Ed.1; ISO/IEC 11801

National ANSI/TIA-568-C.2

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Contact
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datanetworks.info@nexans.com

CHARACTERISTICS

Construction characteristics

Outer sheath	LSZH

PRODUCT LIST

Nexans Ref.	Country Ref.	Name	Colour	Length [m]
N116.P1A010OK	-	LANmark-6 Patch Cord Cat 6 Unscreened LSZH 1m Orange	Orange	1
N116.P1A020OK	-	LANmark-6 Patch Cord Cat 6 Unscreened LSZH 2m Orange	Orange	2
N116.P1A030OK	-	LANmark-6 Patch Cord Cat 6 Unscreened LSZH 3m Orange	Orange	3
N116.P1A050OK	-	LANmark-6 Patch Cord Cat 6 Unscreened LSZH 5m Orange	Orange	5
N116.P1A100OK	-	LANmark-6 Patch Cord Cat 6 Unscreened LSZH 10m Orange	Orange	10
N116.P1A200OK	-	LANmark-6 Patch Cord Cat 6 Unscreened LSZH 20m Orange	Orange	20
N116.P1A010DK	-	LANmark-6 Patch Cord Cat 6 Unscreened LSZH 1m Grey	Grey	1
N116.P1A020DK	-	LANmark-6 Patch Cord Cat 6 Unscreened LSZH 2m Grey	Grey	2
N116.P1A030DK	-	LANmark-6 Patch Cord Cat 6 Unscreened LSZH 3m Grey	Grey	3
N116.P1A050DK	-	LANmark-6 Patch Cord Cat 6 Unscreened LSZH 5m Grey	Grey	5
N116.P1A100DK	-	LANmark-6 Patch Cord Cat 6 Unscreened LSZH 10m Grey	Grey	10
N116.P1A200DK	-	LANmark-6 Patch Cord Cat 6 Unscreened LSZH 20m Grey	Grey	20

= Make to order, = In stock,

ELECTRICAL PERFORMANCE LANMARK-6 100M 4 CONNECTOR CHANNEL

Freq	Attn dB		NEXT dB		PSNEXT dB		ELFEXT dB		PS ELFEXT dB		PS ANEXT dB		PS AELFEXT dB		RL dB	
	Std	Typ	Std	Typ	Std	Typ	Std	Typ	Std	Typ	Std	Typ	Std	Typ	Std	Typ
1	4,0	<4	65.0	>75	62.0	74.8	63.3	>60	60.3	>60	80.0	>90	77.0	>90	19.0	21.0
4	4,2	4.1	63.0	66.5	60.5	65.0	51.2	58.2	48.2	58.2	74.0	>90	65.0	80.9	19.0	21.0
10	6,6	6.4	56.6	60.1	54.0	58.5	43.3	50.3	40.3	50.3	70.0	>90	57.0	72.9	19.0	21.0
16	8,3	8.1	53.2	56.7	50.6	55.1	39.2	46.2	36.2	46.2	68.0	90.0	52.9	68.8	18.0	20.0
20	9,3	9.1	51.6	55.1	49.0	53.5	37.2	44.2	34.2	44.2	67.0	89.0	51.0	66.9	17.5	19.5
31.25	11,7	11.4	48.4	51.9	45.7	50.2	33.4	40.4	30.4	40.4	65.1	87.1	47.1	63.0	16.5	18.5
62.5	16,9	16.3	43.4	46.9	40.6	45.1	27.3	34.3	24.3	34.3	62.0	84.0	41.1	57.0	14.0	16.0
100	21,7	20.8	39.9	43.4	37.1	41.6	23.3	30.3	20.3	30.3	60.0	82.0	37.0	52.9	12.0	14.0
155	27,6	26.2	36.7	40.2	33.8	38.3	19.5	26.5	16.5	26.5	57.1	79.1	33.2	49.1	10.1	12.1
200	31,7	30.0	34.8	38.3	31.9	36.4	17.2	24.2	14.2	24.2	55.5	77.5	31.0	46.9	9.0	11.0
250	35,9	33.8	33.1	36.6	30.2	34.7	15.3	22.3	12.3	22.3	54.0	76.0	29.0	44.9	8.0	10.0

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LANmark-7A Patch Cord

Contact
Enquiries
Phone: +32 2 3633 800
datanetworks.info@nexans.com

LANmark-7A GG45 Patchcords

- High bandwidth patch cord for 25 Gigabit applications and beyond
- Runs the GG45 '2in1' Connector in its high speed GG-Mode
- Use GG45 8 Contact Plugs according IEC61076-3-110
- Allow full 4-connector Class FA channels
- Compatible with High Density requirements in Data Centres

LANmark-7A

DESCRIPTION

Description

Nexans LANmark-7A patch cords with GG45 8C non-switched plugs enable a GG45 7A permanent link to be used in 1000 MHz mode. The protruding part on the plug activates the switch within the GG45 7A “2in1” jack and terminates the none used contacts of RJ45 to ground. Using the contacts in the extreme outer corners of the GG45 interface for transmission, excellent NEXT and Return Loss performances are achieved.

Nexans LANmark-7A patch cords maximise the full performance of the channel and will exceed the requirements of the ISO 4 connector model. This provides improved data throughput up to 1000 MHz and allows for the inclusion of additional patching or Consolidation Points for maximum system flexibility and all future data applications according ISO 11801.

