



**Indoor cabling
LAN Cabling Systems**

Table of content

Nexans	6
Symbols	7
LAN Cabling Systems	8
Copper	9
Category 5e	10
Essential Cat 5e Cable	11
Essential Patch Panels	14
Essential Outlet Modules	16
Essential Snap-In Connector	18
Essential Cat 5e Patch Cords	20
LANmark-5 Snap-In connector	22
LANmark-5 Patch Panels	24
LANmark-5 Outlet 45x45	26
LANconnect-5e 808 Connector	28
LANconnect/LANmark-5 Cable	30
LANconnect/LANmark-5 PLUS Cable	33
LANconnect/LANmark-5 Patch Cords	35
Category 6 / 6A	38
LANmark-6 Snap-In Connector	39
LANmark-6 Cable	41
LANmark-6 Patch Cords	44
LANmark-6 10G Snap-In Connector	46
LANmark-6A Connector	49
LANmark-6A Cable	53
LANmark-6A Patch Cords	55
Essential-6 Cable	58
Essential-6 Keystone Connector	60
Essential-6 Patch Cords	62
Essential-6 Outlet Modules	64

Essential-6 Patch Panels	66
Category 7 / 7A	68
LANmark-7A Connector	69
LANmark-7A Cable	72
LANmark-7A Patch Cord	73
LANmark-7 GG45 Connector	76
LANmark-7 Cable	78
LANmark-7 Patch Cords	80
LANmark-7 Splitter Cords	82
GG45 8C PCB jack	85
Voice grade	87
Voice Cables	88
IDC connectivity and accessories	90
1 HU Voice Patch Panel 50 ports Cat 3	92
Voice Patch Cords	94
Optical Fibre	96
Fibre Cables	97
Cables - LANmark-OF UC LSZH	98
Cables - LANmark-OF TB LSZH	101
Cables - LANmark-OF UC	105
Cables - LANmark-OF UT LSZH	108
Cables - LANmark-OF TBW+ LSZH	111
Cables - LANmark-OF ZC LSZH	115
Cables - LANmark-OF UD	117
Fibre Connectivity	120
LANmark-OF Snap-In Adapter	121
LANmark-OF Connectors	123
LANmark-OF Patch Cords	125
LANmark-OF Pigtailed	130
LANmark-OF Fibre Accessories	133
Fibre Hardware	135
LANmark-OF Patch Panels	136

LANmark-OF Preloaded Patch Panel	138
E-ssential 1HU Optical fibre Patch Panel	141
LANmark-OF Zone Distribution box	143
Structural Hardware	145
Pre-Terminated Fibre Assemblies	147
Pre-terminated Assemblies	148
Intelligent Infrastructure Management	152
LANsense Software	153
LANsense Copper Patch Panels	154
LANsense Copper Patch Cords	156
LANsense Fibre Patch Panels	158
LANsense Fibre Patch Cords	160
LANsense Analysers	162
LANsense Next Generation Analyser	164
LANsense I/O and Master/Link cables	166
General hardware & accessories	168
Empty Patch Panels for Snap-In Connectors	169
Empty Patch Panels for Keystone Connectors	171
Empty Patch Panels for 808 Connectors	173
UK Mounting Hardware for LANmark / Essential	175
European Outlet Mounting Hardware for LANmark/Essential	177
US Mounting Hardware for LANmark/Essential	179
UK Mounting Hardware for 808	181
European Outlet Mounting Hardware for 808	183
Universal Zone Distribution Box	185
Patch Guides & Cable Management	187
Cabinets - Quick Mount	189
Cabinets - Wall Mountable	191
Cabinet Accessories	193
Miscellaneous Accessories	195
Active Fibre & Media Conversion	198
Services	199

Warranty Services	200
Network Design Tools	201
LANmark Audit Services	203
Training Services	205
Legal Notice	207

Nexans is the worldwide leader in the cable industry

The Group brings an extensive range of advanced copper and optical fiber cable solutions to the infrastructure, industry and building markets. Nexans cables and cabling systems can be found in every area of people's lives, from telecommunications and energy networks, to aeronautics, aerospace, automotive, railways, building, petrochemical, medical applications, etc.

With an industrial presence in more than 30 countries and commercial activities worldwide, Nexans employs 21,000 people and had sales in 2006 of 7.5 billion euros. Nexans is listed on the Paris stock exchange, compartment A of the Eurolist of Euronext. More information on www.nexans.com

Infrastructure

Nexans provides complete cables and cabling solutions for **power transmission and distribution**. New technologies, which are environmentally-friendly, increase capacity and reduce the danger of blackouts. To reinforce rail safety and efficiency, we have products customized for the demanding railroad environment. And for telecoms and mobile operators, we can upgrade existing networks and create new ones anywhere in the world.

Industry

Nexans offers a complete portfolio of cables and solutions for market segments as diverse as the **automotive, rolling stock and aerospace industries, shipbuilding, nuclear power, oil & gas and petrochemicals, material handling and automation**. We add value through advanced technologies and durable high-performance products.

Building

Nexans supplies cables and network solutions for structures of all types: from small residences to public and office buildings and big industrial complexes. **Nexans pioneered fire-performance cables for public safety**, created industrial Ethernet solutions to unite the office and the factory floor platform, and ensured the highest standards of environmental friendliness and recyclability.

Symbols

Operating temperature, range	
Storage temperature, range	
Ambient installation temperature, range	
Fire retardant	
Flame retardant	
Laying operation bending radius	
Minimum static operating bending radius	

LAN Cabling Systems

Nexans provide a full range of LAN cabling solutions & services.

- **LANsense** :Intelligent Infrastructure Management (IIM)
- **LANmark & LANconnect** : Passive LAN infrastructure solutions
- **Essential** :component based cabling products
- **Services and support tools**

LANsense
LANmark
eessential

Copper

Nexans offer the full range of copper LAN systems to ensure we can provide the solution most suited for your needs.

- All performance levels: Cat 5e, Cat 6/6A, Cat 7/7A & voice grade
- All construction types : UTP, FTP, S-FTP, PiMF
- Modular connectivity based on 'Snap-In' and '808' connectivity
- Guaranteed Application support with extended distance



Category 5e

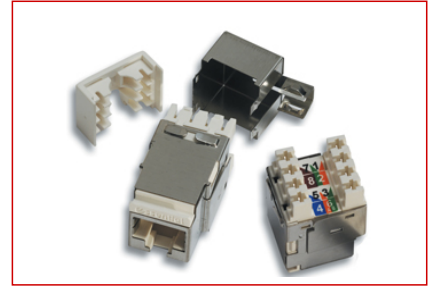
Nexans offer a choice of Category 5e ranges:

Full System- with comprehensive Certified System Parts & LABOUR Warranty.

- Cat 5e system based on snap-in format connectivity
- **LANconnect-5**
Cat 5e system based on 808 style connectivity. Extended distance support is possible using 'LANconnect PLUS' cables.

Component based solution

- **Essential**- component based 'economy without compromise'
 - cost effective solution for basic installations
 - instant downloadable Nexans Link Certificate.



Essential Cat 5e Cable

- U/UTP, F/UTP & SF/UTP construction
- Complies to latest Cat 5E standards
- Supports Gigabit Ethernet
- Guaranteed performance to 100MHz
- Single foil offers EMC performance

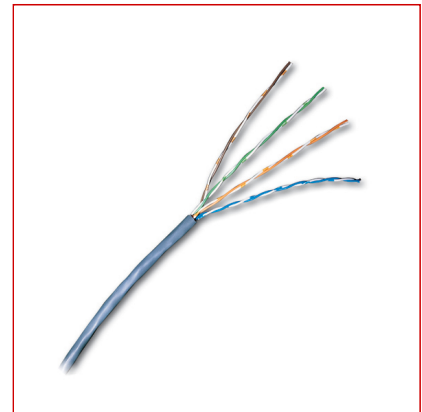
Description

Application

Category 5e cables are the standard 100MHz offering from Nexans. Manufactured in accordance with TIA 568-B and IEC 61156-5, they are suitable for basic voice & data installations. Available in Light Grey PVC or Orange LSZH.

Performance

Nexans Category 5e cables are compliant with the requirements of the TIA 568-B and IEC 61156-5.



essential

Standards

International ISO/IEC 11801
National TIA/EIA-568-B.2

Essential Cat 5e Cable

Characteristics

Usage characteristics

Range

essential

Electrical Performance

all values are specified at 20°C

Frequency	Attenuation dB/100m	NEXT dB	ACR dB/100m	PS NEXT (*) dB	ELFEXT dB/100m	PSELFEXT dB/100m	RL dB
1	2.1	65.3	63.2	62.3	63.8	61.0	20.0
4	4.0	56.3	52.3	53.3	51.7	49.0	23.0
10	6.3	50.3	44.0	47.3	43.8	41.0	25.0
16	8.0	47.3	39.3	44.3	39.7	36.9	25.0
20	9.0	45.8	36.8	42.8	37.7	35.0	25.0
31.25	11.4	42.9	31.5	39.9	33.9	31.1	23.6
62.5	16.5	38.4	21.9	35.4	27.9	25.1	21.5
100	21.3	35.3	14.0	32.3	23.8	21.0	20.1

(*) Dual cable versions additionally comply to the additional PSNEXT requirements for multi-unit cables as specified in the relevant TIA and IEC cable standards.

Product List

Nexans ref.	Name	Type of cable	Length (m)	Outer sheath	Packaging
N100.453	Essential F/UTP Cat 5e 0,5MM Dual LSZH 500M REEL	F/UTP Shotgun	500	LSZH	Reel
N100.463	Essential F/UTP Cat 5e 0,5MM Dual PVC 500M REEL	F/UTP Shotgun	500	PVC	Reel
N100.452	Essential F/UTP Cat 5e 0,5MM LSZH 1000M REEL	F/UTP	1000	LSZH	Reel
N100.454	Essential F/UTP Cat 5e 0,5MM LSZH 500M REEL	F/UTP	500	LSZH	Reel
N100.451	Essential F/UTP Cat 5e 0,5MM LSZH BOX 305M	F/UTP	305	LSZH	Box
N100.462	Essential F/UTP Cat 5e 0,5MM PVC 1000M REEL	F/UTP	1000	PVC	Reel
N100.464	Essential F/UTP Cat 5e 0,5MM PVC 500M REEL	F/UTP	500	PVC	Reel
N100.461	Essential F/UTP Cat 5e 0,5MM PVC BOX 305M	F/UTP	305	PVC	Box
N100.410	Essential SF/UTP Cat 5e 0,5MM DUAL LSZH 500M REEL	SF/UTP Shotgun	500	LSZH	Reel
N100.420	Essential SF/UTP Cat 5e 0,5MM DUAL PVC 500M REEL	SF/UTP Shotgun	500	PVC	Reel

Essential Cat 5e Cable

Nexans ref.	Name	Type of cable	Length (m)	Outer sheath	Packaging
N100.407	Essential SF/UTP Cat 5e 0,5MM LSZH 1000M REEL	SF/UTP	1000	LSZH	Reel
N100.471	Essential SF/UTP Cat 5e 0,5MM LSZH 500M REEL	SF/UTP	500	LSZH	Reel
N100.417	Essential SF/UTP Cat 5e 0,5MM PVC 1000M REEL	SF/UTP	1000	PVC	Reel
N100.476	Essential SF/UTP Cat 5e 0,5MM PVC 500M REEL	SF/UTP	500	PVC	Reel
N100.552	Essential U/UTP Cat 5e 0,5MM LSZH 1000M REEL	U/UTP	1000	LSZH	Reel
N100.554	Essential U/UTP Cat 5e 0,5MM LSZH 500M REEL	U/UTP	500	LSZH	Reel
N100.551	Essential U/UTP Cat 5e 0,5MM LSZH BOX 305M	U/UTP	305	LSZH	Box
N100.562	Essential U/UTP Cat 5e 0,5MM PVC 1000M REEL	U/UTP	1000	PVC	Reel
N100.564	Essential U/UTP Cat 5e 0,5MM PVC 500M REEL	U/UTP	500	PVC	Reel
N100.561	Essential U/UTP Cat 5e 0,5MM PVC Box 305M	U/UTP	305	PVC	Box

Essential Patch Panels

- Complies to the latest Category 5e standard
- Punchdown from the top or the rear side
- Screened or unscreened

Description

Application

The Nexans Essential 1HU twisted pair patch panel is based on 19" frame dimensions. It is easy to manage thanks to the cable guide tie wrap support. The use of patch guides (sold separately) allows an orderly arrangement of patch cords.

Performance

The Nexans Essential Range of Cat 5e cabling products are compliant with ISO/IEC 11801 :2002.

Guarantees

- 20 years link certificate available when installed as part of a Nexans Essential system.

Installation

- Supplied with fixings.
- Screened and unscreened versions available.
- Colour code T568A and T568B (Product dependent).
- Can be used with all types of cables : U/UTP, F/UTP, F2/UTP, S/FTP, SF/UTP (23 AWG , 24 AWG).



essential

Standards

International ISO/IEC 11801

Essential Patch Panels

Product List

Nexans ref.	Name
N500.202	Essential 24 port PCB Patch Panel Rear Connection 1 HU Unscreened
N424.510	Essential 24 port PCB Patch Panel Rear Connection Black
N424.513	Essential 24 port PCB Patch Panel Top Connection Black
N424.511	Essential 48 port PCB Patch Panel Rear Connection Black

Essential Outlet Modules

- Includes 25x50, LJ6C, and triple modules
- Complies to the latest Category 5e standards
- Unscreened
- LSA+ termination
- UK white
- Fits in all UK Nexans structural hardware

Description

Performance

The Nexans Essential Range of Cat 5e cabling products are compliant with ISO/IEC 11801 : 2002.

Installation

- Supplied with tie wraps
- Unscreened
- Colour code T568B.
- Labelling windows supplied
- LSA + termination
- UK white
- Fits in all UK Nexans structural hardware



essential

Standards

International ISO/IEC 11801

Essential Outlet Modules

Product List

Nexans ref.	Name
N424.521	25x50 Cat 5e Module
N424.520	25x50 Cat 5e Module - Low Profile
N424.523	LJ6C Cat 5e Module
N424.522	Triple Cat 5e Module

Essential Snap-In Connector

- Complies to the latest Category 5e standard
- Fast termination from side or rear
- Fits in all Nexans structural hardware
- 110 and LSA+ termination
- An adaptor can be added to fit the keystone format
- Unscreened or with EMC rear cover

Description

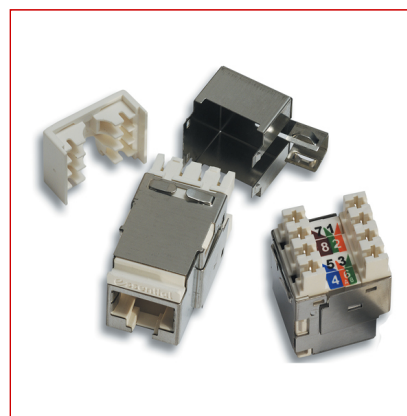
Application

The Nexans Essential Snap-In connector is part of the Nexans modular system and fits in all structural hardware designed for this range. The Nexans Essential Range of Cat 5e cabling products are compliant with ISO/IEC 11801 : 2002.

Installation

The Nexans Essential Snap-in connector is a LSA+/110 connector. It is designed to be terminated by hand, using either 110 or LSA+ termination tool.

- Advantage: 110 and/or LSA+ termination.
- Fast termination of cable from side or rear.
- Colour code: T568A and T568B.
- A clip can be added to adapt for keystone format.
- Fits in all Nexans modular structural hardware of Snap-in.
- Modular patch panel also available.
- Can be used with all types of cables: U/UTP, F/UTP, F2/UTP ,S/FTP or SF/UTP (24 AWG, 23 AWG).
- Can be used with or without an EMC rear cover.
- Two positions for the drain wire connection



essential

Standards

International ISO/IEC 11801

Essential Snap-In Connector

Characteristics

Construction characteristics

Connector type RJ45 and 110/LSA+ IDC

Usage characteristics

Range essential

Product List

Nexans ref.	Name
N420.426	Essential Screened Snap-In Cat 5e LSA/110 connectivity
N420.416	Essential Unscreened Snap-In Cat 5e LSA/110 connectivity

Contact

LAN Systems (Nexans Cabling Solutions)
Phone: +44 (0) 1256 486640
ncs.uk@nexans.com

essential patchcords

- Complies to the latest Category 5e standard
- Light grey PVC
- Screened and unscreened
- Moulded strain relief boot

Description

Application

Nexans Essential patch cords are intended to be used to complete the installation of an "Essential" Category 5e system.

- Flexible grey PVC.
- Moulded strain relief boot.
- 1.5m and 3m standard lengths.



essential

Standards

International ISO/IEC 11801



Flame retardant
IEC 60332-1

essential patchcords

Characteristics

Construction characteristics	
Colour	Grey
Outer sheath	PVC
Dimensional characteristics	
Nominal outer diameter	6.35 mm
Electrical characteristics	
Characteristic impedance	100 Ohm
Usage characteristics	
Mechanical durability/matings	100
Range	essential
Flame retardant	IEC 60332-1
Category	Cat. 5e

Product List

Nexans ref.	Name	Screen	Length (m)
N101.122DG	Essential Patch Cord F/UTP Cat 5 1,5m PVC grey	Yes	1.5
N101.122FG	Essential Patch Cord F/UTP Cat 5 3m PVC grey	Yes	3
N101.112DG	Essential Patch Cord U/UTP Cat 5 1,5m PVC grey	No	1.5
N101.112FG	Essential Patch Cord U/UTP Cat 5 3m PVC grey	No	3

LANmark-5 Snap-In connector

- Available in Screened and Unscreened version
- Version for stranded wire available, both in Screened and Unscreened
- No punchdown tool needed for termination
- Reduced risk of installation errors gives consistent performance
- Compatible with all Snap-in hardware
- Compatible with keystone format using additional clip

Description

Application

The LANmark-5 Snap-in connector range is part of the Nexans modular system and fits in all structural hardware designed for this range. As such it supports all data applications defined for Cat 5 and Cat 5e, such as 10baseT, Fast Ethernet, Gigabit Ethernet, 155 ATM.

Performance

The LANmark-5 Snap-in connector is designed to reach the highest performance in Cat5e. It has outstanding performance for attenuation (insertion loss), NEXT/FEXT, Power Sum NEXT/FEXT and Return Loss, exceeding the Cat 5e connector specs as in ISO/IEC 11801:2002. Used with Nexans LANmark-5 cable and patchcords, the connector is tested to exceed the link and stringent four-conductor channel requirements as defined in the ISO/IEC 11801:2002 standard.