- High Speed patch cords
- Individually screend pairs in cable and plug
- High Speed Plug with Look and Feel of a RJ45 plug (just using different contact positions)
- 2 x GG45 8C 4-pair or GG45 8C to RJ45 (Conversion Cords)
- Orange color, different colors available on request

Guarantees

- Reliable connections over the lifetime of the cabling system.
- Compatible with IEC 61076-3-110
- Compatible with Class F and Class FA standards (ISO 11801:2008)

Installation

- Self-latching, high reliability GG45 (IEC61076-3-110) screened connectors
- Sidebars on the plug avoid errors by using the patch cord for RJ45 jacks
- Low Smoke Halogen Free - Flame Retardant cable jacket
- 1, 2, 3 and 5m lengths on stock ,others lengths available on request
- 10m and 20m offered for consolidation points (cut to length)

STANDARDS

International ISO/IEC 11801

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LANmark-7A Patch Cord

Contact
Enquiries
Phone: +32 2 3633 800
datanetworks.info@nexans.com

CHARACTERISTICS

Construction characteristics

Colour	Orange

PRODUCT LIST

Nexans Ref.	Country Ref.	Name
N101.23AEO	-	LANmark-7A Patch Cord Cat 7A 1GHz GG45 8C Screened LSZH Orange 2m
N101.23AFO	-	LANmark-7A Patch Cord Cat 7A 1GHz GG45 8C Screened LSZH Orange 3m
N101.23AHO	-	LANmark-7A Patch Cord Cat 7A 1GHz GG45 8C Screened LSZH Orange 5m
N101.23AOO	-	LANmark-7A Patch Cord Cat 7A 1GHz GG45 8C Screened LSZH Orange 10m
N101.23ARO	-	LANmark-7A Patch Cord Cat 7A 1GHz GG45 8C Screened LSZH Orange 20m
N900.67A	-	CAT7A Measurement Cord GG45 8C LSZH Orange 2m
N101.2DACO	-	LANmark-7A Conversion Cord Cat 7A GG45 4P/RJ45 4P LSZH-FR SCR 1 M ORANGE
N101.2DAEO	-	LANmark-7A Conversion Cord Cat 7A GG45 4P/RJ45 4P LSZH-FR SCR 2 M ORANGE
N101.2DAFO	-	LANmark-7A Conversion Cord Cat 7A GG45 4P/RJ45 4P LSZH-FR SCR 3 M ORANGE
N101.2DAHO	-	LANmark-7A Conversion Cord Cat 7A GG45 4P/RJ45 4P LSZH-FR SCR 5 M ORANGE

= Make to order, = In stock,

Frequency (in MHz)	Attenuation (in dB/100m)		NEXT pp (in dB)		ACR-F (in dB)		RL (in dB)		Coupling Att. (in dB)		PSANEXT (in dB)		PSAFEXT (in dB)	
	Std Max	Typical	Std Min	Typical	Std Min	Typical	Std Min	Typical	Std Min	Typical	Std Min	Typical	Std Min	Typical
1	4,0	4,0	65,0	104,8	65,0	70,0	19,0	38,0	80,0	106,0	67,0	92,4	80,0	83,0
4	4,1	4,0	65,0	94,6	65,0	70,0	19,0	32,0	68,0	94,0	67,0	92,1	79,8	82,8
10	6,4	6,3	65,0	87,8	65,0	70,0	19,0	28,0	60,0	86,0	67,0	91,0	75,9	78,9
16	8,0	7,9	65,0	84,2	63,3	68,3	18,0	26,0	55,9	81,9	67,0	90,0	73,9	76,9
20	9,0	8,9	65,0	82,5	61,4	66,4	17,5	25,0	54,0	80,0	67,0	89,4	72,9	75,9
31,25	11,2	11,1	65,0	79,1	57,5	62,5	16,5	23,1	50,1	76,1	67,0	88,0	71,0	74,0
62,5	15,9	15,6	65,0	73,7	51,5	56,5	14,0	20,0	44,1	70,1	67,0	85,3	68,0	71,0
100	20,3	19,7	65,0	70,0	47,4	52,4	12,0	18,0	40,0	66,0	67,0	83,1	65,9	68,9
155	25,4	24,5	63,0	66,6	43,6	48,6	10,1	16,1	36,2	62,2	67,0	80,8	63,9	66,9
200	28,9	27,9	60,9	64,6	41,4	46,4	9,0	15,0	34,0	60,0	67,0	79,4	62,8	65,8
250	32,5	31,2	59,1	62,8	39,4	44,4	8,0	14,0	32,0	58,0	67,0	78,1	61,8	64,8
300	35,7	34,1	57,7	61,3	37,8	42,8	8,0	13,2	30,5	56,5	67,0	77,1	60,9	63,9
500	46,7	44,1	53,6	57,2	33,4	38,4	8,0	11,0	26,0	52,0	64,5	75,0	58,6	61,6
600	51,4	48,3	52,1	55,8	31,8	36,8	8,0	10,2	24,4	50,4	63,3	75,0	57,8	60,8
700	55,8	52,1	50,8	54,5	30,5	35,5	7,5	9,5	23,1	49,1	62,3	75,0	57,1	60,1
800	59,9	55,7	49,7	53,5	29,3	34,3	7,0	9,0	21,9	47,9	61,5	75,0	56,4	59,4
900	63,8	59,1	48,8	52,5	28,3	33,3	6,5	8,5	20,9	46,9	60,7	74,0	55,9	58,9
1000	67,6	62,3	47,9	51,6	27,4	32,4	6,0	8,0	20,0	46,0	60,0	73,0	55,4	58,4
1250		70,0		42,0		25,0		8,0		40,0		70,0		50,0

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Contact
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datanetworks.info@nexans.com

Internal Title		Electrical Performance LANmark-7A 1250MHz V2	
Title		Electrical Performance LANmark-7A Channel 1250MHz	
Description		All values are based on Worst Case 4 Connector Channel configurations according ISO11801:2008 AM1	
Comment		Standard Values according ISO11801 ClassFA	
IL Formula	1000	67,6	62,3

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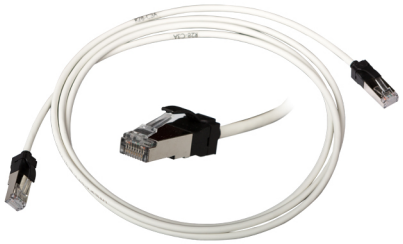
LANmark-6A Slimflex Uniboot Patch Cords

Contact
Enquiries
Phone: +32 2 3633 800
datanetworks.info@nexans.com

- Small diameter cords offering significant space-saving and flexibility
- Particularly suitable for high density patching areas including data centres
- Individually screened pairs for reduced Internal Crosstalk and Alien Crosstalk immunity
- Full Class EA Channel compliance up to 96m length including 2 x 3m cords
- White LSZH jacket
- Slim boot design with black latch protector
- Latch Protector available in 7 other colours allowing differentiation between applications



LANmark-6A

STANDARDS

International EN 50173-1; IEEE 802.3an; ISO/IEC 11801; ISO/IEC TR24750

National ANSI/TIA 568.2-D; TIA/EIA TSB-155

DESCRIPTION

Application

LANmark-6A Slimflex cords are designed to support 10 Gigabit Ethernet and other Class EA applications in high density environments. They are specified to 500MHz and are matched with LANmark-6A cable and connectors to provide full Class EA Channel configurations.

Due to their thin AWG30 stranded conductors and small outer diameter of only 4.5mm Slimflex cords offer increased flexibility and can save up to 44% space compared to regular Category 6A patch cords.

Equipped with a slim but robust boot with long latch protector, Slimflex cords support high density patching whilst facilitating easy cord removal. The prefitted black latch protector is removable and can be replaced with a coloured version, allowing colour coding of different services or applications.

Performance

LANmark-6A Slimflex cords, in conjunction with LANmark-6A cable and connectors, support all Class EA Channel configurations, as specified in TIA-568.2-D and ISO 11801, up to a total channel length of 96m, with 90m horizontal cable and max. 3m cords at either end.

Longer lengths of Slimflex cords can be supported, if the horizontal cable length is reduced according to an insertion loss ratio of 2.5, with a maximum combined length of 15m Slimflex cords.

Guarantees

When installed in combination with LANmark-6A cable and connectors, a 25 years Channel warranty can be obtained, covering full 10GBase-T support and Class EA compliance.

Usage

- Outer jacket is LSZH, standard colour is White. Other colours are available on request.
- Standard lengths are 1, 2, 3 and 5m. Other lengths are available on request.
- Up to 3m Slimflex cords at either end will support full Class EA Channel performance. Up to 15m combined length of Slimflex cords can be supported in Channel configurations when reducing the horizontal cable length according to a 2.5 derating factor. Details on supported length configurations can be found in our LANmark-6A Design Guidelines.

All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Nexans is indicative only and shall not be binding on Nexans or be treated as constituting a representation on the part of Nexans.

LANmark-6A Slimflex Uniboot Patch Cords

Contact
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Phone: +32 2 3633 800
datanetworks.info@nexans.com

CHARACTERISTICS

Construction characteristics	
Type of cable	-
Dimensional characteristics	
Conductor cross-section (AWG/KCMIL)	30
Usage characteristics	
Range	LANmark-6A

PRODUCT LIST

Nexans Ref.	Country Ref.	Name	Length [m]
N1SA.P1H005WK	-	LANmark-6A Slimflex Patch Cord S/FTP Cat 6A RJ45 LSZH White 0.5m	0.5
N1SA.P1H010WK	-	LANmark-6A Slimflex Patch Cord S/FTP Cat 6A RJ45 LSZH White 1m	1
N1SA.P1H015WK	-	LANmark-6A Slimflex Patch Cord S/FTP Cat 6A RJ45 LSZH White 1.5m	1.5
N1SA.P1H020WK	-	LANmark-6A Slimflex Patch Cord S/FTP Cat 6A RJ45 LSZH White 2m	2
N1SA.P1H025WK	-	LANmark-6A Slimflex Patch Cord S/FTP Cat 6A RJ45 LSZH White 2.5m	2.5
N1SA.P1H030WK	-	LANmark-6A Slimflex Patch Cord S/FTP Cat 6A RJ45 LSZH White 3m	3
N1SA.P1H035WK	-	LANmark-6A Slimflex Patch Cord S/FTP Cat 6A RJ45 LSZH White 3.5m	3.5
N1SA.P1H040WK	-	LANmark-6A Slimflex Patch Cord S/FTP Cat 6A RJ45 LSZH White 4m	4
N1SA.P1H050WK	-	LANmark-6A Slimflex Patch Cord S/FTP Cat 6A RJ45 LSZH White 5m	5