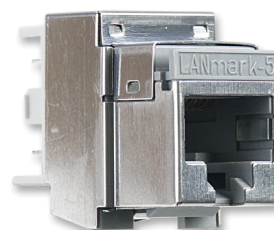
Guarantees

The LANmark-5 Snap-in connector range is covered by the Nexans guarantee conform The General Terms and Conditions of Sales. In combination with the Nexans LANmark-5 product range, the Nexans Certified System Warranty can be obtained, covering parts, system and labour.

Installation

The LANmark-5 Snap-in connector range is designed to be terminated by hand, without punchdown tool. The exclusive construction of the wire organizer makes termination fast and self-evident. To allow an even quicker and easier installation, an optional comfort tool can be used (N420.567). This tool includes an extraction mechanism which makes the connector re-usable. The LANmark-5 snap-in range is Nexans technology inside and user friendly outside.

- Fast and easy termination thanks to wire organiser
- No punchdown tool needed
- Colour code : T568A and T568B
- Re-usable with universal comfort tool (N420.567)
- Fits in all Nexans structural hardware for snap-in format
- Different versions available: for solid wire and for stranded wire, both in screened and unscreened version.



LANmark-5

Standards

International ISO/IEC 11801
National TIA/EIA-568-B.2

LANmark-5 Snap-In connector

Characteristics

Construction characteristics

Connector type RJ45 and Tool-less IDC



Dimensional characteristics

Width 17 mm

Usage characteristics

Range LANmark-5

Product List

Nexans ref.	Name	Height (mm)	Screen
N420.555	LANmark-5 Screened Snap-In connector	23.2	Yes
 N420.556	LANmark-5 Screened Snap-In connector for stranded wire	23.2	Yes
N420.550	LANmark-5 Unscreened Snap-In connector	22.9	No
 N420.551	LANmark-5 Unscreened Snap-In connector for stranded wire	22.9	No

LANmark-5 Patch Panels

- Offers headroom to latest Category 5e standard
- Sliding mechanism version: easy access from front side and including marking strip
- Top connection version supplied with an integrated cable management plate for tie wrap
- LSA+/110 IDC compatible termination
- included marking strip
- Screened and unshielded version
- Suitable for 4 twisted pairs LAN cable and for Voice multipairs cable : access from rear or from side

Description

Application

The LANmark-5 1HU twisted pair patch panel is based on 19" frame dimensions. In the sliding mechanism version, it is easy to manage thanks to the integrated Clip-on. In the top connection version, it is easy to manage thanks to the integrated cable management plate. Both versions provide reliable cable retention and grounding. The use of patch guides (sold separately) allows an orderly arrangement of patchcords.

Performance

The LANmark-5 connector has been designed to reach the highest in Cat 5E performance. It has outstanding performances for attenuation (insertion loss), NEXT/FEXT per pair, Power Sum NEXT/FEXT and RETURN LOSS. The LANmark-5 connector module is independently tested and when used with LANmark-5 cable and patchcords, the 4 connector channel exceeds the Class D requirements as defined in the ISO/IEC11801 : 2002

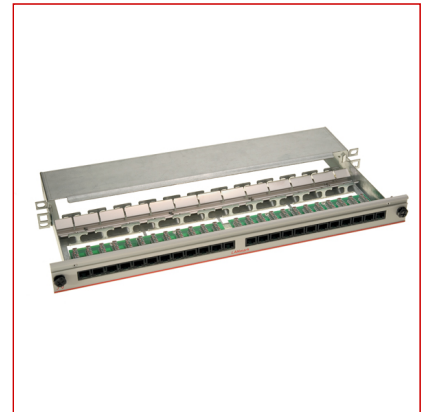
Guarantees

The LANmark-5 PCB patch panel is fully compliant with the ISO/IEC11801 : 2002 and exceeds all parameters with large headroom. In combination with the Nexans LANmark product range, this patch panel offers you a full Class D warranted solution.

Installation

The patch panel is equipped with a sliding mechanism or with an integrated cable management plate for easy front access when mounted into a cabinet. This time saving mechanism facilitates front side termination.

- Easy to install and modify: all operations are performed at the front side.
- Supplied with fixings.
- Available with Nexans LSA+/110 IDC compatible terminations.
- Unshielded and screened versions available.
- Suitable for multipairs cable
- 9 pins IDC block for easy termination of drain wire for screened version or 8 pins IDC block for unshielded version
- Colour code T568A and T568B.
- Can be used with all types of cables : F2TP, UTP, S-FTP and STP.
- Accepts 24, 23 and 22 AWG cables.



LANmark-5

Standards

International ISO/IEC 11801

LANmark-5 Patch Panels

Characteristics

Dimensional characteristics

Heightunit 1 U

Usage characteristics

Category Cat. 5e

Range LANmark-5

Number of ports 24

Product List

Nexans ref.	Name	Screen	Depth (mm)
N500.115	LANmark 5 Sliding PCB Patch Panel Screened	Yes	170
N500.215	LANmark-5 Fixed PCB Patch Panel Screened	Yes	137
N500.205	LANmark-5 Fixed PCB Patch Panel Unscreened	No	137
N500.105	LANmark-5 Sliding PCB Patch Panel Unscreened	No	170

LANmark-5 Outlet 45x45

- Offers headroom to latest Category 5e standard.
- LSA+ termination
- Screened and unscreened version
- Single and double connection available
- Fits in Nexans structural hardware.

Description

Features

Full Category 5 outlets with better than 40 dB NEXT at 100 MHz between every pair combination. RJ45 ISO 8877 compliant outlets with T 568B and T 568A pin configuration.

Fast Foolproof installation:

- IDC contacts at frontside for convenient installation
- IDC colour coding in conformity with cable colour coding

Integrated Outlet Labelling System for easy management and identification

- Labelling window supplied

Versions available: single and double RJ45 connectors, screened and unscreened.

Country specific covering plates adapt to national requirements and designs.

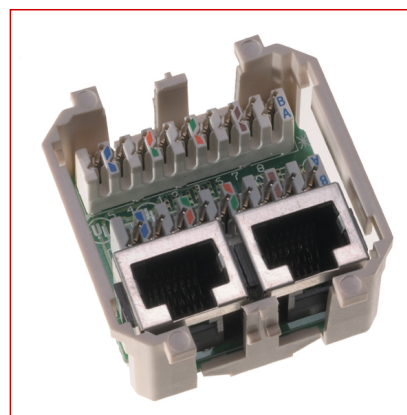
The connector module is designed to be compatible with any covering plate by using adaptation rings if required.

These modules fit into a complete range of international Covering Plates.

All plastic material is UL 94V0.

Values

Min. Next Loss (dB)	40
Min. Return Loss (dB)	14



LANmark-5

Standards

International ISO/IEC 11801

LANmark-5 Outlet 45x45

Characteristics

Construction characteristics	
Connector type	RJ45 and LSA+ IDC
Dimensional characteristics	
External dimensions	45 (H)x 45 (W) x 16(D)mm
Transmission characteristics	
Attenuation, max. 100 MHz	0.40 dB/100m
Usage characteristics	
Range	LANmark-5

Product List

Nexans ref.	Name	Colour	Screen
N462.211	LANmark-5 Double Outlet 45x45 Screened Ivory with Shutter	Ivory	No
N462.210	LANmark-5 Double Outlet 45x45 Screened White with Shutter	White RAL 9010	Yes
N462.201	LANmark-5 Double Outlet 45x45 Unscreened Ivory with Shutter	Ivory	Yes
N462.200	LANmark-5 Double Outlet 45x45 Unscreened White with Shutter	White RAL 9010	No
N462.111	LANmark-5 Single Outlet 45x45 Screened Ivory with Shutter	Ivory	Yes
N462.110	LANmark-5 Single Outlet 45x45 Screened White with Shutter	White RAL 9010	Yes
N462.101	LANmark-5 Single Outlet 45x45 Unscreened Ivory with Shutter	Ivory	No
N462.100	LANmark-5 Single Outlet 45x45 Unscreened White with Shutter	White RAL 9010	No

LANconnect-5e 808 Connector

- 808 format
- Small footprint
- High density. 48 port 1HU panels available
- low depth
- Unscreened and Screened versions

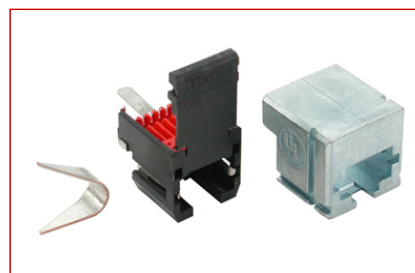
Description

The Nexans LANconnect Category 5e 808 connector is very robust and suitable for use in many applications. The connector can be individually installed in panels or outlets and is also suitable for use in preterminated cable assemblies enabling a project team to reduce the time taken to complete an installation.

The connector has one of the smallest footprints and profiles on the market, enabling high density panel presentation.

The connector has excellent installed NEXT, Attenuation and Return Loss characteristics providing a solid platform for running the operation of Class D network protocols.

When installed as part of a complete LANconnect solution, extended distances application support is possible depending on the choice of cable used. Full LANconnect channel solutions are covered by the Nexans PARTS AND LABOUR Certified System Warranty.



LANconnect

Standards

International IEC 60603-7-4;
ISO/IEC 11801;UL and CSA
approval
National TIA/EIA-568-B.2

LANconnect-5e 808 Connector

Product List

Nexans ref.	Name	Screen
N808.1111	LANconnect 5e FTP Connector	FTP
N808.1112	LANconnect 5e FTP Connector 360°	FTP
N808.1113	LANconnect 5e SFTP Connector 360°	S-FTP
N808.1101	LANconnect 5e UTP Connector	UTP

LANconnect/LANmark-5 Cable

- Offers headroom to Category 5e standards
- Performance guaranteed to 155MHz
- Supports Gigabit Ethernet

Description

Application

Nexans LANconnect/LANmark-5 cable is designed to provide additional performance and bandwidth over and above the basic requirements of Category 5e. With modern high speed applications, installation effects can have a serious influence on the initial cable performance and therefore without sufficient headroom, problems can arise. The addition of transition points within the link can also lead to additional losses. Nexans LANconnect/LANmark-5 provides the additional headroom necessary to ensure that applications such as Gigabit Ethernet can run efficiently after installation. It is available in Grey PVC or Orange LSZH.

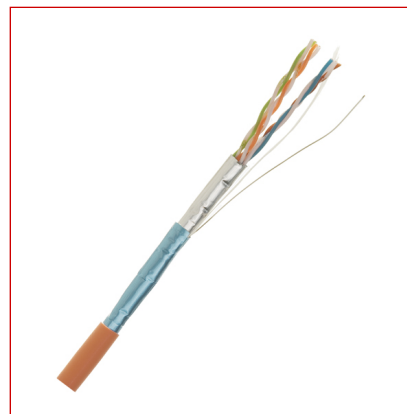
Performance

With guaranteed performance to 155MHz, Nexans LANconnect/LANmark-5 cables provide guaranteed additional headroom and bandwidth over and above the requirements of TIA 568-B and IEC 61156-5.

Guarantees

Nexans LANconnect/LANmark-5 cables are covered by the guarantee that they are Category 5e and by a parts and labour warranty as described in the Nexans Certified System Warranty. Moreover they come with following guarantees:

- 3dB min. headroom over IEC 61156-5 and TIA 568-B Cat 5e NEXT
- Improved ACR
- Superior EMC performance
- 155MHz guaranteed performance
- When used in a full LANmark system, full LANmark D channel warranty can be obtained.



LANmark-5

Standards

International ISO/IEC 11801;
ISO/IEC 61156-5
National TIA/EIA-568-B.2

LANconnect/LANmark-5 Cable

Characteristics

Electrical characteristics

Transfer impedance 20

Characteristic impedance 100 Ohm

Transmission characteristics

Propagation delay, max. 100 MHz 536 ns/100m

Usage characteristics

Range LANmark-5



Electrical Performance

all values are specified at 20°C


Frequency	Attenuation dB/100m	NEXT dB	ACR dB/100m	PSNEXT(*) dB	ELFEXT dB/100m	PSELFEXT dB/100m	RL dB
1	2.1	68.3	66.2	65.3	63.8	61.0	20.0
4	4.0	59.3	55.3	56.3	51.7	49.0	23.0
10	6.3	53.3	47.0	50.3	43.8	41.0	25.0
16	8.0	50.3	42.3	47.3	39.7	36.9	25.0
20	9.0	48.8	39.8	45.8	37.7	35.0	25.0
31.25	11.4	45.9	34.5	42.9	33.9	31.1	23.6
62.5	16.5	41.4	24.9	38.4	27.9	25.1	21.5
100	21.3	38.3	17.0	35.3	23.8	21.0	20.1
155	27.2	35.5	8.3	32.5	19.9	17.2	18.7

(*) Dual cable versions additionally comply to the additional PSNEXT requirements for multi-unit cables as specified in the relevant TIA and IEC cable standards.

Product List

Nexans ref.	Name	Type of cable	Category	Outer sheath	Flame retardant
N100.403	LANconnect/LANmark-5 F ² /UTP Dual LSZH 500m Reel	F ² TP Shotgun	LANmark-5	LSZH	IEC 60332-1
 N100.413	LANconnect/LANmark-5 F ² /UTP Dual PVC 500m Reel	F ² TP Shotgun	LANmark-5	PVC	IEC 60332-1
N100.402	LANconnect/LANmark-5 F ² /UTP LSZH 1000m Reel	F ² TP	LANmark-5	LSZH	IEC 60332-1
N100.421	LANconnect/LANmark-5 F ² /UTP LSZH 500m Reel	F ² TP	LANmark-5	LSZH	IEC 60332-1
N100.412	LANconnect/LANmark-5 F ² /UTP PVC 1000m Reel	F ² TP	LANmark-5	PVC	IEC 60332-1
N100.431	LANconnect/LANmark-5 F ² /UTP PVC 500m Reel	F ² TP	LANmark-5	PVC	IEC 60332-1
 N100.493	LANconnect/LANmark-5 F ¹ /UTP Dual LSZH 500m Reel	F/UTP Shotgun	LANmark-5	LSZH	IEC 60332-1

LANconnect/LANmark-5 Cable

Nexans ref.	Name	Type of cable	Category	Outer sheath	Flame retardant
 N100.443	LANconnect/LANmark-5 F ¹ /UTP Dual PVC 500m Reel	F/UTP Shotgun	LANmark-5	PVC	IEC 60332-1
N100.492	LANconnect/LANmark-5 F ¹ /UTP LSZH 1000m Reel	F/UTP	LANmark-5	LSZH	IEC 60332-1
N100.491	LANconnect/LANmark-5 F ¹ /UTP LSZH 305m Box	F/UTP	LANmark-5	LSZH	IEC 60332-1
N100.494	LANconnect/LANmark-5 F ¹ /UTP LSZH 500m Reel	F/UTP	LANmark-5	LSZH	IEC 60332-1
N100.442	LANconnect/LANmark-5 F ¹ /UTP PVC 1000m Reel	F/UTP	LANmark-5	PVC	IEC 60332-1
N100.441	LANconnect/LANmark-5 F ¹ /UTP PVC 305m Box	F/UTP	LANmark-5	PVC	IEC 60332-1
N100.444	LANconnect/LANmark-5 F ¹ /UTP PVC 500m Reel	F/UTP	LANmark-5	PVC	IEC 60332-1
N100.502	LANconnect/LANmark-5 U/UTP LSZH 1000m Reel	U/UTP	LANmark-5	LSZH	IEC 60332-1
N100.507	LANconnect/LANmark-5 U/UTP LSZH 305m Box	U/UTP	LANmark-5	LSZH	IEC 60332-1
N100.521	LANconnect/LANmark-5 U/UTP LSZH 500m Reel	U/UTP	LANmark-5	LSZH	IEC 60332-1
N100.512	LANconnect/LANmark-5 U/UTP PVC 1000m Reel	U/UTP	LANmark-5	PVC	IEC 60332-1
N100.517	LANconnect/LANmark-5 U/UTP PVC 305m Box	U/UTP	LANmark-5	PVC	IEC 60332-1
N100.522	LANconnect/LANmark-5 U/UTP PVC 500m Reel	U/UTP	LANmark-5	PVC	IEC 60332-1

Selling delivery information

Installation: Nexans LANconnect/LANmark-5 cables are designed to be installer friendly. The additional performance headroom provides confidence for difficult installations.

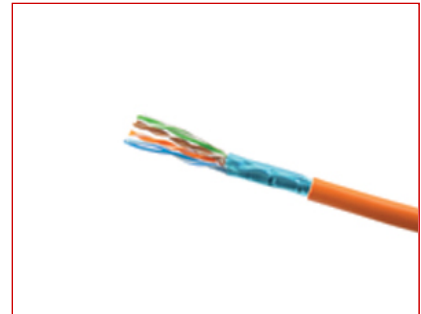
LANconnect/LANmark-5 PLUS Cable

- Enables extended distance application support
- Additional headroom over Category 5e
- Available in screened and unscreened versions

Description

LANconnect/LANmark-5 Plus infrastructure cables provide enhanced performance which when used in conjunction with LANconnect connectivity and patch cords, enables extended distance application support. Alternatively, the additional headroom can be used to support up to six mated connections for increased flexibility.

For more information on extended distance support see the specific warranty module in the file library.



LANconnect

Standards





International EN 50265
National TIA/EIA-568-B.2

LANconnect/LANmark-5 PLUS Cable

LANconnect 5e PLUS Cable

Frequency	Attenuation dB/100m	NEXT dB	ACR dB/100m	PSNEXT(*) dB	ELFEXT dB/100m	PSELFEXT dB/100m	RL dB
1	2.0	72.0	70.0	69.0	63.8	61.0	21.0
4	3.8	63.0	59.2	60.0	51.8	49.0	24.0
10	5.8	57.0	51.2	54.0	43.8	41.0	26.0
16	7.5	53.9	46.4	50.9	39.7	36.9	26.0
20	8.5	52.5	44.0	49.5	37.8	35.0	26.0
31.25	10.4	49.6	39.2	46.6	33.9	31.1	24.3
62.5	15.1	45.1	30.0	42.1	27.9	25.1	20.8
100	20.1	42.0	21.9	39.0	23.8	21.0	20.0
155	25.5	39.1	13.6	36.1	20.0	17.2	18.7
200	30.0	37.5	7.5	34.5	17.8	15.0	18.0

Product List

Nexans ref.	Name	Type of cable
N100.242	LANconnect/LANmark-5 PLUS F/UTP LSZH Cable Orange - 1000m Reel	F/UTP
 N100.240	LANconnect/LANmark-5 PLUS F/UTP LSZH Cable Orange - 305m Reel	F/UTP
N100.244	LANconnect/LANmark-5 PLUS F/UTP LSZH Cable Orange - 500m Reel	F/UTP
N100.247	LANconnect/LANmark-5 PLUS F/UTP PVC Cable Grey - 1000m Reel	F/UTP
 N100.245	LANconnect/LANmark-5 PLUS F/UTP PVC Cable Grey - 305m Reel	F/UTP
 N100.249	LANconnect/LANmark-5 PLUS F/UTP PVC Cable Grey - 500m Reel	F/UTP
N100.342	LANconnect/LANmark-5 PLUS SF/UTP LSZH Cable Orange - 1000m Reel	SF/UTP
N100.344	LANconnect/LANmark-5 PLUS SF/UTP LSZH Cable Orange - 500m Reel	SF/UTP
N100.142	LANconnect/LANmark-5 PLUS U/UTP LSZH Cable Orange - 1000m Reel	U/UTP
 N100.146	LANconnect/LANmark-5 PLUS U/UTP PVC Cable Grey - 305m Box	U/UTP

LANconnect/LANmark-5 Patch Cords

- Component Compliant
- Ensures maximum channel performance from LANmark system
- PVC & LSZH options
- Screened & Unscreened
- Alternative colours and lengths available in PVC

Description

Application

This full Category 5e patch cord maximises the full performance of the channel and will exceed the requirements of the ISO/IEC 4 connector model when used as part of a LANmark-5 cabling Class D solution. This provides improved data throughput and allows for the inclusion of a Cross-Connect or Consolidation Points for maximum system flexibility.

Screened and unscreened versions

Guarantees

- When used with the LANmark-5 system, Cat 5e/Class D channel performance complies to the channel limits of TIA/EIA-568B and ISO/IEC 11801 : 2002.
- Reliable connections.

Installation

- Small cross section allows neat installation and simplifies the creation of bundles in cabinets.
- Low Smoke Halogen Free - Flame Retardant and PVC jackets are standard.
- 1, 2, 3 and 5m are standard lengths, other lengths are available on demand.
- 15 m (LSZH only) is standard length for single end patch cord. Other lengths are available on demand.
- Orange for LSZH and Dark Grey for PVC are standard. Other colours (Red, Blue, Yellow and Green) are available on request (in PVC only) subject to quantity and availability.
- Standard Patch Cords
 1. Rugged construction
 2. High connector retention force due to moulded connectors.
 3. External strain relief.
 4. Self-latching, high reliability RJ45 (ISO 8877) connectors
- Coloured Patch Cords
 1. Coloured boot on the connector
 2. High connector retention force
 3. External strain relief.
 4. Self-latching, high reliability RJ45 (ISO 8877) connectors



LANmark-5

Standards

International ISO/IEC 11801
National TIA/EIA-568-B.2

LANconnect/LANmark-5 Patch Cords


Characteristics

Dimensional characteristics	
Nominal outer diameter	5.5 mm
Electrical characteristics	
Characteristic impedance	100 Ohm
Usage characteristics	
Range	LANmark-5
Mechanical durability/matings	750

Product List

Nexans ref.	Name	Outer sheath	Length (m)	Colour	Screen
N101.223CO	LANconnect/LANmark-5 RJ45 Patch Cord Screened LSZH Orange 1m	LSZH	1	Orange	Yes
N101.223EO	LANconnect/LANmark-5 RJ45 Patch Cord Screened LSZH Orange 2m	LSZH	2	Orange	Yes
N101.223FO	LANconnect/LANmark-5 RJ45 Patch Cord Screened LSZH Orange 3m	LSZH	3	Orange	Yes
N101.223HO	LANconnect/LANmark-5 RJ45 Patch Cord Screened LSZH Orange 5m	LSZH	5	Orange	Yes
N101.123CF	LANconnect/LANmark-5 RJ45 Patch Cord Screened PVC Grey 1m	PVC	1	Grey	Yes
N101.123EF	LANconnect/LANmark-5 RJ45 Patch Cord Screened PVC Grey 2m	PVC	2	Grey	Yes
N101.123FF	LANconnect/LANmark-5 RJ45 Patch Cord Screened PVC Grey 3m	PVC	3	Grey	Yes
N101.123HF	LANconnect/LANmark-5 RJ45 Patch Cord Screened PVC Grey 5m	PVC	5	Grey	Yes
N101.213CO	LANconnect/LANmark-5 RJ45 Patch Cord Unscreened LSZH Orange 1m	LSZH	1	Orange	No
N101.213EO	LANconnect/LANmark-5 RJ45 Patch Cord Unscreened LSZH Orange 2m	LSZH	2	Orange	No
N101.213FO	LANconnect/LANmark-5 RJ45 Patch Cord Unscreened LSZH Orange 3m	LSZH	3	Orange	No
N101.213HO	LANconnect/LANmark-5 RJ45 Patch Cord Unscreened LSZH Orange 5m	LSZH	5	Orange	No
N101.113CF	LANconnect/LANmark-5 RJ45 Patch Cord Unscreened PVC Grey 1m	PVC	1	Grey	No
N101.113EF	LANconnect/LANmark-5 RJ45 Patch Cord Unscreened PVC Grey 2m	PVC	2	Grey	No
N101.113FF	LANconnect/LANmark-5 RJ45 Patch Cord Unscreened PVC Grey 3m	PVC	3	Grey	No
N101.113HF	LANconnect/LANmark-5 RJ45 Patch Cord Unscreened PVC Grey 5m	PVC	5	Grey	No
 N101.243QO	LANmark-5 RJ45 Single-End Patch Cord Unscreened LSZH Orange 15 m	LSZH	15	Orange	No

LANconnect/LANmark-5 Patch Cords

Nexans ref.	Name	Outer sheath	Length (m)	Colour	Screen
 N101.253QO	LANmark-5 RJ45 Single-end Patch Cord Screened LSZH Orange 15 m	LSZH	15	Orange	Yes

Category 6 / 6A

LANmark-6 is considered the best horizontal solution for most enterprise requirements by combining high performance for today, room for growth tomorrow, and high reliability and efficiency. The range of systems include 10Gigabit solutions offering bandwidth up to 500MHz with extensive headroom on channel performance.



LANmark-6 Snap-In Connector

- Cat 6 Snap-In available in 3 versions UTP, FTP, EMC.
- Fits in all structural hardware designed for this range.
- Easy termination, without punch down tool.
- An adapter can be added to fit the keystone format

Description

Application

The LANmark-6 Toolless Snap-In Connector is part of the Nexans modular system and fits in all structural hardware designed for this range. As such it supports all data applications defined for Cat 5, Cat 5e and Cat 6, such as 10baseT, Fast Ethernet, Gigabit Ethernet, 155 ATM, 622 ATM, 1.2 ATM...

Performance

The LANmark-6 Snap-In Connector has been designed to reach the highest performance in Cat 6 and Class E. It has outstanding performance for attenuation (insertion loss), NEXT/FEXT, Power Sum NEXT/FEXT and Return Loss, exceeding the Cat 6 connector specs as in ISO/IEC 11801:2002. The unique cross-technology in the connector ensures the high performance of the link. Used with Nexans LANmark-6 cables and patchcords, the connector is independently tested to exceed the link and stringent four-conductor channel requirements as defined in the ISO/IEC 11801:2002.

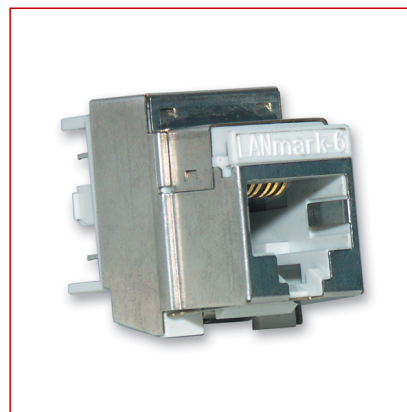
Guarantees

The LANmark-6 Snap-In Connector is covered by the guarantee as in 'The General Terms and Conditions of Sales'. In combination with the Nexans LANmark-6 product range, the Nexans Certified System Warranty can be obtained, covering parts, system and labour warranty.

Installation

The LANmark-6 Snap-In Connector is a toolless connector. It is designed to be terminated by hand, without punchdown tool. For faster and easier installation of large volumes, an optional comfort tool can be used.

- Fast termination of cable
- Colour code : TSB568A & TSB568B
- Can be used with all types of cables : F²TP, UTP or STP
- Accepts 24, 23 and 22 AWG cable



LANmark-6

Standards

International ISO/IEC 11801

LANmark-6 Snap-In Connector

Characteristics

Usage characteristics

Category



Cat. 6

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

All values are in dB

Product List

Nexans ref.	Name	Height (mm)	Width (mm)	Range
N42i.001 New	IP67 - LANmark Industry, Industrial outlet RJ45 Cat 6, Toolless connectivity, screened (EMC)	173.0	90	LANmark Industry
N20i.000 New	LANmark Industry DIN-Rail mount with Cat 6 connector, Toolless connectivity, screened, with rear cover (EMC)	77.8	18	LANmark Industry
N20i.002 New	LANmark Industry Pair of Side covers for DIN-Rail mount Cat 6 EVO, Grey	77.8	6	LANmark Industry
N420.666 New	LANmark-6 EVO Snap- in connector, Toolless connectivity, screened, with rear cover (EMC) for solid wire	23.15	16.8	LANmark-6
 N420.667 New	LANmark-6 EVO Snap-in connector, Toolless connectivity, screened, with rear cover (EMC) for stranded wire	23.15	16.8	LANmark-6
N420.660 New	LANmark-6 EVO Snap-in connector, Toolless connectivity, unscreened for solid wire	22.9	16.7	LANmark-6
 N420.661 New	LANmark-6 EVO Snap-in connector, Toolless connectivity, unscreened for stranded wire	22.9	16.7	LANmark-6

LANmark-6 Cable

- Complies to all Category 6 cable standards
- Supports Class E applications
- Central cross member maintains geometry and performance
- Tested up to 350MHz

Description

Application

LANmark-6 cable is the ultimate solution for a future proof network. It is specifically designed to support the exacting requirements for tomorrow's protocols, yet is fully backwards compatible with today's needs. It is the recommended cable for all forthcoming installations.

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

LANmark-6 is independently verified to exceed the requirements of the ISO/IEC 11801:2002 Category 6 requirements.

Performance

Tested to 350 MHz and with guaranteed performance to 250 MHz, Nexans LANmark-6 cables provide guaranteed headroom and bandwidth over and above the requirements of all international, european and american cable standards, including ISO/IEC 11801:2002, IEC 61156-5, EN 50173, EN 50288, TIA/EIA 568-B.2-1.

Installation

LANmark-6 is installed in exactly the same way as Category 5 cables. The C³ central cross member reduces the risk of crushing and kinking.

Guarantees

Nexans LANmark-6 cable is covered by the guarantee that it is Category 6 and by a parts and labour warranty as described in the Nexans Certified System Warranty.



LANmark-6

Standards

International EN 50288; IEC 61156-5; ISO/IEC 11801
National TIA/EIA-568-B.2-1

LANmark-6 Cable

Electrical Performance

All values are specified at 20°C



Frequency	Attenuation dB/100m	NEXT dB	ACR dB/100m	PSNEXT(*) dB	ELFEXT dB/100m	PSELFEXT dB/100m	RL dB
1	2.0	74.3	72.3	72.3	70.0	67.0	20.0
4	3.8	65.3	61.5	63.3	58.0	55.0	23.0
10	6.0	59.3	53.3	57.3	50.0	47.0	25.0
16	7.6	56.2	48.6	54.3	45.9	42.9	25.0
20	8.5	54.8	46.3	52.8	44.0	41.0	25.0
31.25	10.7	51.9	41.2	49.9	40.5	37.5	23.6
62.5	15.4	47.4	32.0	45.4	34.1	31.1	21.5
100	19.8	44.3	24.5	42.3	30.0	27.0	20.1
155	25.2	41.4	16.2	39.5	26.2	23.2	18.8
200	29.0	39.8	10.8	37.8	24.0	21.0	18.0
250	32.8	38.3	5.5	36.3	22.0	19.0	17.3
300	36.4	37.1	1.5	35.2	20.5	17.5	16.8
350	39.8	36.1	-	34.2	19.1	16.1	14.1

(*) Dual cable versions additionally comply to the additional PSNEXT requirements for multi-unit cables as specified in the relevant TIA and IEC cable standards.

Product List

Nexans ref.	Name	Type of cable	Outer sheath	Conductor cross- section (AWG)	Velocity of propagation (%)
N10i.004 New	LANmark Industry SF/UTP Cat 6 LSZH+PE 500m reel	SF/UTP	PE	24	68.0
N100.623	LANmark-6 F1/UTP Dual LSZH 500m reel	FTP Shotgun	LSZH	24	68.0
N100.628	LANmark-6 F1/UTP Dual PVC 500m reel	FTP Shotgun	PVC	24	68.0
N100.622	LANmark-6 F1/UTP LSZH 1000m reel	F/UTP	LSZH	24	68.0
N100.624	LANmark-6 F1/UTP LSZH 500m reel	F/UTP	LSZH	24	68.0
N100.627	LANmark-6 F1/UTP PVC 1000m reel	F/UTP	PVC	24	68.0
N100.629	LANmark-6 F1/UTP PVC 500m reel	F/UTP	PVC	24	68.0
N100.603	LANmark-6 F ² /UTP Dual LSZH 500m reel	F ² TP Shotgun	LSZH	24	68.0
N100.613	LANmark-6 F ² /UTP Dual PVC 500m reel	F ² TP Shotgun	PVC	24	68.0
N100.601	LANmark-6 F ² /UTP LSZH 1000m reel	F ² TP	LSZH	24	68.0

LANmark-6 Cable

Nexans ref.	Name	Type of cable	Outer sheath	Conductor cross-section (AWG)	Velocity of propagation (%)
N100.662	LANmark-6 F ² /UTP LSZH 500m reel	F ² TP	LSZH	24	68.0
N100.611	LANmark-6 F ² /UTP PVC 1000m reel	F ² TP	PVC	24	68.0
N100.661	LANmark-6 F ² /UTP PVC 500m reel	F ² TP	PVC	24	68.0
 N100.633	LANmark-6 SF/UTP Dual LSZH 500m reel	SF/UTP Shotgun	LSZH	24	68.0
 N100.631	LANmark-6 SF/UTP LSZH 1000m reel	SF/UTP	LSZH	24	68.0
N100.632	LANmark-6 SF/UTP LSZH 500m reel	SF/UTP	LSZH	24	68.0
N100.609	LANmark-6 U/UTP Dual LSZH 500m reel	U/UTP	LSZH	23	69.0
N100.619	LANmark-6 U/UTP Dual PVC 500m reel	U/UTP	PVC	23	69.0
N100.606	LANmark-6 U/UTP LSZH 1000m reel	U/UTP	LSZH	23	69.0
N100.607	LANmark-6 U/UTP LSZH 305m Box	U/UTP	LSZH	23	69.0
N100.616	LANmark-6 U/UTP PVC 1000m reel	U/UTP	PVC	23	69.0
N100.617	LANmark-6 U/UTP PVC 305m Box	U/UTP	PVC	23	69.0
N100.608	LANmark-6 U/UTP PVC 500m reel	U/UTP	PVC	23	69.0

LANmark-6 Patch Cords

- Complies with the latest Category 6 standards
- Uses Nexans cable technology
- Fully matched with other components for maximum performance
- Unscreened & Screened or Ultim
- LSZH Flame retardant jacket as standard

Description

Application

LANmark-6 patch cords can be used to deliver a full end-to-end Class E solution.

LANmark-6 Ultim cords offer superior performance and deliver an additional 6dB channel ACR headroom. They can also be used for accurate field testing of channel performance. They provide improved data throughput and allows 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

- High Speed Multimedia patch cords

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 and 5m are standard lengths, other lengths are available on demand.
- 15 m is standard length for single end patch cord. Other lengths are available on demand.
- Orange and dark grey are standard.
- Rugged construction.



LANmark-6

Standards

International ISO/IEC 11801

LANmark-6 Patch Cords

Product List

Nexans ref.	Name	Range	Colour	Screen	Length (m)
N10i.E34 New	LANmark Industry IP67-IP20 Industrial Patch Cord RJ45 Cat 6 Screened	LANmark-6	Yellow	Yes	0
N101.224CF	LANmark-6 RJ45 Patch Cord Screened LSZH Grey 1 m	LANmark-6	Grey	Yes	1
N101.224EF	LANmark-6 RJ45 Patch Cord Screened LSZH Grey 2 m	LANmark-6	Grey	Yes	2
N101.224FF	LANmark-6 RJ45 Patch Cord Screened LSZH Grey 3 m	LANmark-6	Grey	Yes	3
N101.224HF	LANmark-6 RJ45 Patch Cord Screened LSZH Grey 5 m	LANmark-6	Grey	Yes	5
N101.224CO	LANmark-6 RJ45 Patch Cord Screened LSZH Orange 1 m	LANmark-6	Orange	Yes	1
N101.224EO	LANmark-6 RJ45 Patch Cord Screened LSZH Orange 2 m	LANmark-6	Orange	Yes	2
N101.224FO	LANmark-6 RJ45 Patch Cord Screened LSZH Orange 3 m	LANmark-6	Orange	Yes	3
N101.224HO	LANmark-6 RJ45 Patch Cord Screened LSZH Orange 5 m	LANmark-6	Orange	Yes	5
N101.214CF	LANmark-6 RJ45 Patch Cord Unscreened LSZH Grey 1 m	LANmark-6	Grey	No	1
N101.214EF	LANmark-6 RJ45 Patch Cord Unscreened LSZH Grey 2 m	LANmark-6	Grey	No	2
N101.214FF	LANmark-6 RJ45 Patch Cord Unscreened LSZH Grey 3 m	LANmark-6	Grey	No	3
N101.214HF	LANmark-6 RJ45 Patch Cord Unscreened LSZH Grey 5 m	LANmark-6	Grey	No	5
N101.214CO	LANmark-6 RJ45 Patch Cord Unscreened LSZH Orange 1 m	LANmark-6	Orange	No	1
N101.214EO	LANmark-6 RJ45 Patch Cord Unscreened LSZH Orange 2 m	LANmark-6	Orange	No	2
N101.214FO	LANmark-6 RJ45 Patch Cord Unscreened LSZH Orange 3 m	LANmark-6	Orange	No	3
N101.214HO	LANmark-6 RJ45 Patch Cord Unscreened LSZH Orange 5 m	LANmark-6	Orange	No	5
 N101.254QO	LANmark-6 RJ45 Single-end Patch Cord Screened LSZH Orange 15 m	LANmark-6	Orange	Yes	
 N101.244QO	LANmark-6 RJ45 Single-end Patch Cord Unscreened LSZH Orange 15 m	LANmark-6	Orange	No	

LANmark-6 10G Snap-In Connector

- Complies to 10GBase-T application standards
- Complies with Category 6A and Class EA channel requirements
- Fully screened for alien crosstalk immunity
- Reduces risk of installation errors for consistent performance
- Compatible with all snap-in hardware
- An adapter can be added to fit the keystone format

Description

Application

LANmark-6 10G consists of screened components specified to frequencies up to 500MHz. They have been designed specifically to support the higher frequencies required for 10 Gigabit Ethernet, yet is fully backwards compatible with today's needs. The LANmark-6 10G EVO connector fits in all structural hardware designed for the EVO snap-in range. In addition to the requirements of the EIA/TIA 568-B.2-1 and ISO/IEC 11801:2002 Category 6, the LANmark-6 10G products are additionally specified to 500MHz and are screened to ensure immunity from Alien Crosstalk and other external interference.