= Make to order, = In stock,

ELECTRICAL PERFORMANCE LANMARK-6A 4 CONNECTOR CHANNEL

NEXT in dB		PSNEXT in dB			ACR-F in dB	
Min	Typ	Std	Min	Typ	Std	Typ
67,0	85,0	62,0	64,0	74,8	63,3	69,9
65,0	72,9	60,5	62,5	65,0	51,2	57,9
58,6	65,0	54,0	56,0	58,5	43,3	49,9
55,2	60,9	50,6	52,6	55,1	39,2	45,9
53,6	59,0	49,0	51,0	53,5	37,2	43,9
50,4	55,1	45,7	47,7	50,2	33,4	40,0
45,4	49,1	40,6	42,6	45,1	27,3	34,0
41,9	45,0	37,1	39,1	41,6	23,3	29,9
38,7	41,2	33,8	35,8	38,3	19,5	26,1
36,8	39,0	31,9	33,9	36,4	17,2	23,9
35,1	37,0	30,2	32,2	34,7	15,3	22,0
33,7	35,4	28,8	30,8	33,3	13,7	20,4
29,9	31,0	24,8	26,8	24,9	9,3	16,0

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Freq in MHz	PS ACR-F in dB		PS ANEXT in dB			PS AACR-F in dB			RL in dB		
	Std	Typ	Std	Min	Typ	Std	Min	Typ	Std	Min	Typ
1	60,3	66,9	80,0	90,0	92,0	77,0	92,0	94,0	19,0	21,0	21,0
4	48,2	54,9	74,0	89,0	91,0	65,0	80,0	82,0	19,0	21,0	32,0
10	40,3	46,9	70,0	85,0	87,0	57,0	72,0	74,0	19,0	21,0	28,0
16	36,2	42,9	68,0	83,0	85,0	52,9	67,9	69,9	18,0	20,0	26,0
20	34,2	40,9	67,0	82,0	84,0	51,0	66,0	68,0	17,5	19,5	25,0
31,25	30,4	37,0	65,1	80,1	82,1	47,1	62,1	64,1	16,5	18,5	23,1
62,5	24,3	31,0	62,0	77,0	79,0	41,1	56,1	58,1	14,0	16,0	20,0
100	20,3	26,9	60,0	75,0	77,0	37,0	52,0	54,0	12,0	14,0	18,0
155	16,5	23,1	57,1	72,1	74,1	33,2	48,2	50,2	10,1	12,1	16,1
200	14,2	20,9	55,5	70,5	72,5	31,0	46,0	48,0	9,0	11,0	15,0
250	12,3	19,0	54,0	69,0	71,0	29,0	44,0	46,0	8,0	10,0	14,0
300	10,7	17,4	52,8	67,8	69,8	27,5	42,5	44,5	7,2	9,2	13,2
500	6,3	13,0	49,5	64,5	66,5	23,0	38,0	40,0	6,0	8,0	11,0

All values are based on Worst Case 4 Connector Channel configurations according to ISO11801.
Minimum and maximum values represent guaranteed Channel performance.
Standard values based on ISO11801 Class EA

All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Nexans is indicative only and shall not be binding on Nexans or be treated as constituting a representation on the part of Nexans.

LANmark-6 Slimflex UniBoot Patch Cords

Contact
Enquiries
Phone: +32 2 3633 800
datanetworks.info@nexans.com

- Small diameter cords offering significant space-saving and flexibility
- Particularly suitable for high density patching areas
- Unscreened flexible AWG28 twisted pair cable
- White LSZH jacket
- Slim boot design with black latch protector
- Latch protector available in 7 other colours, for differentiation between applications

LANmark-6

DESCRIPTION

Design and Application

LANmark-6 Slimflex UniBoot cords are designed to offer a reduced sized patching solution, whilst fully supporting Gigabit Ethernet or any other Category 6 / Class E application.

The cable is built with AWG28 stranded copper conductors and has an overall diameter of only 4 mm, as opposed to traditional Category 6 cords which have a typical width of around 6 mm.

As a result, Slimflex cords can reduce bundle sizes with 53% compared with traditional cordage. This is particularly useful in high density patching areas in telecommunications rooms, where space-saving and ease of cord management are crucial.

The stranded wire design offers also greater flexibility compared to solid wire equivalents. This combination of reduced size and increased flexibility makes the LANmark Slimflex UniBoot cords the ideal solution both for easier cabinet and rack management, and for day-to-day use in the work area.

LANmark-6 Slimflex cords feature a slim over-moulded boot with bend relief and a pre-fitted black latch protector which can be replaced with a different colour, useful for colour coding of different services. (7 additional colours available - part number series N110.LPx)

Guarantees

When installed in combination with other LANmark-6 components, a 25 years channel warranty can be obtained, covering full Category 6 / Class E compliance.

Usage

- Available lengths are 0.5m, 1m, 2m, 3m and 5m.
- Standard jacket is LSZH in White colour.