- 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 class E 10G applications

Performance

The LANmark-6 10G EVO Snap-in connector has been designed to reach the highest performance in Cat 6 and Class E up to 500 MHz. It has outstanding performance for attenuation (insertion loss), NEXT/FEXT, Power Sum NEXT/FEXT and Return Loss, exceeding the Cat 6 connector specs as in IEC 60603-7-5.

When used in combination with Nexans LANmark-6 10G cables and LANmark-6 10G Ultim patch cords, and installed according to the guidelines, the system supports the 10GBase-T applications as defined in IEEE 802.3an, ISO/IEC TR 24750 and TIA/EIA TSB-155. Respecting the Nexans LANmark-6 10G design guidelines, the full 100m four-connector channel moreover meets Category 6A and Class EA requirements as defined in TIA/EIA568B.2 Addendum 10 draft 6.0 and ISO/IEC draft amendment 1.1 (as in draft 25N1324) respectively.

Installation



LANmark-6 10G

Standards

International IEEE 802.3an;
ISO/IEC TR 24750;
ISO11801:2002/A1:2008
National TIA/EIA TSB-155;TIA/
EIA-568-B.2-10

LANmark-6 10G Snap-In Connector

The LANmark-6 10G EVO Snap-in connector makes termination easier and quicker thanks to exclusive design of the wire organizer and of the sliding metal EMC rear cover. The LANmark-6 10G EVO snap-in is designed to be terminated with the universal comfort tool. This tool includes also the exclusive extraction mechanism which makes the EVO series snap-in re-usable. A stranded version is available for reliable termination in consolidation point of 3 or 4 connectors channel models. The LANmark-6 10G EVO snap-in range is Nexans technology inside and user friendly outside

- Fast termination with exclusive wire organizer and sliding metal EMC rear cover
- Colour code : T568A & T568B
- Full EMC protection with metal rear cover
- Re-usable with universal comfort tool
- Accepts solid wire from 22 to 24 AWG
- Stranded version available for consolidation point
- Snap-in format fits in all Nexans structural hardware
- 2 possibilities to terminate the drain wire : on the housing or on the rear cover

Guarantees

The LANmark-6 10G EVO Snap-in connector is covered by the guarantee as in The General Terms and Conditions of Sales. When installed in combination with other LANmark-6 10G components, a 25 years channel warranty can be obtained, covering 10GBase-T support in accordance with IEEE 802.3an. Also if following the design guidelines for LANmark-6 10G systems and tested accordingly, a 25 year warranty can be obtained to Category 6A or Class EA requirements.

LANmark-6 10G Snap-In Connector

Characteristics

Usage characteristics

Range

LANmark-6 10G


Electrical Performance LANmark-6 10G 100m 4 connector channel

all values are specified at 20°C

Freq	Attn dB		NEXT dB		PSNEXT dB		ELFEXT dB		PS ELFEXT dB		PS ANEXT dB		PS AELFEXT dB		RL dB	
	Std	Guar	Std	Guar	Std	Guar	Std	Guar	Std	Guar	Std	Guar	Std	Guar	Std	Guar
1	<4	<4	72.7	>75	70.3	74.3	63.3	>60	60.3	>60	82.0	>90	77.9	87.9	19.0	21.0
4	4.2	4.1	63.0	66.0	60.5	64.5	51.2	57.2	48.2	57.2	76.0	>90	65.9	75.9	19.0	21.0
10	6.6	6.5	56.6	59.6	54.0	58.0	43.3	49.3	40.3	49.3	72.0	87.0	57.9	67.9	19.0	21.0
16	8.3	8.2	53.2	56.2	50.6	54.6	39.2	45.2	36.2	45.2	70.0	85.0	53.8	63.8	18.0	20.0
20	9.3	9.2	51.6	54.6	49.0	53.0	37.2	43.2	34.2	43.2	69.0	84.0	51.9	61.9	17.5	19.5
31.25	11.7	11.6	48.4	51.4	45.7	49.7	33.4	39.4	30.4	39.4	67.1	82.1	48.0	58.0	16.5	18.5
62.5	16.9	16.6	43.4	46.4	40.6	44.6	27.3	33.3	24.3	33.3	64.0	79.0	42.0	52.0	14.0	16.0
100	21.7	21.4	39.9	42.9	37.1	41.1	23.3	29.3	20.3	29.3	62.0	77.0	37.9	47.9	12.0	14.0
155	27.6	27.1	36.7	39.7	33.8	37.8	19.5	25.5	16.5	25.5	59.1	74.1	34.1	44.1	10.1	12.1
200	31.7	31.2	34.8	37.8	31.9	35.9	17.2	23.2	14.2	23.2	57.5	72.5	31.9	41.9	9.0	11.0
250	35.9	35.4	33.1	36.1	30.2	34.2	15.3	21.3	12.3	21.3	56.0	71.0	29.9	39.9	8.0	10.0
300	39.8	39.2	31.7	34.7	28.8	32.8	13.7	19.7	10.7	19.7	54.8	69.8	28.4	38.4	7.2	9.2
500	53.4	52.6	22.0	25.0	20.4	24.4	9.3	15.3	6.3	15.3	51.5	66.5	23.9	33.9	6.0	8.0

Guaranteed channel values apply under the condition that General Installation Guidelines from NCS and the Design and Installation Guidelines for LANmark-6 10G are respected and implemented.

Product List

Nexans ref.	Name
N420.666G New	LANmark-6 10G EVO Snap-in connector, screened, for solid wire
 N420.667G New	LANmark-6 10G EVO Snap-in connector, screened, for stranded wire

LANmark-6A Connector

- High bandwidth RJ45 connector to support 10Gigabit Ethernet
- Fully complies to TIA and ISO Cat 6A cabling standards
- Supports extremely short Cat 6A channel configurations needed for datacenters
- Fully screened for alien crosstalk immunity
- Compatible with all Snap-In panels and outlets

Description

Application

LANmark-6A EVO Snap-In Connector is a screened RJ45 cable jack specified up to 500MHz. It is designed specifically to support the high frequencies required for 10 Gigabit Ethernet, but is also fully backwards-compatible with lower frequency applications using the RJ45 interface. LANmark-6A EVO uses a fully closed rear cover, which provides 360° screening and excellent coupling attenuation to ensure immunity from alien crosstalk and other external interference. Cabling channels with LANmark-6A cable jack have not to be verified on site for Alien Crosstalk, as this new 10G parameter is met by design. This reduces significantly the cost for 10G networking.

- 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
- all future Cat 6A and Class EA applications

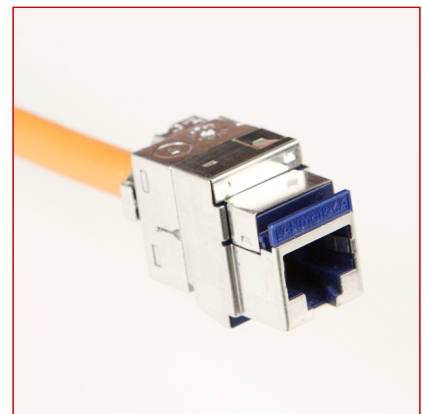
Performance

The LANmark-6A EVO has outstanding electrical performance up to 500MHz especially for NEXT/FEXT, Power Sum NEXT/FEXT, Return Loss and all screening parameters. This enables to achieve high performing Cat 6A channels as well as very short link and channel configurations needed in data centres with up to 3 connection points within 12 meters.

Installation

LANmark-6A EVO makes use of Nexans wire organiser and is therefore very easy and fast to terminate. Using the Nexans comfort tool installation tool EVO Snap-In series is re-usable. A stranded version is available to allow the use of flexible stranded cable in cross connects or consolidation point.

The LANmark-6A EVO fits in all structural hardware designed for the EVO Snap-In range and can used in all positions of a 4 connector twisted pair cabling channel (PP, CC, CP, TO).



LANmark-6A

Standards

International EN 50173-1;EN 50173-3;IEC 60603-7-5; ISO11801:2002/A1:2008
National TIA/EIA-568-B.2-10

LANmark-6A Connector

- Fast termination with exclusive wire organizer and hinging metal EMC rear cover
- Colour code : T568A & T568B
- 360° EMC protection
- Re-usable with universal comfort tool
- Accepts solid wire from 22 to 24 AWG
- Stranded version available for consolidation point
- Snap-in format fits in all Nexans structural hardware
- 2 possibilities to terminate the drain wire : on the housing or on the rear cover
- Can be turned into keystone format using an additional adapter

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

LANmark-6A Connector

Electrical Performance LANmark-6A 4 Connector Channel Part 1

"All values are based on Worst Case 4 Connector Channel configurations according ISO11801:2008 AM1
Minimal and maximum values represent guaranteed channel performance"

Freq in MHz	Attn in dB		NEXT in dB			PSNEXT in dB			ACR-F in dB	
	Max	Typ	Std	Min	Typ	Std	Min	Typ	Std	Typ
1	<4	4.0	65.0	67.0	85.0	62.0	64.0	74.8	63.3	69.9
4	4.1	4.1	63.0	65.0	72.9	60.5	62.5	65.0	51.2	57.9
10	6.4	6.3	56.6	58.6	65.0	54.0	56.0	58.5	43.3	49.9
16	8.1	8.0	53.2	55.2	60.9	50.6	52.6	55.1	39.2	45.9
20	9.1	9.0	51.6	53.6	59.0	49.0	51.0	53.5	37.2	43.9
31.25	11.4	11.2	48.4	50.4	55.1	45.7	47.7	50.2	33.4	40.0
62.5	16.3	15.9	43.4	45.4	49.1	40.6	42.6	45.1	27.3	34.0
100	20.8	20.2	39.9	41.9	45.0	37.1	39.1	41.6	23.3	29.9
155	26.2	25.4	36.7	38.7	41.2	33.8	35.8	38.3	19.5	26.1
200	30.0	28.9	34.8	36.8	39.0	31.9	33.9	36.4	17.2	23.9
250	33.8	32.5	33.1	35.1	37.0	30.2	32.2	34.7	15.3	22.0
300	37.3	35.7	31.7	33.7	35.4	28.8	30.8	33.3	13.7	20.4
500	49.3	46.7	27.9	29.9	31.0	24.8	26.8	24.9	9.3	16.0

*Standard values based on ISO11801:2002/A1:2008 ClassEA

Electrical Performance LANmark-6A 4 Connector Channel Part 2

All values are based on Worst Case 4 Connector Channel configurations according ISO11801:2008 AM1
Minimal and maximum values represent guaranteed channel performance

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	8.0	10.0	13.2
500	6.3	13.0	49.5	64.5	66.5	23.0	38.0	40.0	8.0	10.0	11.0

*Standard values based on ISO11801:2002/A1:2008 ClassEA

LANmark-6A Connector

Product List

Nexans ref.	Name
N420.66A New	LANmark-6A Snap-In Connector Cat 6A 500MHz Screened
N420.67A New	LANmark-6A Snap-In Connector Cat 6A 500MHz Screened for stranded wire

LANmark-6A Cable

- Ideal Cable for 10GBase-T application
- Complies fully with new standards for Category 6A and Class EA
- Small diameter
- Guaranteed performance up to 500MHz
- Fully screened for alien crosstalk immunity

Description

Application

LANmark-6A cable is the ideal solution for a 10 Gigabit Ethernet network. The range consists of cables which have been designed specifically to support the higher frequencies required for 10 Gigabit Ethernet, while maintain to be fully backwards compatible with today's needs. All LANmark-6A products are screened cables to ensure immunity from Alien Crosstalk and other external interference and are specified up to frequencies of 500MHz.

- 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 provide guaranteed headroom and bandwidth over and above the Category 6A requirements of international, european and american cable standards, including of IEC 61156-5, EN 50173, EN 50288, TIA/EIA 568-B.2-1 Ad.10. 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 the full 100m four-connector links and channels meet Category 6A and Class EA requirements as defined in TIA/EIA568B.2 Addendum 10 and ISO/IEC11801 2002/A1:2008.

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.

Guarantees

Nexans LANmark-6A 10G cable is covered by a parts and labour warranty as described in the Nexans Certified System Warranty. When installed in combination with other LANmark-6A 10G components, a 25 year channel warranty can be obtained.



LANmark-6A

Standards

International EN 50288-4-1;
IEC 61156-5;IEEE 802.3an;ISO/
IEC TR24750;ISO11801:2002/
A1:2008

National TIA/EIA TSB-155;TIA/
EIA-568-B.2-10

LANmark-6A Cable

Product List

Nexans ref.	Name	Outer sheath
N100.693G	LANmark-6A F/FTP Cat 6A 500MHz Dual LSZH 500m reel	LSZH
 N100.698G	LANmark-6A F/FTP Cat 6A 500MHz Dual PVC 500m reel	PVC
N100.692G	LANmark-6A F/FTP Cat 6A 500MHz LSZH 1000m reel	LSZH
N100.694G	LANmark-6A F/FTP Cat 6A 500MHz LSZH 500m reel	LSZH
 N100.697G	LANmark-6A F/FTP Cat 6A 500MHz PVC 1000m reel	PVC
 N100.699G	LANmark-6A F/FTP Cat 6A 500MHz PVC 500m reel	PVC
N100.623G	LANmark-6A F1/UTP Cat 6A 500MHz Dual LSZH 500m reel	LSZH
N100.622G	LANmark-6A F1/UTP Cat 6A 500MHz LSZH 1000m reel	LSZH
N100.624G	LANmark-6A F1/UTP Cat 6A 500MHz LSZH 500m reel	LSZH

LANmark-6A Patch Cords

- High speed RJ45 patch cord to run 10GBase-T
- Frequency range up to 500MHz
- Complies to Cat 6A in as defined in TIA568B.2-10
- Fully screened for Alien Crosstalk immunity
- Uses Nexans stranded U/FTP cable technology

Description

Application

LANmark-6A Ultim cords are developed to support the 10 Gigabit Ethernet application (IEEE 802.3an), offer superior performance up to 500MHz and exceed the Category 6A requirements. They provide improved data throughput and allow for the inclusion of Cross-Connects or Consolidation Points into the channel configuration. Ultim cords use stranded cable and as such provide maximum system flexibility at CC and CP. 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-6A Ultim cords can also be used for accurate field testing of Cat 6A cabling channels due to their mechanical stability.

Performance

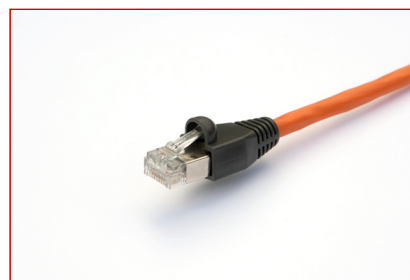
The LANmark-6A Ultim cords fully comply and exceed the requirements of EIA/TIA-568-B.2-10 and enable to achieve high performing Cat 6A channels. Used with other LANmark-6A components, very short Cat 6A link and channel configurations with up to 3 connection points within 10 meters can be supported.

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.

Installation

- The cords are by design fully Alien Crosstalk compliant as in IEEE 802.3an so no special installation rules need to be taken into account for ANEXT and AFEXT compliance.
- 1, 2, 3 and 5m are standard lengths; other lengths are available on demand.
- 10 m is standard length for single-end patchcord; other lengths are available on demand.
- Orange and Dark Grey are standard colors other colors are available on demand.
- Rugged construction: external strain relief.



LANmark-6A

Standards

International IEEE 802.3an;
ISO/IEC TR 24750;
ISO11801:2002/A1:2008
National TIA/EIA TSB-155;TIA/
EIA-568-B.2-10

Characteristics

Usage characteristics

Range

LANmark-6A

LANmark-6A Patch Cords

Electrical Performance LANmark-6A 4 Connector Channel Part 1

"All values are based on Worst Case 4 Connector Channel configurations according ISO11801:2008 AM1
Minimal and maximum values represent guaranteed channel performance"

Freq in MHz	Attn in dB		NEXT in dB			PSNEXT in dB			ACR-F in dB	
	Max	Typ	Std	Min	Typ	Std	Min	Typ	Std	Typ
1	<4	4.0	65.0	67.0	85.0	62.0	64.0	74.8	63.3	69.9
4	4.1	4.1	63.0	65.0	72.9	60.5	62.5	65.0	51.2	57.9
10	6.4	6.3	56.6	58.6	65.0	54.0	56.0	58.5	43.3	49.9
16	8.1	8.0	53.2	55.2	60.9	50.6	52.6	55.1	39.2	45.9
20	9.1	9.0	51.6	53.6	59.0	49.0	51.0	53.5	37.2	43.9
31.25	11.4	11.2	48.4	50.4	55.1	45.7	47.7	50.2	33.4	40.0
62.5	16.3	15.9	43.4	45.4	49.1	40.6	42.6	45.1	27.3	34.0
100	20.8	20.2	39.9	41.9	45.0	37.1	39.1	41.6	23.3	29.9
155	26.2	25.4	36.7	38.7	41.2	33.8	35.8	38.3	19.5	26.1
200	30.0	28.9	34.8	36.8	39.0	31.9	33.9	36.4	17.2	23.9
250	33.8	32.5	33.1	35.1	37.0	30.2	32.2	34.7	15.3	22.0
300	37.3	35.7	31.7	33.7	35.4	28.8	30.8	33.3	13.7	20.4
500	49.3	46.7	27.9	29.9	31.0	24.8	26.8	24.9	9.3	16.0

*Standard values based on ISO11801:2002/A1:2008 ClassEA

Electrical Performance LANmark-6A 4 Connector Channel Part 2




All values are based on Worst Case 4 Connector Channel configurations according ISO11801:2008 AM1
Minimal and maximum values represent guaranteed channel performance

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	8.0	10.0	13.2
500	6.3	13.0	49.5	64.5	66.5	23.0	38.0	40.0	8.0	10.0	11.0

*Standard values based on ISO11801:2002/A1:2008 ClassEA

LANmark-6A Patch Cords

Product List

Nexans ref.	Name	Length (m)	Colour	Screen
 N101.D2GHO	LANmark-6A ULTIM mixed bundled Patch Cord	5	Orange	Yes
 N101.22GEF	LANmark-6A Ultim Patch Cord Cat 6A 500MHz RJ45 LSZH Grey 2m	2	Grey	Yes
 N101.22GFF	LANmark-6A Ultim Patch Cord Cat 6A 500MHz RJ45 LSZH Grey 3m	3	Grey	Yes
 N101.22GHF	LANmark-6A Ultim Patch Cord Cat 6A 500MHz RJ45 LSZH Grey 5m	5	Grey	Yes
N101.22GEO	LANmark-6A Ultim Patch Cord Cat 6A 500MHz RJ45 LSZH Orange 2m	2	Orange	Yes
N101.22GFO	LANmark-6A Ultim Patch Cord Cat 6A 500MHz RJ45 LSZH Orange 3m	3	Orange	Yes
N101.22GHO	LANmark-6A Ultim Patch Cord Cat 6A 500MHz RJ45 LSZH Orange 5m	5	Orange	Yes
 N101.25GOF	LANmark-6A Ultim Single ended Patch Cord Cat 6A 500MHz RJ45 LSZH Grey 10m	10	Grey	Yes
 N101.25GOO	LANmark-6A Ultim Single ended Patch Cord Cat 6A 500MHz RJ45 LSZH Orange 10m	10	Orange	Yes

Essential-6 Cable

- Unshielded construction
- Complies to the latest Category 6 standards
- Central cross maintains geometry and performance
- Supports Class E applications up to 250 MHz.