STANDARDS

International EN 50173 Ed.1; ISO/IEC 11801

National ANSI/TIA 568.2-D

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LANmark-6 Slimflex UniBoot Patch Cords

Contact
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CHARACTERISTICS

Construction characteristics	
Colour	White
Outer sheath	LSZH

PRODUCT LIST

	Nexans Ref.	Country Ref.	Name	Length [m]
	N1S6.P1A005WK	-	LANmark-6 Slimflex Patch Cord Unscreened LSZH 0.5m White	0.5
	N1S6.P1A010WK	-	LANmark-6 Slimflex Patch Cord Unscreened LSZH 1m White	1
	N1S6.P1A020WK	-	LANmark-6 Slimflex Patch Cord Unscreened LSZH 2m White	2
	N1S6.P1A030WK	-	LANmark-6 Slimflex Patch Cord Unscreened LSZH 3m White	3
	N1S6.P1A050WK	-	LANmark-6 Slimflex Patch Cord Unscreened LSZH 5m White	5

= Make to order, = In stock,

Freq	Insertion Loss dB		NEXT dB		PS NEXT dB		ACR-F dB		PS ACR-F dB		Return Loss dB	
	Std	Typ	Std	Typ	Std	Typ	Std	Typ	Std	Typ	Std	Typ
1	4,0	<4	65,0	>75	62,0	74,8	63,3	>60	60,3	>60	19,0	21,0
4	4,2	4,1	63,0	66,5	60,5	65,0	51,2	58,2	48,2	58,2	19,0	21,0
10	6,6	6,4	56,6	60,1	54,0	58,5	43,3	50,3	40,3	50,3	19,0	21,0
16	8,3	8,1	53,2	56,7	50,6	55,1	39,2	46,2	36,2	46,2	18,0	20,0
20	9,3	9,1	51,6	55,1	49,0	53,5	37,2	44,2	34,2	44,2	17,5	19,5
31.25	11,7	11,4	48,4	51,9	45,7	50,2	33,4	40,4	30,4	40,4	16,5	18,5
62.5	16,9	16,3	43,4	46,9	40,6	45,1	27,3	34,3	24,3	34,3	14,0	16,0
100	21,7	20,8	39,9	43,4	37,1	41,6	23,3	30,3	20,3	30,3	12,0	14,0
155	27,6	26,2	36,7	40,2	33,8	38,3	19,5	26,5	16,5	26,5	10,1	12,1
200	31,7	30,0	34,8	38,3	31,9	36,4	17,2	24,2	14,2	24,2	9,0	11,0
250	35,9	33,8	33,1	36,6	30,2	34,7	15,3	22,3	12,3	22,3	8,0	10,0

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European Mounting Hardware for LANmark

Contact
Enquiries
Phone: +32 2 3633 800
datanetworks.info@nexans.com

Nexans offers a complete set of European/French style mounting hardware for the use of LANmark Snap-In connectivity in the work area.

DESCRIPTION

LANmark Snap-In Modules in standard European/French style

45 x 45 mm angled and flat shuttered modules for 2 LANmark Snap-In connectors.

Covering Frames

Flush mount design to fit both the angled and flat 45 x 45 mm LANmark Snap-In Modules.

Surface Mount Boxes

Designed to fit both the angled and flat 45 x 45 mm LANmark Snap-In Modules.

LANmark

PRODUCT LIST

	Nexans Ref.	Country Ref.	Name
	N200.116	-	LANmark EU style 45 x 45 surface mount box white
	N423.550	-	LANmark EU style 45 x 45 module 2 Snap-In flat white
	N200.050	-	LANmark EU style 45 x 45 frame white
	N423.540N	-	LANmark EU style angled 45 x 45 module 2 Snap-In white
	N423.520	-	LANmark EU style angled 45 x 45 module 1 Snap-In white
	N423.540NBK	-	LANmark EU style angled 45 x 45 module 2 Snap-In black

= Make to order, = In stock,

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Nexans

UK Mounting Hardware for LANmark

Contact
Enquiries
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datanetworks.info@nexans.com

Nexans offers a complete set of UK style mounting hardware for the use of LANmark Snap-In connectivity in the work area.

DESCRIPTION

LANmark Snap-In Modules in standard UK styles

- 25 x 50 mm angled and flat shuttered modules for 1 LANmark Snap-In connector
- LJ6C angled and flat shuttered modules for 1 LANmark Snap-In connector
- 50 x 50 mm angled shuttered modules for 2 LANmark Snap-In connectors

Single and Double gang Frames

Various designs of frames to fit the 25 x 50 mm or 50 x 50 mm LANmark Snap-In Modules.

Blank Modules

To cover unused space in single or double gang frames e.g. when only 1 or 3 ports are required.

Single and Double gang Back Boxes

Suitable with the single and double gang frames.

LANmark

STANDARDS

International ISO/IEC 11801

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Nexans

UK Mounting Hardware for LANmark

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PRODUCT LIST

	Nexans Ref.	Country Ref.	Name
	N424.013	-	UK Style 50 x 50 Frame Flat White
	N424.023	-	UK Style 100 x 50 Frame Flat White
	N424.003	-	UK Style 12.5 x 50 Blank Module White
	N424.103	-	UK Style 25 x 50 Blank Module White
	N424.530	-	UK Style 50 x 50 Frame Beveled White
	N424.531	-	UK Style 100 x 50 Frame Beveled White
	N424.532	-	UK Style Backbox Single Gang White
	N424.533	-	UK Style Backbox Double Gang White
	N423.540UN	-	LANmark UK Style Angled 50 x 50 Module 2 Snap-In White
	N423.861	-	LANmark 86x86 Wallplate 1 Snap-In White
	N423.862	-	LANmark 86x86 Wallplate 2 Snap-In White
	N424.310	-	LANmark UK Style 25 x 50 Module 1 Snap-In White
	N424.315	-	LANmark UK Style Angled 25 x 50 Module 1 Snap-In White
	N424.320	-	LANmark UK Style LJ6C Module 1 Snap-In White
	N424.325	-	LANmark UK Style Angled LJ6C Module 1 Snap-In White
	N800.375	-	45x45 Adaptor Ring White

= Make to order, = In stock,

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German Mounting Hardware for LANmark

Contact
Enquiries
Phone: +32 2 3633 800
datanetworks.info@nexans.com

- German style mounting hardware
- 50x50 modules, frames and surface mount boxes
- Suitable for fibre and copper
- Colour white or ivory
- Glossy finish

DESCRIPTION

Application

To support the LANmark Snap-In range of products Nexans has developed a set of German style modules, frames and surface mount boxes.

The mounting hardware is common to all performance levels, from LANmark-5 through LANmark-6/6A to LANmark-7/7A. It is also suitable for direct terminated fibre.

Detailed information can be found on the corresponding datasheets.

Guarantees

All plastic material is UL 94V0.

LANmark

STANDARDS

International
Manufacturer specification

CHARACTERISTICS

Construction characteristics	
Colour	White RAL 9010

PRODUCT LIST

	Nexans Ref.	Country Ref.	Name
	N790.980	-	LANmark German Style 50x50 Frame White
	N900.247	-	LANmark German Style 50x50 Surface mount box White
	N423.702N	-	LANmark German Style Angled 50 x 50 Module 2 Snap-In White
	N423.701N	-	LANmark German Style Angled 50 x 50 Module 1 Snap-In White

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Nexans

3rd Party Compatible Mounting Hardware

Contact
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datanetworks.info@nexans.com

Adapter plates for floor boxes and outlet modules designed to integrate Nexans connectivity into various 3rd party products.

DESCRIPTION

Nexans offers a complete range of work area products and accessories. In addition, Nexans also has compatibility with wall outlets, trunking and underfloor systems of various brands of electrical hardware. To see our 3rd Party Compatibility Overview, click on the link on this page.

STANDARDS

International ISO/IEC 11801

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3rd Party Compatible Mounting Hardware

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PRODUCT LIST

	Nexans Ref.	Country Ref.	Name
	N800.305	-	LANmark BTicino Living/Light Module 1 Snap-In Black 20x
	N800.306	-	LANmark BTicino Living/Light Module 1 Snap-In White 20x
	N423.111	-	Floorbox Plate GES9 Ackermann/Obo 9 Snap-In (use keystone clip)
	N800.313	-	LANmark Schneider Module 1 Snap-In White 100x

= Make to order, = In stock,

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LANmark Pre-Term Units

Contact
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datanetworks.info@nexans.com

- Pre-connectorised Jack-Jack, Jack-Plug or Plug-Plug assemblies
- 4 pair single units
- Categories 6, 6A or 7A
- Repeatable and stable performance level
- Various reaction-to-fire performance levels according to CPR (h/EN50575:2014 +A1:2016)

DESCRIPTION

Design

LANmark Pre-Term Units are 4 pair cable assemblies pre-connectorised with either Jack-Jack, Jack-Plug or Plug-Plug. The jacks are LANmark Snap-In connectors, compatible with all LANmark Snap-In patch panels, zone distribution boxes and outlet modules. Shielded constructions offer immunity to external noise and comply with Alien Crosstalk requirements by design.

Each Pre-Term unit is numbered to allow identification. Labelling can be customised.

Application

Pre-Terminated assemblies are well-suited for areas where installation time is limited, as cable preparation and connector termination on-site is eliminated.

Performance

Pre-Terminated units are available in Cat 6/Class E, Cat 6A/Class EA and Cat 7A/ Class FA performance and meet or exceed the requirements for the given Category/ Class as specified in the International, European and American standards. When used in conjunction with other LANmark components of the same Category, all 3- and 4-connector Link and Channel configurations, as specified in the mentioned standards, are supported.

Installation

Nexans LANmark Pre-Term units contribute in reducing installation time, since cable preparation and connectorisation on-site is eliminated. Field testing is still required after installation to obtain the Nexans LANmark System Warranty.

Note: the units are suitable for laying, not for pulling.

Guarantees

All Pre-Term units are factory tested. An electronic format report can be delivered on request. Traceability codes ensure quality validation.

Installations with LANmark Pre-Term units in combination with other LANmark components of at least the same Category qualify for a LANmark Certified System Warranty for a period of 25 years, including parts, installation, Channel performance and application support.

STANDARDS

International ISO/IEC 11801

All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Nexans is indicative only and shall not be binding on Nexans or be treated as constituting a representation on the part of Nexans.

LANmark Pre-Term Bundles

Contact
Enquiries
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datanetworks.info@nexans.com

- Ideal assemblies for high density cabling and data centers
- Pre-connectorised bundles in Jack-Jack, Jack-Plug and Plug-Plug configurations
- Bundles of 6, 12 and 24 units
- Category 6, 6A and 7A performance levels
- Repeatable and stable level of performance
- Individual units are helically assembled to form a round and stable bundle
- Various reaction-to-fire performance levels according to CPR (h/EN50575:2014 +A1:2016)

DESCRIPTION

Design

LANmark Pre-Term bundles are assemblies of 6,12 or 24 pre-connectorised units, either in Jack-Jack, Jack-Plug or Plug-Plug configurations. The jacks are LANmark Snap-In connectors, compatible with all LANmark Snap-In patch panels, zone distribution boxes and outlet modules.