Description

Application

The Nexans Essential-6 cables are manufactured and tested to the latest Category 6 specifications. They are compatible with the complete Essential-6 modular and PCB connectivity range. When the cable is installed in conjunction with Essential-6 outlets and patch panels, a 25 year Class E Link Certificate can be obtained from the Nexans website.

Design

The conductors are 24 AWG solid copper wires complying with IEC 60228. The PE central cross filler keeps the pairs in place and reduces the risks of losing performance when bending the cable. The cable is available with a Light Grey PVC or an Orange LSZH outer jacket.

Performance

Nexans Essential-6 cables are compliant with the requirements of the TIA 568-B.2-1 and ISO/IEC 11801:2002.

Installation

Thanks to their small nominal outer diameter, the Essential-6 cables are as easy to install as their Cat 5e equivalent.



essential-6

Standards

International ISO/IEC 11801
National TIA/EIA-568-B.2

Essential-6 Cable

Characteristics

Usage characteristics

Range

essential-6

Channel Performance

Values given for 2-connector channel, built with Essential-6 cable, outlet and patch panel.

Frequency MHz	Insertion Loss dB/100m	NEXT PP dB	PS NEXT dB	ACR dB/100m	PS ACR dB/100m	ELFEXT dB/100m	PSELFEXT dB/100m	Return Loss dB
1	4.0	65.0	62.0	65.0	62.0	63.3	60.3	19.0
4	4.2	63.0	60.5	58.9	56.4	51.2	48.2	19.0
10	6.6	56.6	54.0	50.0	47.4	43.3	40.3	19.0
16	8.3	53.2	50.6	44.9	42.3	39.2	36.2	18.0
20	9.3	51.6	49.0	42.3	39.7	37.2	34.2	17.5
31.25	11.7	48.4	45.7	36.7	34.0	33.4	30.4	16.5
62.5	16.9	43.4	40.6	26.5	23.7	27.3	24.3	14.0
100	21.7	39.9	37.1	18.2	15.4	23.3	20.3	12.0
155	27.6	36.7	33.8	9.1	6.2	19.5	16.5	10.1
200	31.7	34.8	31.9	3.1	0.1	17.2	14.2	9.0
250	35.9	33.1	30.2	-2.8	-5.8	15.3	12.3	8.0

All values are specified at 20°C.

Product List

Nexans ref.	Name	Type of cable	Outer sheath
N100.161 New	Essential-6 U/UTP Cat 6 LSZH 305m box	U/UTP	LSZH
N100.164 New	Essential-6 U/UTP Cat 6 LSZH 500m reel	U/UTP	LSZH
N100.166 New	Essential-6 U/UTP Cat 6 PVC 305m box	U/UTP	PVC
N100.169 New	Essential-6 U/UTP Cat 6 PVC 500m reel	U/UTP	PVC

Essential-6 Keystone Connector

- Complies to the latest Category 6 standards
- Easy termination without punchdown tool
- Keystone format.

Description

Application

The Nexans Essential-6 keystone connectors are manufactured and tested to the latest Category 6 specifications. They support Class E applications up to 250 MHz. When installed in conjunction with Essential-6 cable and patch panels, a 20 year Class E Link Certificate can be obtained from the Nexans web site.

Design

The Essential-6 keystone connectors are designed to match with Essential-6 cable and patch cords and all Essential-6 modular components, such as empty keystone patch panels (N521.660 : white and N521.660BK : black) and keystone faceplates, available in both UK and European format (25x50mm : N423.650 and 22.5x45mm : N423.645).

The modular jack is designed for keystone footprints of 14.78mm width, 20-20.78mm height and 1.5mm wall thickness and therefore fits into a variety of keystone formatted structural hardware available on the market. (Please check compatibility with Nexans before using 3rd party hardware)

The Essential-6 connectors can be used with all types of Category 6 cable with solid wire from 22 to 24 AWG.

Performance

The Essential-6 keystone connectors are compliant with the specifications of ISO/IEC 11801: 2002.

Installation

The wire organiser guarantees fast and easy termination of the Essential-6 keystone connector without the need for a punchdown tool. An optional comfort tool (N420.567) can be used to increase the ease of installation.

- Fast and easy termination without punchdown tool.
- Wiring according to colour code T568B or T568A.
- Accepts 24, 23 and 22 AWG cables.
- Fits Nexans hardware designed for 'keystone' format



essential-6

Standards

International ISO/IEC 11801

Essential-6 Keystone Connector

Channel Performance

Values given for 2-connector channel, built with Essential-6 cable, outlet and patch panel.

Frequency MHz	Insertion Loss dB/100m	NEXT PP dB	PS NEXT dB	ACR dB/100m	PS ACR dB/100m	ELFEXT dB/100m	PSELFEXT dB/100m	Return Loss dB
1	4.0	65.0	62.0	65.0	62.0	63.3	60.3	19.0
4	4.2	63.0	60.5	58.9	56.4	51.2	48.2	19.0
10	6.6	56.6	54.0	50.0	47.4	43.3	40.3	19.0
16	8.3	53.2	50.6	44.9	42.3	39.2	36.2	18.0
20	9.3	51.6	49.0	42.3	39.7	37.2	34.2	17.5
31.25	11.7	48.4	45.7	36.7	34.0	33.4	30.4	16.5
62.5	16.9	43.4	40.6	26.5	23.7	27.3	24.3	14.0
100	21.7	39.9	37.1	18.2	15.4	23.3	20.3	12.0
155	27.6	36.7	33.8	9.1	6.2	19.5	16.5	10.1
200	31.7	34.8	31.9	3.1	0.1	17.2	14.2	9.0
250	35.9	33.1	30.2	-2.8	-5.8	15.3	12.3	8.0

All values are specified at 20°C.

Product List

Nexans ref.	Name
N420.116	
New	Essential-6 keystone connector unscreened

Essential-6 Patch Cords

- Complies to the latest Category 6 standard
- Light grey PVC
- Unshielded
- Black moulded strain relief boot
- 1, 2, 3 and 5m lengths

Description

Application

The Nexans Essential-6 patch cords are manufactured and tested to the latest Category 6 specifications and support Class E applications up to 250 MHz. They are matched to be compatible with the complete Essential-6 modular and PCB range in order to deliver a full end-to-end Class E system.

Design

The Essential-6 patch cords contain, in accordance with the Essential-6 cable, a central PE cross member, keeping the pairs in place and reducing the risk of losing performance when bending the cords. Standard available lengths are 1, 2, 3 and 5m. Each cord is individually bagged and carries a traceability code.

Performance

The Essential-6 cords are compliant with the specifications of ISO/IEC 11801:2002.

Installation

Thanks to their small nominal outer diameter, the Essential-6 cords are as easy to install and manage in a rack as their Cat 5e equivalent.



essential-6

Standards

International ISO/IEC 11801



Flame retardant
IEC 60332-1

Essential-6 Patch Cords

Characteristics

Construction characteristics	
Outer sheath	PVC
Dimensional characteristics	
Nominal outer diameter	6.35 mm
Electrical characteristics	
Characteristic impedance	100 Ohm
Usage characteristics	
Range	essential-6
Flame retardant	IEC 60332-1

Channel Performance

Values given for 2-connector channel, built with Essential-6 cable, outlet and patch panel.

Frequency MHz	Insertion Loss dB/100m	NEXT PP dB	PS NEXT dB	ACR dB/100m	PS ACR dB/100m	ELFEXT dB/100m	PSELFEXT dB/100m	Return Loss dB
1	4.0	65.0	62.0	65.0	62.0	63.3	60.3	19.0
4	4.2	63.0	60.5	58.9	56.4	51.2	48.2	19.0
10	6.6	56.6	54.0	50.0	47.4	43.3	40.3	19.0
16	8.3	53.2	50.6	44.9	42.3	39.2	36.2	18.0
20	9.3	51.6	49.0	42.3	39.7	37.2	34.2	17.5
31.25	11.7	48.4	45.7	36.7	34.0	33.4	30.4	16.5
62.5	16.9	43.4	40.6	26.5	23.7	27.3	24.3	14.0
100	21.7	39.9	37.1	18.2	15.4	23.3	20.3	12.0
155	27.6	36.7	33.8	9.1	6.2	19.5	16.5	10.1
200	31.7	34.8	31.9	3.1	0.1	17.2	14.2	9.0
250	35.9	33.1	30.2	-2.8	-5.8	15.3	12.3	8.0

All values are specified at 20°C.

Product List

Nexans ref.	Name	Screen	Length (m)	Colour	Category
N101.11ECG New	Essential-6 Patch Cord UTP Cat 6 PVC grey 1m	Unshielded	1	Light grey	Cat. 6
N101.11EEG New	Essential-6 Patch Cord UTP Cat 6 PVC grey 2m	Unshielded	2	Light grey	Cat. 6
N101.11EFG New	Essential-6 Patch Cord UTP Cat 6 PVC grey 3m	Unshielded	3	Light grey	Cat. 6
N101.11EHG New	Essential-6 Patch Cord UTP Cat 6 PVC grey 5m	Unshielded	5	Light grey	Cat. 6

Essential-6 Outlet Modules

- Complies to the latest Category 6 standards
- Includes 25x50, LJ6C and 50x50 triple modules
- Unshielded
- LSA+ termination
- UK white
- Fits in all Nexans UK structural hardware

Description

Application

The Nexans Essential-6 unshielded outlet modules are manufactured and tested to the latest Category 6 specifications. They support Class E applications up to 250 MHz. When installed in conjunction with Essential-6 cable and patch panels, a 20 year Class E Link Certificate can be obtained from the Nexans e-service site.

Design

The Essential-6 outlet modules are compatible with the complete Essential-6 range and fit into all Nexans UK structural hardware. They can be used with all types of UTP Category 6 cable with solid wire from 22 to 24 AWG. The spring shuttered modules come in glossy white finish, matching with most British style structural hardware. They are available in different versions:

- single module 25x50mm
- triple module 50x50mm
- LJ6C module 25x37mm

The modules are equipped with transparent label holders fitted with a blank paper label for customised port identification.

Performance

The Essential-6 outlet modules are compliant with the specifications of ISO/IEC 11801: 2002.

Installation

- Fast and easy termination by LSA+ punch-down tooling.
- Wiring according to colour code T568B.
- Centrally positioned tie wrap bridges ensure cable strain relief.
- Supplied with tie wraps.
- Labelling windows included.
- Fits in all Nexans UK structural hardware



essential-6

Standards

International ISO/IEC 11801

Essential-6 Outlet Modules

Channel Performance

Values given for 2-connector channel, built with Essential-6 cable, outlet and patch panel.

Frequency MHz	Insertion Loss dB/100m	NEXT PP dB	PS NEXT dB	ACR dB/100m	PS ACR dB/100m	ELFEXT dB/100m	PSELFEXT dB/100m	Return Loss dB
1	4.0	65.0	62.0	65.0	62.0	63.3	60.3	19.0
4	4.2	63.0	60.5	58.9	56.4	51.2	48.2	19.0
10	6.6	56.6	54.0	50.0	47.4	43.3	40.3	19.0
16	8.3	53.2	50.6	44.9	42.3	39.2	36.2	18.0
20	9.3	51.6	49.0	42.3	39.7	37.2	34.2	17.5
31.25	11.7	48.4	45.7	36.7	34.0	33.4	30.4	16.5
62.5	16.9	43.4	40.6	26.5	23.7	27.3	24.3	14.0
100	21.7	39.9	37.1	18.2	15.4	23.3	20.3	12.0
155	27.6	36.7	33.8	9.1	6.2	19.5	16.5	10.1
200	31.7	34.8	31.9	3.1	0.1	17.2	14.2	9.0
250	35.9	33.1	30.2	-2.8	-5.8	15.3	12.3	8.0

All values are specified at 20°C.

Product List

Nexans ref.	Name
N424.623 New	Essential-6 LJ6C outlet module 25x39.5mm
N424.621 New	Essential-6 single outlet module 25x50mm
N424.622 New	Essential-6 triple outlet module 50x50mm

Essential-6 Patch Panels

- Complies to the latest Category 6 standard
- Punchdown from the top or the rear side
- Unshielded

Description

Application

The Nexans Essential-6 patch panels are based on 19" frame dimensions and have 24 Category 6 RJ45 ports on 1HU. They support Class E applications up to 250 MHz. When the panels are installed in conjunction with Essential-6 cable and outlets, a 20 year Class E Link Certificate can be obtained from the Nexans e-service site.

Design

The Essential-6 patch panels are compatible with the complete Essential-6 range and can be used with all types of UTP Category 6 cable with solid wire from 22 to 24 AWG. The panels are available in either black or grey-white finish.

Performance

The Essential-6 patch panels are compliant with the specifications of ISO/IEC 11801:2002.

Installation

- Fast and easy termination of IDC blocks by LSA+ punchdown tooling.
- Colour code T568A and T568B (Product dependent).
- Supplied with fixings and tie-wraps.



Standards

International ISO/IEC 11801

Essential-6 Patch Panels

Channel Performance

Values given for 2-connector channel, built with Essential-6 cable, outlet and patch panel.

Frequency MHz	Insertion Loss dB/100m	NEXT PP dB	PS NEXT dB	ACR dB/100m	PS ACR dB/100m	ELFEXT dB/100m	PSELFEXT dB/100m	Return Loss dB
1	4.0	65.0	62.0	65.0	62.0	63.3	60.3	19.0
4	4.2	63.0	60.5	58.9	56.4	51.2	48.2	19.0
10	6.6	56.6	54.0	50.0	47.4	43.3	40.3	19.0
16	8.3	53.2	50.6	44.9	42.3	39.2	36.2	18.0
20	9.3	51.6	49.0	42.3	39.7	37.2	34.2	17.5
31.25	11.7	48.4	45.7	36.7	34.0	33.4	30.4	16.5
62.5	16.9	43.4	40.6	26.5	23.7	27.3	24.3	14.0
100	21.7	39.9	37.1	18.2	15.4	23.3	20.3	12.0
155	27.6	36.7	33.8	9.1	6.2	19.5	16.5	10.1
200	31.7	34.8	31.9	3.1	0.1	17.2	14.2	9.0
250	35.9	33.1	30.2	-2.8	-5.8	15.3	12.3	8.0

All values are specified at 20°C.

Product List

Nexans ref.	Name
N424.610 New	Essential-6 Patch panel 1HU 24 Cat 6 ports, rear connection, black
N424.613 New	Essential-6 Patch panel 1HU 24 Cat 6 ports, top connection, black

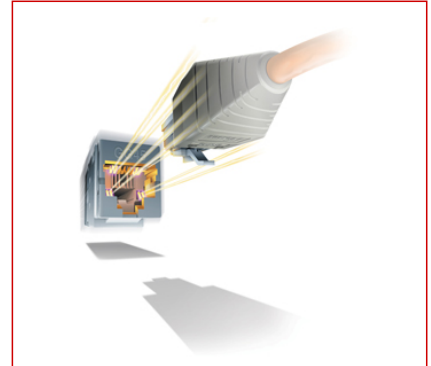
Category 7 / 7A

LANmark-7 and LANmark-7A are the highest performance standards compliant, copper solutions available in the market. Both solutions provide backwards compatible performance beyond 600MHz and feature the revolutionary "2-in-1" GG45 connector from Nexans.

The LANmark-7A system provides bandwidth up to 1000MHz and a Shannon Capacity of more than 40Gbps over the full 100m channel.

Recommended uses:

- Data Centers which prepare for Video on Demand Services and 40G Server Interfaces
- Very long lifetime needs (>15years)
- Composite analogue & high speed digital data
- Multiple service applications (voice, data, video using different pairs in the same cable)
- Very high electromagnetic noise environments
- Installations where the replacement cost is very high (e.g. ships etc)



LANmark-7A Connector

LANmark-7A GG45

- First RJ45-compatible Cat 7A connector using Nexans unique GG45 interface
- Able to support future 40Gigabit Ethernet application
- Able to provide Shannon Capacity of 50Gbps over 100m
- Full Class FA channel compliancy according to ISO11801 Amendment 1
- Fully screened for Alien Crosstalk Immunity
- "2 in 1" Connector using 12 contacts to run 2 separate transmission modes
- Compatible with all Snap-In panels and outlets

Description

Description

LANmark-7A GG45 is a screened RJ45-compatible cable jack specified up to 1000MHz. It is designed specifically to support the high frequencies required for applications beyond 10 Gigabit Ethernet. Combined with LANmark7A Cable and Patch Cords, LANmark-7A GG45 has double the frequency range and half of the crosstalk compared to Cat6A and provides excellent transmission capacity up to 50Gbps over 100m (4-times of Cat6A). LANmark-7A GG45 uses 12 contacts: 8 contacts for the 1200MHz transmission (GG-mode) and 4 additional contacts to ensure RJ45 compatibility (RJ Mode). Thanks to its 360° screening and a fully closed rear cover, the connector allows excellent coupling attenuation and ensures immunity from alien crosstalk and other external interference. The LANmark-7A GG45 connector fits in all structural hardware designed for the Snap-In Connectors and can be used in all positions of a 4 connector twisted pair cabling channel (PP, CC, CP, TO).

Applications

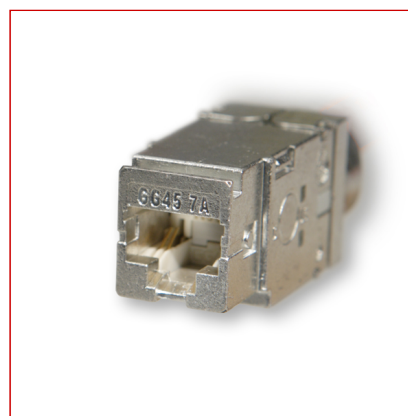
- 10Base-T Ethernet
- 100Base-TX Fast Ethernet
- 1000Base-TX Gigabit Ethernet
- 10GBase-T 10 Gigabit Ethernet IEEE 802.3
- 155 Mbit ATM
- 1.2 Gbit ATM
- CATV up to 862MHz
- all future Cat 6A and Class EA applications
- all future Cat 7 and Class F applications
- all future Cat 7 and Class FA applications

Performance

The LANmark-7A GG45 12C Snap-In Connector is the first RJ45 compatible which meets the stringent requirements of Cat 7A up to 1000MHz. It has outstanding performance for Insertion Loss, Return Loss, NEXT/FEXT, Power Sum NEXT/FEXT, and especially Alien Crosstalk.