The units are helically laid up and assembled to accomodate individual unit movement. They are bundled together with a black zero halogen braided sleeve which maintains the bundle structure and facilitates easy deployment on site.

Each cable in the bundle is numbered at both ends with a Helavia ring to allow easy identification during and after installation. Labelling with traceability code is placed on the first cable to allow quality tracking.

Application

Pre-Term bundles are extremely suitable for areas where fast deployment is key. They allow installing up to 24 cables in one go, without the need for any connector termination on site.

Performance

All assemblies are available in Cat 6/Class E, Cat 6A/Class EA and Cat 7A/Class FA performance and meet or exceed the requirements for the given Category/Class as specified in the International, European and American standards. When used in conjunction with other LANmark components of the same Category, all 3- and 4-connector Link and Channel configurations, as specified in the mentioned standards, are supported.

Installation

Nexans LANmark Pre-Term bundles contribute in reducing installation time. Only one assembly needs to be laid instead of 6, 12 or 24 individual cables and connector termination on-site is eliminated.

Note: the bundles are suitable for laying, not for pulling.

Guarantees

STANDARDS

International ISO/IEC 11801

National ANSI/TIA 568.2-D

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LANmark Pre-Term Bundles

Contact
Enquiries
Phone: +32 2 3633 800
datanetworks.info@nexans.com

All bundles are factory tested. An electronic format report can be delivered on request. Traceability codes ensure quality validation.

Installations with LANmark Pre-Term bundles in combination with other LANmark components of at least the same Category qualify for a LANmark Certified System Warranty for a period of 25 years, including parts, installation, Channel performance and application support.

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LANmark Zone Distribution Boxes

Contact
Enquiries
Phone: +32 2 3633 800
datanetworks.info@nexans.com

- For use as consolidation point.
- Compatible with all LANmark snap-in connectors.
- 6 or 12 numbered snap-in ports with shutters.
- Easy to install

DESCRIPTION

Designed for use as consolidation points, zone distribution boxes significantly increase the flexibility of desk locations in open office environments. They are particularly useful in offices where frequent relocation of outlets in the work area is required.

Nexans ZD boxes are easy to install on walls, under raised floors or in ceiling voids, due to their multiple mounting features.

They are compatible with all LANmark Snap-In connectors, which can be easily inserted by a simple "one-click" movement.

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Contact
Enquiries
Phone: +32 2 3633 800
datanetworks.info@nexans.com

CHARACTERISTICS

Construction characteristics	
Material	Steel
Usage characteristics	
Packaging	-

PRODUCT LIST

Nexans Ref.	Country Ref.	Name	Colour	Depth [mm]	Height [mm]
N521.600	-	LANmark ZD box 12 Snap-In White	White RAL 9002	200	45
N521.606	-	LANmark ZD box 6 Snap-In White	White RAL 9002	125	42
N521.606BK	-	LANmark ZD box 6 Snap-In Black	Black	125	42
N521.612	-	LANmark Ruggedised Lockable ZD Box White	White RAL 9002	300	55
N521.6121	-	LANmark Ruggedised Lockable ZD Box Foot White	White RAL 9002	250	35

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Cable ties

Contact
Enquiries
Phone: +32 2 3633 800
datanetworks.info@nexans.com

DESCRIPTION

Self gripping cable ties enabling quick and convenient fastening of both fibre and copper cable bundles.

STANDARDS

International ISO/IEC 11801

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Contact
Enquiries
Phone: +32 2 3633 800
datanetworks.info@nexans.com

PRODUCT LIST

	Nexans Ref.	Country Ref.	Name
	N100.100	-	Hook & Loop Cable Strap 25m Roll

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Blank fillers

Contact
Enquiries
Phone: +32 2 3633 800
datanetworks.info@nexans.com

DESCRIPTION

Nexans offers a wide range of accessories for both copper and optical fibre LANmark systems such as:

- coloured shutters for differentiation of services in panels, outlets and zone distribution boxes
- blanks to fill unused ports
- keystone clips of various dimensions to adapt Snap-In connector format to Keystone

STANDARDS

International ISO/IEC 11801

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Blank fillers

Contact
Enquiries
Phone: +32 2 3633 800
datanetworks.info@nexans.com

PRODUCT LIST

	Nexans Ref.	Country Ref.	Name
	N420.655	-	LANmark Snap-In Blank White 24x
	N420.655BK	-	LANmark Snap-In Blank Black 24x

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Tools

Contact
Enquiries
Phone: +32 2 3633 800
datanetworks.info@nexans.com

DESCRIPTION

Nexans have a complete range of tools for terminating copper systems

STANDARDS

International ISO/IEC 11801

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Contact
Enquiries
Phone: +32 2 3633 800
datanetworks.info@nexans.com

PRODUCT LIST

	Nexans Ref.	Country Ref.	Name
	N422.117	-	Tool - LANmark-7 Easy Termination tool
	N422.118	-	Tool - Set of spare knives for LANmark-7 Easy Termination tool
	N420.567	-	Tool - Universal Comfort tool for Snap-in connector
	N420.110	-	Tool - Nexans cable stripper, 110 punchdown tool

= Make to order, = In stock,

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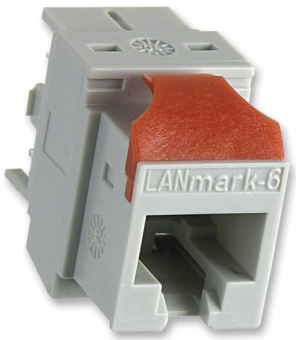
Keystone Clips

Contact
Enquiries
Phone: +32 2 3633 800
datanetworks.info@nexans.com

- Adaptor clips for LANmark Snap-In connectors



DESCRIPTION

Various clips to turn LANmark Snap-In connectors into Keystone format.

LANmark

STANDARDS

International ISO/IEC 11801

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Keystone Clips

Contact
Enquiries
Phone: +32 2 3633 800
datanetworks.info@nexans.com

PRODUCT LIST

Nexans Ref.	Country Ref.	Name
N429.620	-	Metal clip for Snap-In to keystone
N429.625	-	Red clip for LANmark Snap-In connector to keystone format (wall thickness 1,5-1,75 mm)
N429.626	-	Blue clip for LANmark Snap-In connector to keystone format (wall thickness 2,0-2,25 mm)
N429.627	-	Yellow clip for LANmark Snap-In connector to keystone format (height 19,7 mm)

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Coloured Latch Protectors for LANmark UniBoot Patch Cords

Contact
Enquiries
Phone: +32 2 3633 800
datanetworks.info@nexans.com

- Retrofit coloured latch protectors
- Fit all LANmark UniBoot patch cords
- For differentiation between services
- Available in 8 different colours
- Packed in bags of 50

DESCRIPTION

The black latch protectors supplied with LANmark UniBoot Patch Cords are removable and can be replaced with coloured versions.

This can be particularly useful to differentiate between services or applications at the patching side in the cabinet and also at consolidation points or user outlets in the work area.

The latch protectors can be installed or replaced very quickly and easily, without the need for any tools.

They are available in 8 different colours (including black) and are a perfect match for the coloured shutters.

Available colours:

- Yellow
- Orange
- Red
- Green
- Blue
- Dark grey
- Black
- White

LANmark

STANDARDS

International ISO/IEC 11801

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Nexans

Coloured Latch Protectors for LANmark UniBoot Patch Cords

Contact
Enquiries
Phone: +32 2 3633 800
datanetworks.info@nexans.com

PRODUCT LIST

	Nexans Ref.	Country Ref.	Name
	N110.LPW	-	LANmark Latch Protector White 50x
	N110.LPK	-	LANmark Latch Protector Black 50x
	N110.LPB	-	LANmark Latch Protector Blue 50x
	N110.LPR	-	LANmark Latch Protector Red 50x
	N110.LPD	-	LANmark Latch Protector Dark Grey 50x
	N110.LPG	-	LANmark Latch Protector Green 50x
	N110.LPY	-	LANmark Latch Protector Yellow 50x
	N110.LPO	-	LANmark Latch Protector Orange 50x

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Coloured Shutters for Snap-In Structural Hardware

Contact
Enquiries
Phone: +32 2 3633 800
datanetworks.info@nexans.com

- Coloured shutters for Nexans Snap-In patch panels, ZD boxes and outlets
- Available in 8 different colours
- Packed in bags of 100

DESCRIPTION

The white or black shutters supplied with Nexans patch panels, ZD boxes and outlets are removable and can be replaced with coloured versions.

This can be particularly useful to differentiate between services or applications at the patching side in the cabinet and also at consolidation points or user outlets in the work area.

The shutters are available in 8 different colours and are a perfect match for the coloured latch protectors of the LANmark UniBoot patch cords.

Available colours:

- Yellow
- Orange
- Red
- Green
- Blue
- Dark grey
- Black
- White

LANmark

STANDARDS

International ISO/IEC 11801

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Nexans

Coloured Shutters for Snap-In Structural Hardware

Contact
Enquiries
Phone: +32 2 3633 800
datanetworks.info@nexans.com

PRODUCT LIST

	Nexans Ref.	Country Ref.	Name
	N421.701WHI	-	LANmark Shutter White 100x
	N421.701BLA	-	LANmark Shutter Black 100x
	N421.701BLU	-	LANmark Shutter Blue 100x
	N421.701RED	-	LANmark Shutter Red 100x
	N421.701DGR	-	LANmark Shutter Dark Grey 100x
	N421.701GRE	-	LANmark Shutter Green 100x
	N421.701YEL	-	LANmark Shutter Yellow 100x
	N421.701ORA	-	LANmark Shutter Orange 100x

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- Right to object: you may opt out of inclusion of your data in our data science projects simply by changing the Privacy Setting on your account.
- Right to rectification: you may access and update your Nexans account settings at any time to correct or complete your account information. You may also contact Nexans at contact.privacy@nexans.com any time to access, correct, amend or delete information that we hold about you, as explained in our Privacy Policy.
- Right of access: our privacy policy describes what data we collect and how we use it. If you have specific questions about particular data, you can contact **contact.privacy@nexans.com** for further information at any time.
- Right of portability: we will export your account data to a third party at any time upon your request.

You also have the right to file a complaint with a data protection supervisory authority regarding our processing of your personal data. The responsible party in accordance with Article 4(7) of the EU General Data Protection Regulation can be contacted at contact.privacy@nexans.com or at our postal address at the attention of the “Data Protection Officer”.

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