When used in combination with Nexans LANmark-7A cables and LANmark-7A patch cords, the four-connector channel meets Class FA requirements as defined in ISO/IEC11801 amendment 1.

Installation



LANmark-7A

Standards

International EN 50173-1;IEC 60603-7-5;ISO/IEC 11801

LANmark-7A Connector

The LANmark-7A GG45 12C Snap-In Connector makes use of Nexans wire organiser and is therefore very easy and fast to terminate. Using the Nexans patented Easy Termination Tool for GG45 the termination of GG45 is fool-proof and very reliable. A stranded version is available to allow the use of flexible stranded cable in cross connects or consolidation points.

- Fast termination with exclusive wire organizer
- Colour code : T568A & T568B
- 360° EMC protection
- Accepts solid wire from 22 to 24 AWG
- Stranded version available for consolidation point
- Snap-in format fits in all Nexans structural hardware
- 2 possibilities to terminate the drain wire : on the housing or on the rear cover
- Can be turned into keystone format using additional adapter

Guarantees

The LANmark-7A GG45 12C Snap-In Connector is covered by the guarantee as described in "The General Terms and Conditions of Sales". When installed in combination with other LANmark-7A components, a 25 years channel warranty can be obtained, covering full Cat 7A/Class FA compliance.

LANmark-7A Connector

Electrical Performance LANmark-7A

Typical Data given for Worst Case 4-Connector Channel Configurations

Frequency (in MHz)	Attenuation (in dB)		NEXT pp (in dB)		ACR-F (in dB)		RL (in dB)		Coupling Att. (in dB)		PSANEXT (in dB)		PSAFEXT (in dB)	
	Max	Typical	Min	Typical	Min	Typical	Min	Typical	Min	Typical	Min	Typical	Min	Typical
1	4.0	3.6	65.0	104.8	65.0	70.0	19.0	38.0	80.0	106.0	67.0	82.0	80.0	95.0
4	4.1	3.7	65.0	94.6	65.0	70.0	19.0	32.0	68.0	94.0	67.0	82.0	79.8	94.8
10	6.4	5.7	65.0	87.8	65.0	70.0	19.0	28.0	60.0	86.0	67.0	82.0	75.9	90.9
16	8.0	7.2	65.0	84.2	63.3	68.3	18.0	26.0	55.9	81.9	67.0	82.0	73.9	88.9
20	9.0	8.1	65.0	82.5	61.4	66.4	17.5	25.0	54.0	80.0	67.0	82.0	72.9	87.9
31.25	11.2	10.1	65.0	79.1	57.5	62.5	16.5	23.1	50.1	76.1	67.0	82.0	71.0	86.0
62.5	15.9	14.3	65.0	73.7	51.5	56.5	14.0	20.0	44.1	70.1	67.0	82.0	68.0	83.0
100	20.3	18.2	65.0	70.0	47.4	52.4	12.0	18.0	40.0	66.0	67.0	82.0	65.9	80.9
155	25.4	22.8	63.0	66.6	43.6	48.6	10.1	16.1	36.2	62.2	67.0	82.0	63.9	78.9
200	28.9	26.0	60.9	64.6	41.4	46.4	9.0	15.0	34.0	60.0	67.0	82.0	62.8	77.8
250	32.5	29.2	59.1	62.8	39.4	44.4	8.0	14.0	32.0	58.0	67.0	82.0	61.8	76.8
300	35.7	32.1	57.7	61.3	37.8	42.8	8.0	13.2	30.5	56.5	67.0	82.0	60.9	75.9
500	46.7	42.0	53.6	57.2	33.4	38.4	8.0	11.0	26.0	52.0	64.5	79.5	58.6	73.6
600	51.4	46.3	52.1	55.8	31.8	36.8	8.0	10.2	24.4	50.4	63.3	78.3	57.8	72.8
700	55.8	50.2	50.8	54.5	30.5	35.5	7.5	9.5	23.1	49.1	62.3	77.3	57.1	72.1
800	59.9	53.9	49.7	53.5	29.3	34.3	7.0	9.0	21.9	47.9	61.5	76.5	56.4	71.4
900	63.8	57.5	48.8	52.5	28.3	33.3	6.5	8.5	20.9	46.9	60.7	75.7	55.9	70.9
1000	67.6	60.8	47.9	51.6	27.4	32.4	6.0	8.0	20.0	46.0	60.0	75.0	55.4	70.4

all values are specified at 20°C

Product List

Nexans ref.	Name	Height (mm)	Width (mm)	Depth (mm)
N420.735	LANmark-7A GG45 12C Snap-In Connector Cat 7A 1000MHz Screened	19.5	17	41.4
N420.736	LANmark-7A GG45 12C Snap-In Connector Cat 7A 1000MHz Screened for stranded wire	19.5	17	41.4

LANmark-7A Cable

- Exceeds Category 7A in terms of ACR and Frequency Range
- Suitable for channels with capacity above 40GBps over 100m
- Superior Performance with positive ACR over the full frequency range
- Optimised for use with LANmark-7A GG45 connector
- Easy to install with Cat 7 connectivity through special foil construction

Description

Description

LANmark-7A is a 4 pair S/FTP cable with individual pair foils and an overall braid offering superior performance up to 1200MHz. It is fully compliant with the new Category 7A standard and offers even large headroom above the Cat 7A requirement. Due to this excellent electrical performance and positive ACR up to 1000 / 1200MHz the cable is suited for transmission channels with a capacity of >40Gbps over 100m.

Application

LANmark-7A is the highest performing standardised cabling solution in the market and will support all current data applications and all planned applications using cabling up to Class FA (see discussions at IEEE about 40/100Gbps).

- All Ethernet applications including
- 10/100/1000Base-T
- 1000Base-TX
- 10GBase-T
- CaTV up to 862MHz
- Cable sharing applications including CATV
- 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.



LANmark-7A

Standards

International EN 50173;EN 50288-4-1;ISO/IEC 11801;ISO/IEC 61156-5

LANmark-7A Patch Cord

LANmark-7A GG45 Patchcords

- High bandwidth patch cord for 40 Gigabit applications and beyond
- Runs the GG45 '2in1' Connector in its high speed GG-Mode
- Both Sides use GG45 8 Contact Plugs up to 1000 MHz according IEC61076-3-110
- Allow full 4-connector Class FA channels
- Compatible with High Density requirements in Data Centres

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 RJ45 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.

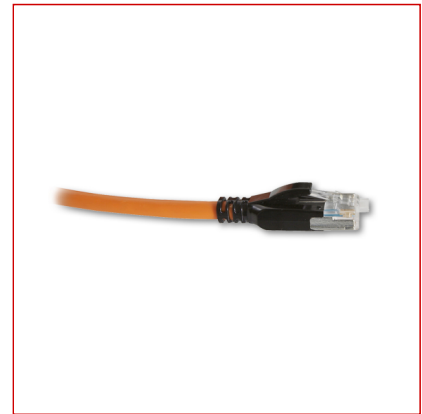
- High Speed patch cords
- Screened
- 2 x GG45 8C 4-pair

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

- Look and Feel of a RJ45 plug (just using different contact positions)
- 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
- Orange color, different colors available on request
- 1, 2, 3 and 5m lengths, others lengths available on request



LANmark-7A

Standards

International ISO/IEC 11801

LANmark-7A Patch Cord

Characteristics

Construction characteristics

Colour

Orange

Electrical Performance LANmark-7A

Typical Data given for Worst Case 4-Connector Channel Configurations

Frequency (in MHz)	Attenuation (in dB)		NEXT pp (in dB)		ACR-F (in dB)		RL (in dB)		Coupling Att. (in dB)		PSANEXT (in dB)		PSAFEXT (in dB)	
	Max	Typical	Min	Typical	Min	Typical	Min	Typical	Min	Typical	Min	Typical	Min	Typical
1	4.0	3.6	65.0	104.8	65.0	70.0	19.0	38.0	80.0	106.0	67.0	82.0	80.0	95.0
4	4.1	3.7	65.0	94.6	65.0	70.0	19.0	32.0	68.0	94.0	67.0	82.0	79.8	94.8
10	6.4	5.7	65.0	87.8	65.0	70.0	19.0	28.0	60.0	86.0	67.0	82.0	75.9	90.9
16	8.0	7.2	65.0	84.2	63.3	68.3	18.0	26.0	55.9	81.9	67.0	82.0	73.9	88.9
20	9.0	8.1	65.0	82.5	61.4	66.4	17.5	25.0	54.0	80.0	67.0	82.0	72.9	87.9
31.25	11.2	10.1	65.0	79.1	57.5	62.5	16.5	23.1	50.1	76.1	67.0	82.0	71.0	86.0
62.5	15.9	14.3	65.0	73.7	51.5	56.5	14.0	20.0	44.1	70.1	67.0	82.0	68.0	83.0
100	20.3	18.2	65.0	70.0	47.4	52.4	12.0	18.0	40.0	66.0	67.0	82.0	65.9	80.9
155	25.4	22.8	63.0	66.6	43.6	48.6	10.1	16.1	36.2	62.2	67.0	82.0	63.9	78.9
200	28.9	26.0	60.9	64.6	41.4	46.4	9.0	15.0	34.0	60.0	67.0	82.0	62.8	77.8
250	32.5	29.2	59.1	62.8	39.4	44.4	8.0	14.0	32.0	58.0	67.0	82.0	61.8	76.8
300	35.7	32.1	57.7	61.3	37.8	42.8	8.0	13.2	30.5	56.5	67.0	82.0	60.9	75.9
500	46.7	42.0	53.6	57.2	33.4	38.4	8.0	11.0	26.0	52.0	64.5	79.5	58.6	73.6
600	51.4	46.3	52.1	55.8	31.8	36.8	8.0	10.2	24.4	50.4	63.3	78.3	57.8	72.8
700	55.8	50.2	50.8	54.5	30.5	35.5	7.5	9.5	23.1	49.1	62.3	77.3	57.1	72.1
800	59.9	53.9	49.7	53.5	29.3	34.3	7.0	9.0	21.9	47.9	61.5	76.5	56.4	71.4
900	63.8	57.5	48.8	52.5	28.3	33.3	6.5	8.5	20.9	46.9	60.7	75.7	55.9	70.9
1000	67.6	60.8	47.9	51.6	27.4	32.4	6.0	8.0	20.0	46.0	60.0	75.0	55.4	70.4

all values are specified at 20°C

Product List

Nexans ref.	Name
N900.67A New	CAT7A Measurement Cord GG45 8C LSZH Orange 2m
N101.23A00 New	LANmark-7A Patch Cord Cat 7A 1GHz GG45 8C Screened LSZH Orange 10m
N101.23A00 New	LANmark-7A Patch Cord Cat 7A 1GHz GG45 8C Screened LSZH Orange 20m
N101.23A00 New	LANmark-7A Patch Cord Cat 7A 1GHz GG45 8C Screened LSZH Orange 2m
N101.23A00 New	LANmark-7A Patch Cord Cat 7A 1GHz GG45 8C Screened LSZH Orange 3m

LANmark-7A Patch Cord

Nexans ref.	Name
N101.23AHO New	LANmark-7A Patch Cord Cat 7A 1GHz GG45 8C Screened LSZH Orange 5m

LANmark-7 GG45 Connector

LANmark-7 GG45

- High speed '2 in 1' Multimedia Connector
- Supports data applications up to 600 MHz Class F
- Supports CATV VHF and UHF up to 1000MHz
- Backwards compatible
- Switch Inside
- Compatible with ISO 11801 (enterprise cabling)
- Compatible with ISO 15018 (residential cabling)
- Fits in all Nexans modular Snap-In structural hardware

Description

Description

LANmark-7 GG45 is a standardised High Speed '2 in 1' Snap-In Connector, which contains a full Cat 6 (RJ45) Interface as well as a full Cat 7 Interface, using additional contacts for the 600 MHz transmission.

LANmark-7 offers uniquely backwards compatible services realised through an incorporated switch, which activates a maximum of 8 out of 12 contacts. For 100/250 MHz transmission performance, the upper 8 RJ45 contacts are used, for 600 MHz the 8 contacts in the extreme corners are used.

The LANmark-7 GG45 Snap-In Connector is part of the Nexans modular Snap-In system and fits in all structural hardware designed for this range. It is a full-screened connector with 360° EMC protection. 4 versions of LANmark-7 GG45 are available: one for solid cables, one for stranded cables, a UL version and a Heavy Duty connector for harsh environments. The version of GG45 for stranded wire is especially made for networks, which use 3/4 Connector Links and so called Consolidation Points to achieve higher flexibility. GG45 for stranded wire can terminate single ended flexible patch cords at those Consolidation Points.

An optional adapter clip can be added to fit the outer dimensions of the international well-known keystone format.

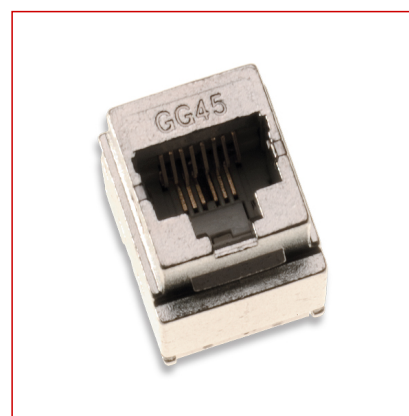
Application

LANmark-7 GG45 supports all data applications defined for Cat 5, Cat 5E, Cat 6 and Cat 7 such as 10BaseT, 100BaseT, Gigabit Ethernet, 1000BaseTX, 1GBaseTX2 over Class F, 1GBaseTX4 over Class F, 10GBaseT according IEEE802.3.AN, 155 ATM, 622 ATM, 1G ATM (CB1G)

.....

Performance

The LANmark-7 GG45 Snap-In Connector has been designed to reach the highest performance in Cat 6, Cat 7 and broadcast applications (as for example ISO 15018 residential cabling). It has outstanding performance for attenuation (insertion loss), NEXT/FEXT, Power Sum NEXT/FEXT and RETURN LOSS. A metal cross inside the connector ensures the high NEXT performance in Cat 6 and Cat 7 mode. Excellent Return Loss Values ensure that LANmark-7 GG45 in addition to all Data applications is best suited to support CATV signals up to 1000 MHz.



LANmark-7

Standards

International ISO/IEC 11801

LANmark-7 GG45 Connector

Product List

Nexans ref.	Name
N20i.001	LANmark Industry DIN-Rail Mount with LANmark-7 GG45 connector
N420.730	LANmark-7 GG45 12C Snap-In Connector Cat 7 600MHz Screened
N420.731	LANmark-7 GG45 12C Snap-In Connector Cat 7 600MHz Screened for stranded wire

Selling delivery information

Guarantees

The LANmark-7 GG45 Snap-In Connector is fully compliant with the current ISO Cat 6 and Cat 7 standard and exceeds all parameters with substantial headroom.

When combined with LANmark Cat 6 or Cat 7 Cables and Patch Cords a full 25 year Class E and F Channel Warranty can be obtained.

Installation

The LANmark-7 GG45 Snap-In connector is designed to be terminated without punch down tools. For fast and easy installation of large volumes, an optional Comfort Tool can be used.

- Versions for solid cable: accepts 24, 23 and 22 AWG cable
- Version for stranded cable: accepts 26 AWG flex cable
- Fast termination of cable using Nexans wire organiser
- Colour code : TSB568A and TSB568B

LANmark-7 Cable

- Exceeds Category 7 using 4 individually screened pairs
- Optimised for use with LANmark-7 GG45 connector
- Small outer diameter
- Easy to install due to a tight foil construction

Description

Description

LANmark-7 cable is a 4pr S/FTP with individual pair foils and an overall braid offering superior performance in terms of ACR. It is fully compliant with the Category 7 standards and when installed together with the GG45 LANmark-7 connector as a system is guaranteed to exceed all channel requirements in all configuration scenarios (up to 4-connector channels).

Application

LANmark-7 will support all current and planned data applications developed for cabling up to Class F.

- All Ethernet applications including
- 1000Base-T
- 1000Base-TX
- 10GBase-T
- CATV up to 862MHz
- Any future Class F application

Installation

Ease of Installation is one of the unique features of LANmark-7 cable. Extra attention has been paid to ensure screen coverage is maintained both during and after installation. The cable has been designed specifically to offer both optimum performance and ease of termination when used in conjunction with the LANmark-7 GG45 connector.



LANmark-7

Standards

International EN 50173;EN 50288-4-1;ISO/IEC 11801;ISO/IEC 61156-5

LANmark-7 Cable

Characteristics

Construction characteristics

Screen	Aluminium tape and copper braid
Drain wire	No

Transmission characteristics

Velocity of propagation	80.0 %
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Usage characteristics

Category	Cat. 7
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Electrical Performance LANmark-7 600 S/FTP Cable

Electrical Performance LANmark-7 600 S/FTP Cable

	Attenuation		NEXT		ACR		PS-NEXT		ACR-F		PS-ACR-F		Return Loss	
Frequency	(dB/100m)		(in dB)		(in dB)		(in dB)		(in dB)		(in dB)		(in dB)	
(MHz)	Max.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.
1.00	4.0	1.8	75.0	100.0	71.0	98.2	72.0	98.0	75.0	98.0	75.0	96.0	20.0	
4.00	4.0	3.5	75.0	100.0	71.0	96.5	72.0	98.0	75.0	98.0	75.0	96.0	23.0	26.0
10.00	5.9	5.5	75.0	100.0	69.1	94.5	72.0	98.0	75.0	98.0	72.3	96.0	25.0	28.0
16.00	7.4	6.8	75.0	100.0	67.6	93.2	72.0	98.0	71.2	96.0	68.2	94.0	25.0	28.0
20.00	8.3	7.7	75.0	100.0	66.7	92.3	72.0	98.0	69.3	94.0	66.3	92.0	25.0	28.0
31.25	10.4	9.6	75.0	100.0	64.6	90.4	72.0	98.0	65.4	90.0	62.4	88.0	23.6	26.0
62.50	14.9	14.0	75.0	100.0	60.1	86.0	72.0	98.0	59.4	84.0	56.4	82.0	21.5	25.0
100.00	19.0	17.7	72.4	100.0	53.4	82.3	69.4	98.0	55.3	75.0	52.3	73.0	20.1	24.0
155.00	24.0	22.8	69.5	96.0	45.6	73.2	66.5	93.0	51.5	70.0	48.5	68.0	18.8	23.0
250.00	31.0	29.0	66.4	94.0	35.5	65.0	63.4	91.0	47.3	66.0	44.3	64.0	17.3	22.0
300.00	34.2	32.1	65.2	92.0	31.1	59.9	62.2	88.0	45.8	54.0	42.8	52.0	17.3	20.0
600.00	50.1	45.5	60.7	90.0	10.6	44.5	57.7	86.0	39.7	54.0	36.7	52.0	17.3	20.0

all values are specified at 20°C

Product List

Nexans ref.	Name	Type of cable	Range
N10i.002	LANmark Industry S/FTP Cat 7 23 AWG Cable PUR 500m Reel	S/FTP	LANmark-7
 N100.376	LANmark-7 Lloyd's S/FTP Cat 7 23 AWG LSZH Blue 500m Reel	S/FTP	LANmark-7
N100.365 New	LANmark-7 S/FTP Cat 7 600MHz 23 AWG LSZH Orange 1000m Reel	S/FTP	LANmark-7
N100.367 New	LANmark-7 S/FTP Cat 7 600MHz Dual 2x23AWG LSZH Orange 500m Reel	S/FTP Shotgun	LANmark-7

LANmark-7 Patch Cords

Nexans Cat 7 Patch Cords

- High speed multimedia patch cord
- 600 MHz according IEC61076-3-110
- Allow full 4-connector Class F channels
- Compatible with ISO 11801 (Office environment)
- Compatible with ISO 15018 standard (Residential environment)

Description

Application

Nexans LANmark-7 patch cords with GG45 non switched plugs enable a GG45 permanent link to be used in 600 MHz mode. The protruding part on the plug activates the switch within the GG45 jack and terminates the not used contacts of RJ45 to ground. Using the contacts in the extreme outer corners of the RJ45 interface for transmission, excellent NEXT and Return Loss performance are achieved.

Nexans LANmark-7 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 600 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 Multimedia patch cords
- Screened
- 2 x GG45 4-pair, non backwards compatible plugs

Guarantees

- Reliable connections over the lifetime of the cabling system.
- Compatible with IEC 61076-3-110
- Compatible with Class F standard (ISO 11801)
- Compatible with Residential standard (ISO 15018) for BCT applications

Installation

- Rugged construction
 - high connector retention force due to moulded connectors
 - external strain relief
 - self-latching, high reliability GG45 (IEC61076-3-110) screened connectors
 - sidebars on the plug avoid errors by using the patch cord for RJ45 jacks
- A Low Smoke Zero Halogen - Flame Retardant jacket is standard
- Orange is standard, different colors are available on request, subject to quantity and availability
- 1, 2, 3 and 5m are standard lengths, others lengths are available on demand



LANmark-7

Standards

International ISO/IEC 11801



Fire retardant
IEC 60332 Part 1

LANmark-7 Patch Cords

Characteristics

Construction characteristics	
Colour	Orange
Outer sheath	LSZH-FR
Dimensional characteristics	
Nominal outer diameter	6.35 mm
Electrical characteristics	
Characteristic impedance	100 Ohm
Usage characteristics	
Fire retardant	IEC 60332 Part 1

Product List

Nexans ref.	Name	Mechanical durability/ matings	Length (m)	Range	Screen
N900.679	LANmark-7 Measurement Cord Cat 7 GG45 4P/GG45 4P LSZH-FR SCR 2 M ORANGE	1000	2	LANmark-7	S-FTP
N101.239EO	LANmark-7 Patch Cord Cat 7 GG45 4P/GG45 4P LSZH FR SCR 2 M ORANGE	750	2	LANmark-7	S-FTP
N101.239FO	LANmark-7 Patch Cord Cat 7 GG45 4P/GG45 4P LSZH-FR SCR 3 M ORANGE	750	3	LANmark-7	S-FTP
N101.239HO	LANmark-7 Patch Cord Cat 7 GG45 4P/GG45 4P LSZH-FR SCR 5 M ORANGE	750	5	LANmark-7	S-FTP
N101.239CO	LANmark-7 Single End Cord Cat 7 GG45 4P LSZH-FR SCR 10 M ORANGE	750	10	LANmark-7	S-FTP

LANmark-7 Splitter Cords

- Patch cords to allow application sharing with GG45
- Up to 4 applications simultaneously
- Compatible with ISO 11801
- Compatible with ISO 15018 draft

Description

Application

LANmark-7 Splitter cords allow to run multiple applications at the same time using only 1 GG45 permanent link.

LANmark-7 cable provides 4 individually shielded cable pairs. The GG45 Connector maintains the individual shields due to its internal metal cross and creates 4 completely shielded end to end communications channels, which can be used by different applications simultaneously. The LANmark-7 splitter cords allow to address each communication channel individually.

Many applications do not use all 4-pairs provided by the cable. Analogue telephony and CATV for example need only 1 pair, many data protocols like Ethernet and Fast Ethernet use 2 pairs.

Broadband Applications supported

LANmark-7 systems support CATV/CCTV applications and comply with the requirement for BCT in the ISO15018 Draft for Home Applications. Each of the 4 communication channels supports the CATV/CCTV applications up to 1000MHZ.

Up to the maximum of 4 pairs different combinations are supported:

- 4 services : eg. 4 x 1 pair applications such as voice, fax, CATV/CCTV
- 3 services: eg. 2 x 1 pair applications plus 1 x 2 application such as Ethernet or Fast Ethernet
- 2 services: eg. 2 x 2 pair applications
- 1 service: eg. 1 x 4 pair application such as Gigabit Ethernet

Description

The patch cords always have 1 GG45 Plug on the wall outlet side and multiple connectors on the user side. The GG45 Plugs terminates up to 3 cables, held together by a molded boot. On the user side the patch cords use standard RJ45 or RJ11 connectors.

Guarantees

- Reliable connections with LANmark-7 GG45 and User Terminals
- up to 750 insertions
- Compatible with IEC 61076-3-110 and IEC 60603-7 series



LANmark-7

Standards

International ISO/IEC 11801



Flame retardant
IEC 60332-1

LANmark-7 Splitter Cords

Properties

- Grey Color





Flame retardant
IEC 60332-1

LANmark-7 Splitter Cords

Characteristics

Construction characteristics	
Outer sheath	LSZH-FR
Sheath colour	Light grey
Electrical characteristics	
Characteristic impedance	100 Ohm
Usage characteristics	
Mechanical durability/matings	750
Range	LANmark-7
Flame retardant	IEC 60332-1

Product List

Nexans ref.	Name	Length (m)
 N101.2B9CG New	Splitter Patch Cord GG45 - 1xEthernet RJ45 - 2xVoiceRJ11 Screened 1m LSZH Grey	1
 N101.2B9EG New	Splitter Patch Cord GG45 - 1xEthernet RJ45 - 2xVoiceRJ11 Screened 2m LSZH Grey	2
 N101.2B9FG New	Splitter Patch Cord GG45 - 1xEthernet RJ45 - 2xVoiceRJ11 Screened 3m LSZH Grey	3
 N101.2B9HG New	Splitter Patch Cord GG45 - 1xEthernet RJ45 - 2xVoiceRJ11 Screened 5m LSZH Grey	5
N101.2A9CG New	Splitter Patch Cord GG45 - 2xEthernet RJ45 Screened 1m LSZH Grey	1
N101.2A9EG New	Splitter Patch Cord GG45 - 2xEthernet RJ45 Screened 2m LSZH Grey	2
N101.2A9FG New	Splitter Patch Cord GG45 - 2xEthernet RJ45 Screened 3m LSZH Grey	3
N101.2A9HG New	Splitter Patch Cord GG45 - 2xEthernet RJ45 Screened 5m LSZH Grey	5

Contact

LAN Systems (Nexans Cabling Solutions)
Phone: +44 (0) 1256 486640
ncs.uk@nexans.com

GG45 8C PCB jack

LANmark-7 GG45

- Right angled Cat 7A PCB jack up to 1500 MHz
- to be used in active equipment or patch panels
- UL94-V0 plastic components
- RoHS compliant
- Wave solder compatible.

Description

Please refer to the datasheet of N420.738 for more detailed information and performance tables.

**LANmark-7****Standards**

International ISO/IEC 11801

GG45 8C PCB jack

Characteristics

Construction characteristics

Colour	Black
Screen	Yes
Connector type	Female


Dimensional characteristics

Height	13.46 mm
Width	15.24 mm
Depth	21.84 mm

Usage characteristics

Component function	Connector
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Product List

Nexans ref.	Name	Category	Range
N420.738	GG45 Right angle 8 contact jack for PCB mount	Cat. 7A	LANmark-7A
 New			

Contact

LAN Systems (Nexans Cabling Solutions)
Phone: +44 (0) 1256 486640
ncs.uk@nexans.com

Voice grade

The Nexans Voice range includes Voice grade cables and IDC connectivity and is used to integrate telephony applications into a LAN infrastructure.

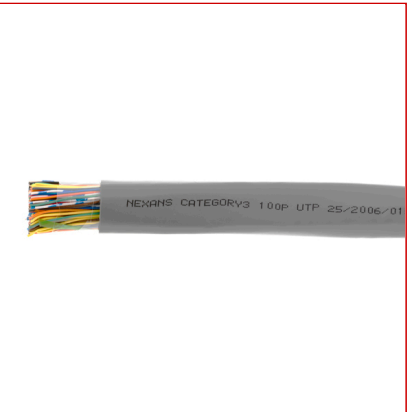


Voice Cables

- 25pr, 50pr, or 100pr
- Suitable for voice and low grade data
- Category 3 and Category 5 compliant

Description

Voice grade cables are used to integrate telephony applications in the backbone of a LAN infrastructure. They are multipair twisted pair cables and exist in Category 3 and Category 5 performance levels.



Standards

International ISO/IEC 11801

Voice Cables

Product List

Nexans ref.	Name	Number of pairs	Outer sheath	Type of cable	Category
N100.M02	U/UTP Cat 5 Multipair 25pr 24AWG LSZH Orange 1000m reel	25	LSZH	U/UTP	Cat. 5
N100.M01	U/UTP Cat 5 Multipair 25pr 24AWG PVC Grey 1000m reel	25	PVC	U/UTP	Cat. 5
N100.M04	U/UTP Cat 5 Multipair 50pr 24AWG LSZH Orange 500m reel	50	LSZH	U/UTP	Cat. 5
N100.819FR New	Voice F/UTP Multipair 100pr 24AWG LSZH 250m reel	100	LSZH	F/UTP	Cat. 5
N100.809N	Voice U/UTP Cat 3 Multipair 100pr 24AWG PVC grey 500m reel	100	PVC	U/UTP	Cat. 3
N100.808N	Voice U/UTP Cat 3 Multipair 50pr 24AWG PVC Grey 500m reel	50	PVC	U/UTP	Cat. 3

IDC connectivity and accessories

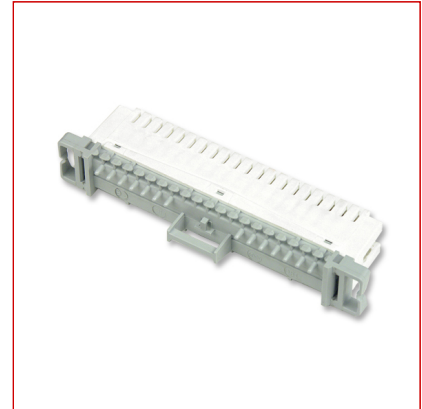
Complete range of LSA+ voice connectivity and accessories

Description

Nexans offers a complete range of voice IDC module and accessories in order to build a voice backbone in any installation. Nexans uses the LSA+ type connectivity.

The Nexans Voice range includes :

- IDC connection modules
- 19" 3 HU frame
- 3HU patch guide
- Marking cap
- Open contact marking strip
- Surge arrestor and protection magazine
- Patch Cords
- Voice MDF solution : stand alone, wall mounted or wall box
- Accessories and frames






Standards

International ISO/IEC 11801

IDC connectivity and accessories

Product List

Nexans ref.	Name
N102.331	10xVoice IDC 1 Pair Disconnection Plug Red
N102.333	10xVoice IDC Label Holder for Module 10 Pairs
N108.106	3HU Patch Guide for IDC Frame
N201.001	IDC 1 pair marking cap red
N103.203	Surge Arrestors
N102.350	Voice 3HU distribution frame for 15 IDC blocks
N102.320	Voice Earth Module for 10 Pairs LSA+
N102.310	Voice IDC Category 3 Disconnection Module 10 Pairs LSA+
N102.332	Voice IDC Label Holder for Frame
 N102.362	Voice MDF 2x26 modules wall box
 N102.361	Voice MDF 2x74 modules stand alone (ETSI format)
 N102.360	Voice MDF 81 modules wall mounted
N102.321	Voice Surge Protector Magazine for 10 Pairs empty

1 HU Voice Patch Panel 50 ports Cat 3

Nexans Voice Range

50 ports in 1 HU

category 3 suitable for voice application

Description

Application

The Nexans Voice 1HU 50 ports patch panel is based on 19" frame dimensions. It is easy to manage thanks to the cable guide tie wrap support. The use of patch guides (sold separately) allows an orderly arrangement of patchcords.

Performance

The Nexans Voice 1HU 50 ports patch panel is compliant with Category 3 requirements.

Guarantees

Fully included in the LANmark System Warranty.

Installation

- The patch panel is equipped with a integrated plate for tie wrap strain relief for easy front access.
- Punchdown from the top for easy connection from the front of cabinets.
- Supplied with fixings.
- With Nexans LSA+/110 IDC terminations.
- Unscreened version.
- Colour code T568A & T568B.
- Can be used with all types of cables (from 22 up to 26 AWG).



Standards

International ISO/IEC 11801

1 HU Voice Patch Panel 50 ports Cat 3

Product List

Nexans ref.	Name
N500.350	50 port 1HU Voice Patchpanel - 2 pair
N424.514	50 port 1HU Voice Patchpanel - 3 pairs- Black

Voice Patch Cords

- Exists in 3 different types, depending on the application
- Unscreened flexible PVC cable

Description

Application

Nexans offers 3 different types of patch cords for voice applications, for both in the cabinet and in the work area:

- work area cord: 1 RJ45 to 1 RJ11 (N107.001)
- cabinet patch cords:
 - 1 RJ45 to 1 IDC - 1 pair (N108.165 and N108.166)
 - 1 RJ45 to 1 IDC - 2 pairs (N108.209 and N108.210)



Standards

International ISO/IEC 11801

Voice Patch Cords

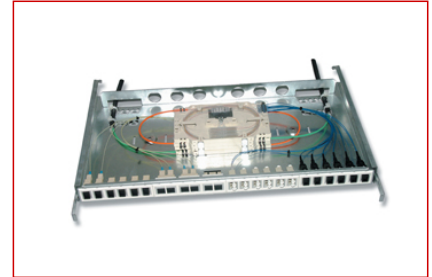
Product List

Nexans ref.	Name	Length (m)
 N107.001	Voice 2 pairs Patch Cord RJ45-RJ11 Black 5m	5
N108.165	Voice 1 pair Patch Cord 100 Ohm IDC - RJ45 Grey 1,5m	1.5
N108.166	Voice 1 pair Patch Cord 100 Ohm IDC - RJ45 Grey 3m	3
 N108.209	Voice 2 pairs Patch Cord 100 Ohm IDC - RJ45 Grey 1,5m	1.5
 N108.210	Voice 2 pairs Patch Cord 100 Ohm IDC - RJ45 Grey 3m	3

Optical Fibre

A full spectrum of Nexans LANmark fiber solutions is available for various performance levels and constructions to meet different applications and environmental conditions. LANmark fibre solutions approach offers flexibility and scalability for campus and building backbones, horizontal cabling applications, device termination in data centers and storage area networks.

Nexans fibre solutions are a fully integrated element of our LAN systems and covered within the system warranty.



The range includes:

- Cables
- Connectivity
- Hardware
- Pre-Terminated Fibre Assemblies

Fibre Cables

A wide variety of cable designs and fibre grade are available, meeting the needs of each mission critical applications. Designed for high performance and scalability for LAN, SAN and Campus applications, LANmark-OF technology deliver premium performance and reliability.

A large number of constructions are available: Tight / loose construction, PE / LSZH., rodent resistant / dielectric, ...

- UT
- UC
- UD
- TB
- TBW+
- ZC



In addition, Nexans proposes the best cost effective solution. 7 different fibre grades are available to best address the level of performance required.

LANmark-OF 1, OF 2 & OF Single Mode

Standard Multimode & Singlemode performance. LANmark-OF 1 is the MM62.5 version, LANmark-OF 2 the MM50 version, LANmark-OF sm the singlemode version.

LANmark-OF 1xt & OF 2xt

Laser optimised, enhanced OM1 & OM2 respectively (50/125 & 62.5/125) fibre cables designed to provide extended distances for Gigabit applications.

LANmark-OF 3 & OF 3xt

OM3 compliant 50/125 for 10 Gigabit applications up to 300m and up to 450m respectively..

Cables - LANmark-OF UC LSZH

UC optical fibre cables

- Outdoor in ducts or direct burial
- Corrugated steel tape armour
- Gel filled tube
- Standard or laser optimised fibres for extended distances
- Provides full rodent protection
- Low Smoke Zero Halogene (LSZH)

Description

Application

Nexans UC loose tube fibre cables have been designed for applications where a high level of installation, environmental and optical features are required.

The construction is suitable for use outdoor in ducts and for direct burial. It consists of a corrugated steel tape armouring providing full rodent protection. The tube is gel filled and has a capacity of up to 24 fibres. It is surrounded by glass yarns. The cable has a LSZH outer jacket.

Applications support :

- Fast Ethernet 100 base FX
- 1Gbase SX - LX
- 10Gbase SR - LW - LX4 - LR - LRM
- Fibre Channel Serial 1G
- Fibre Channel Serial 2G
- Fibre Channel Serial 4G
- Fibre Channel Serial 10G

Performance

Nexans loose tube fibre cables are available with a choice of fibres which include laser optimised solutions. These allow Gigabit applications to run over extended distances saving considerable expense on active equipment.

Construction

Legend accompanying the cross section drawing:

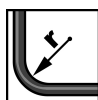
1. Gel filled tube containing up to 24 individually coloured fibres
2. Glass yarns reinforcement
3. Corrugated steel tape armour
4. LSZH outer sheath



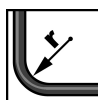
LANmark-OF

Standards

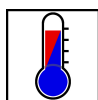
International ISO/IEC 11801



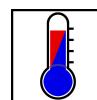
Laying operation bending
radius
170.0 mm



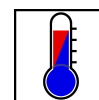
Minimum static operating
bending radius
120.0 mm



Ambient installation
temperature, range
0 .. 40 °C



Operating temperature,
range
-20 .. 60 °C



Storage temperature,
range
-30 .. 60 °C

Cables - LANmark-OF UC LSZH

Characteristics

Construction characteristics	
Type of cable	Unitube (UT)
Armour type	Corrugated steel
Protection	Glass yarns
Outer sheath	LSZH-FR
Dimensional characteristics	
Approximate weight	75 kg/km
Nominal outer diameter	8.5 mm
Mechanical characteristics	
Maximum tensile load during service	40.0 daN
Crush resistance (IEC 60794-1-2-E3)	300 N/cm
Usage characteristics	
Installation type	Outdoor - Direct burial
Rodent protection	High
Laying operation bending radius	170.0 mm
Minimum static operating bending radius	120.0 mm
Ambient installation temperature, range	0 .. 40 °C
Operating temperature, range	-20 .. 60 °C
Storage temperature, range	-30 .. 60 °C

Product List

Nexans ref.	Name	Flame retardant	Number of optical fibres	Material of filler / inner sheath	Fiber optic type
N160.475	LANmark-OF1 UC LSZH 12*MM62.5	Yes	12	Gel	OM1 62.5/125
N160.481	LANmark-OF1 UC LSZH 24*MM62.5	Yes	24	Gel	OM1 62.5/125
N160.472	LANmark-OF1 UC LSZH 6*MM62.5	Yes	6	Gel	OM1 62.5/125
N161.475	LANmark-OF1xt UC LSZH 12*MM62.5	Yes	12	Gel	OM1 62.5/125 Extended Distance
N161.481	LANmark-OF1xt UC LSZH 24*MM62.5	Yes	24	Gel	OM1 62.5/125 Extended Distance
N161.472	LANmark-OF1xt UC LSZH 6*MM62.5	Yes	6	Gel	OM1 62.5/125 Extended Distance
N162.475	LANmark-OF2 UC LSZH 12*MM50	Yes	12	Gel	OM2 50/125
N162.481	LANmark-OF2 UC LSZH 24*MM50	Yes	24	Gel	OM2 50/125
N162.472	LANmark-OF2 UC LSZH 6*MM50	Yes	6	Gel	OM2 50/125
N163.475	LANmark-OF2xt UC LSZH 12*MM50	Yes	12	Gel	OM2 50/125 Extended Distance

Cables - LANmark-OF UC LSZH

Nexans ref.	Name	Flame retardant	Number of optical fibres	Material of filler / inner sheath	Fiber optic type
N163.481	LANmark-OF2xt UC LSZH 24*MM50	Yes	24	Gel	OM2 50/125 Extended Distance
N163.472	LANmark-OF2xt UC LSZH 6*MM50	Yes	6	Gel	OM2 50/125 Extended Distance
N165.475	LANmark-OF3 UC LSZH 12*MM50	Yes	12	Gel	OM3 50/125
N165.481	LANmark-OF3 UC LSZH 24*MM50	Yes	24	Gel	OM3 50/125
N165.472	LANmark-OF3 UC LSZH 6*MM50	Yes	6	Gel	OM3 50/125
N166.475	LANmark-OF3xt UC LSZH 12*MM50	Yes	12	Gel	OM3 50/125 extended distance
N166.481	LANmark-OF3xt UC LSZH 24*MM50	Yes	24	Gel	OM3 50/125 extended distance
N166.472	LANmark-OF3xt UC LSZH 6*MM50	Yes	6	Gel	OM3 50/125 extended distance
N164.475	LANmark-OFsm UC LSZH 12*SM	Yes	12	Gel	SingleMode 9/125
N164.481	LANmark-OFsm UC LSZH 24*SM	Yes	24	Gel	SingleMode 9/125
N164.472	LANmark-OFsm UC LSZH 6*SM	Yes	6	Gel	SingleMode 9/125

Cables - LANmark-OF TB LSZH

Tight Buffer optical fibre cables

- Designed for direct termination on ST, SC or LC connectors
- Suitable for indoor
- Up to 24 fibre capacity
- Available in all fibre grades

Description

Application

LANmark-OF Tight Buffered optical fibre cables have been designed for applications where a high level of installation, environmental and optical performance is required. The tight buffered range is most suitable where direct termination is required

The majority of the tight buffered cables are suitable for both internal & external environments and are all dielectric with excellent flame retardance

Applications support :

- FDDI 100 Mbps
- Ethernet 10 base FL
- Fast Ethernet 100 base FX
- Gbit Ethernet 1000 base SX/LX
- 10Gbit Ethernet 10000 base SX(*)
- Fibre Channel 1.0625 Gbps
- ATM 155 Mbps
- ATM 622 Mbps

(*) in accordance with IEEE 802.3ae

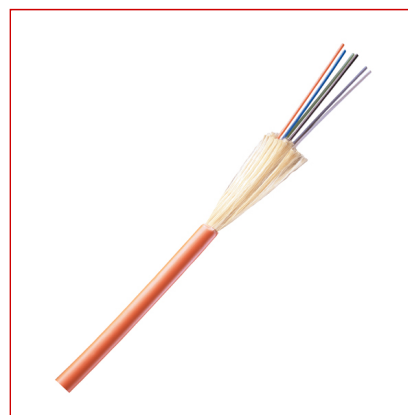
Performance

LANmark-OF Tight Buffered optical fibre cables are available with standard multimode & singlemode fibres whilst the LANmark-OFxt ranges are supplied with Laser Optimised multimode fibres offering extended application distances for Gigabit Ethernet.

Construction

Legend accompanying the cross section drawing:

1. 900 μ m tight buffered fibre
2. Aramid yarns reinforcement
3. Flame retardant halogen free outer sheath



LANmark-OF

Standards

International ISO/IEC 11801



Flame retardant
IEC 60332-1



Fire retardant
IEC 60332-3-25




Operating temperature, range
-20 .. 60 °C

Cables - LANmark-OF TB LSZH

Characteristics

Construction characteristics	
Type of cable	Tight Buffered (TB)
Armour type	Aramid yarn
Protection	Aramid yarns
Outer sheath	LSZH-FR
Mechanical characteristics	
Crush resistance (IEC 60794-1-2-E3)	440 N/cm
Usage characteristics	
Installation type	Indoor
Flame retardant	IEC 60332-1
Fire retardant	IEC 60332-3-25
Rodent protection	No
Operating temperature, range	-20 .. 60 °C

Product List

Nexans ref.	Name	Storage temperature, range (°C)	Fiber optic type	Number of optical fibres
 N165.9xx New	LANmark Industry-OF3 TBX-PUR MM50	-40 .. 70	OM3 50/125	
N160.025	LANmark-OF1 TB LSZH 12*MM62,5	-30 .. 70	OM1 62.5/125	12
N160.020	LANmark-OF1 TB LSZH 2*MM62,5	-30 .. 70	OM1 62.5/125	2
N160.031	LANmark-OF1 TB LSZH 24*MM62,5	-30 .. 70	OM1 62.5/125	24
N160.021	LANmark-OF1 TB LSZH 4*MM62,5	-30 .. 70	OM1 62.5/125	4
N160.022	LANmark-OF1 TB LSZH 6*MM62,5	-30 .. 70	OM1 62.5/125	6
N160.023	LANmark-OF1 TB LSZH 8*MM62,5	-30 .. 70	OM1 62.5/125	8
N161.025	LANmark-OF1xt TB LSZH 12*MM62,5	-30 .. 70	OM1 62.5/125 Extended Distance	12
N161.020	LANmark-OF1xt TB LSZH 2*MM62,5	-30 .. 70	OM1 62.5/125 Extended Distance	2
N161.031	LANmark-OF1xt TB LSZH 24*MM62,5	-30 .. 70	OM1 62.5/125 Extended Distance	24
N161.021	LANmark-OF1xt TB LSZH 4*MM62,5	-30 .. 70	OM1 62.5/125 Extended Distance	4
N161.022	LANmark-OF1xt TB LSZH 6*MM62,5	-30 .. 70	OM1 62.5/125 Extended Distance	6
N161.023	LANmark-OF1xt TB LSZH 8*MM62,5	-30 .. 70	OM1 62.5/125 Extended Distance	8

Cables - LANmark-OF TB LSZH

Nexans ref.	Name	Storage temperature, range (°C)	Fiber optic type	Number of optical fibres
N162.025	LANmark-OF2 TB LSZH 12*MM50	-30 .. 70	OM2 50/125	12
N162.020	LANmark-OF2 TB LSZH 2*MM50	-30 .. 70	OM2 50/125	2
N162.031	LANmark-OF2 TB LSZH 24*MM50	-30 .. 70	OM2 50/125	24
N162.021	LANmark-OF2 TB LSZH 4*MM50	-30 .. 70	OM2 50/125	4
N162.022	LANmark-OF2 TB LSZH 6*MM50	-30 .. 70	OM2 50/125	6
N162.023	LANmark-OF2 TB LSZH 8*MM50	-30 .. 70	OM2 50/125	8
N163.025	LANmark-OF2xt TB LSZH 12*MM50	-30 .. 70	OM2 50/125 Extended Distance	12
N163.020	LANmark-OF2xt TB LSZH 2*MM50	-30 .. 70	OM2 50/125 Extended Distance	2
N163.031	LANmark-OF2xt TB LSZH 24*MM50	-30 .. 70	OM2 50/125 Extended Distance	24
N163.021	LANmark-OF2xt TB LSZH 4*MM50	-30 .. 70	OM2 50/125 Extended Distance	4
N163.022	LANmark-OF2xt TB LSZH 6*MM50	-30 .. 70	OM2 50/125 Extended Distance	6
N163.023	LANmark-OF2xt TB LSZH 8*MM50	-30 .. 70	OM2 50/125 Extended Distance	8
N165.025	LANmark-OF3 TB LSZH 12*MM50	-30 .. 70	OM3 50/125	12
N165.020	LANmark-OF3 TB LSZH 2*MM50	-30 .. 70	OM3 50/125	2
N165.031	LANmark-OF3 TB LSZH 24*MM50	-30 .. 70	OM3 50/125	24
N165.021	LANmark-OF3 TB LSZH 4*MM50	-30 .. 70	OM3 50/125	4
N165.022	LANmark-OF3 TB LSZH 6*MM50	-30 .. 70	OM3 50/125	6
N165.023	LANmark-OF3 TB LSZH 8*MM50	-30 .. 70	OM3 50/125	8
N166.025	LANmark-OF3xt TB LSZH 12*MM50	-30 .. 70	OM3 50/125 extended distance	12
N166.020	LANmark-OF3xt TB LSZH 2*MM50	-30 .. 70	OM3 50/125 extended distance	2
N166.031	LANmark-OF3xt TB LSZH 24*MM50	-30 .. 70	OM3 50/125 extended distance	24
N166.021	LANmark-OF3xt TB LSZH 4*MM50	-30 .. 70	OM3 50/125 extended distance	4
N166.022	LANmark-OF3xt TB LSZH 6*MM50	-30 .. 70	OM3 50/125 extended distance	6
N166.023	LANmark-OF3xt TB LSZH 8*MM50	-30 .. 70	OM3 50/125 extended distance	8

Cables - LANmark-OF TB LSZH

Nexans ref.	Name	Storage temperature, range (°C)	Fiber optic type	Number of optical fibres
N164.025	LANmark-OFsm TB LSZH 12*SM	-30 .. 70	SingleMode 9/125	12
N164.020	LANmark-OFsm TB LSZH 2*SM	-30 .. 70	SingleMode 9/125	2
N164.031	LANmark-OFsm TB LSZH 24*SM	-30 .. 70	SingleMode 9/125	24
N164.021	LANmark-OFsm TB LSZH 4*SM	-30 .. 70	SingleMode 9/125	4
N164.022	LANmark-OFsm TB LSZH 6*SM	-30 .. 70	SingleMode 9/125	6
N164.023	LANmark-OFsm TB LSZH 8*SM	-30 .. 70	SingleMode 9/125	8

Cables - LANmark-OF UC

UC optical fibre cables

- Outdoor in ducts or direct burial
- Corrugated steel tape armour
- Gel filled tube
- Standard or laser optimised fibres for extended distances
- Provides full rodent protection

Description

Application

Nexans UC loose tube fibre cables have been designed for applications where a high level of installation, environmental and optical features are required.

The construction is suitable for use outdoor in ducts and for direct burial. It consists of a corrugated steel tape armouring providing full rodent protection. The tube is gel filled and has a capacity of up to 24 fibres. It is surrounded by glass yarns. The cable has a HDPE outer jacket.

Applications support :

- FDDI 100 Mbps
- Ethernet 10 base FL
- Fast Ethernet 100 base FX
- Gbit Ethernet 1000 base SX/LX
- 10Gbit Ethernet 10000 base SX(*)
- Fibre Channel 1.0625 Gbps
- ATM 155 Mbps
- ATM 622 Mbps

Performance

Nexans loose tube fibre cables are available with a choice of fibres which include laser optimised solutions. These allow Gigabit applications to run over extended distances saving considerable expense on active equipment.

Construction

Legend accompanying the cross section drawing:

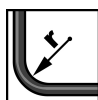
1. Gel filled tube containing up to 24 individually coloured fibres
2. Glass yarns reinforcement
3. Corrugated steel tape armour
4. PE outer sheath



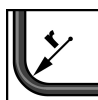
LANmark-OF

Standards

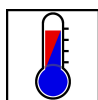
International ISO/IEC 11801



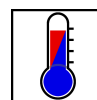
Laying operation bending
radius
170.0 mm



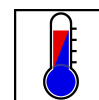
Minimum static operating
bending radius
120.0 mm



Ambient installation
temperature, range
0 .. 40 °C



Operating temperature,
range
-20 .. 60 °C



Storage temperature,
range
-30 .. 60 °C

Cables - LANmark-OF UC

Characteristics

Construction characteristics	
Type of cable	Unitube (UT)
Armour type	Corrugated steel
Protection	Glass yarns
Outer sheath	HDPE
Dimensional characteristics	
Approximate weight	75 kg/km
Nominal outer diameter	8.5 mm
Mechanical characteristics	
Maximum tensile load during service	40.0 daN
Crush resistance (IEC 60794-1-2-E3)	300 N/cm
Usage characteristics	
Installation type	Outdoor - Direct burial
Rodent protection	High
Laying operation bending radius	170.0 mm
Minimum static operating bending radius	120.0 mm
Ambient installation temperature, range	0 .. 40 °C
Operating temperature, range	-20 .. 60 °C
Storage temperature, range	-30 .. 60 °C

Product List

Nexans ref.	Name	Number of optical fibres	Fiber optic type
N160.185	LANmark-OF1 UC 12*MM62.5	12	OM1 62.5/125
N160.180	LANmark-OF1 UC 2*MM62.5	2	OM1 62.5/125
N160.191	LANmark-OF1 UC 24*MM62.5	24	OM1 62.5/125
N160.181	LANmark-OF1 UC 4*MM62.5	4	OM1 62.5/125
N160.182	LANmark-OF1 UC 6*MM62.5	6	OM1 62.5/125
N160.183	LANmark-OF1 UC 8*MM62.5	8	OM1 62.5/125
N161.185	LANmark-OF1xt UC 12*MM62.5	12	OM1 62.5/125 Extended Distance
N161.180	LANmark-OF1xt UC 2*MM62.5	2	OM1 62.5/125 Extended Distance
N161.191	LANmark-OF1xt UC 24*MM62.5	24	OM1 62.5/125 Extended Distance
N161.181	LANmark-OF1xt UC 4*MM62.5	4	OM1 62.5/125 Extended Distance
N161.182	LANmark-OF1xt UC 6*MM62.5	6	OM1 62.5/125 Extended Distance
N161.183	LANmark-OF1xt UC 8*MM62.5	8	OM1 62.5/125 Extended Distance
N162.185	LANmark-OF2 UC 12*MM50	12	OM2 50/125
N162.180	LANmark-OF2 UC 2*MM50	2	OM2 50/125
N162.191	LANmark-OF2 UC 24*MM50	24	OM2 50/125

Cables - LANmark-OF UC

Nexans ref.	Name	Number of optical fibres	Fiber optic type
N162.181	LANmark-OF2 UC 4*MM50	4	OM2 50/125
N162.182	LANmark-OF2 UC 6*MM50	6	OM2 50/125
N162.183	LANmark-OF2 UC 8*MM50	8	OM2 50/125
N163.185	LANmark-OF2xt UC 12*MM50	12	OM2 50/125 Extended Distance
N163.180	LANmark-OF2xt UC 2*MM50	2	OM2 50/125 Extended Distance
N163.191	LANmark-OF2xt UC 24*MM50	24	OM2 50/125 Extended Distance
N163.181	LANmark-OF2xt UC 4*MM50	4	OM2 50/125 Extended Distance
N163.182	LANmark-OF2xt UC 6*MM50	6	OM2 50/125 Extended Distance
N163.183	LANmark-OF2xt UC 8*MM50	8	OM2 50/125 Extended Distance
N165.185	LANmark-OF3 UC 12*MM50	12	OM3 50/125
N165.180	LANmark-OF3 UC 2*MM50	2	OM3 50/125
N165.191	LANmark-OF3 UC 24*MM50	24	OM3 50/125
N165.181	LANmark-OF3 UC 4*MM50	4	OM3 50/125
N165.182	LANmark-OF3 UC 6*MM50	6	OM3 50/125
N165.183	LANmark-OF3 UC 8*MM50	8	OM3 50/125
N166.185	LANmark-OF3xt UC 12*MM50	12	OM3 50/125 extended distance
N166.180	LANmark-OF3xt UC 2*MM50	2	OM3 50/125 extended distance
N166.191	LANmark-OF3xt UC 24*MM50	24	OM3 50/125 extended distance
N166.181	LANmark-OF3xt UC 4*MM50	4	OM3 50/125 extended distance
N166.182	LANmark-OF3xt UC 6*MM50	6	OM3 50/125 extended distance
N166.183	LANmark-OF3xt UC 8*MM50	8	OM3 50/125 extended distance
N164.185	LANmark-OFsm UC 12*SM	12	SingleMode 9/125
N164.180	LANmark-OFsm UC 2*SM	2	SingleMode 9/125
N164.191	LANmark-OFsm UC 24*SM	24	SingleMode 9/125
N164.181	LANmark-OFsm UC 4*SM	4	SingleMode 9/125
N164.182	LANmark-OFsm UC 6*SM	6	SingleMode 9/125
N164.183	LANmark-OFsm UC 8*SM	8	SingleMode 9/125

Cables - LANmark-OF UT LSZH

UT optical fibre cables

- Indoor or outdoor in ducts
- Gel filled tube + glass yarns
- Full dielectric design
- Standard or laser optimised fibres for extended distances
- Full dielectric, rodent resistant

Description

Application

Nexans UT loose tube fibre cables have been designed for applications where a high level of installation, environmental and optical features are required.

The construction is suitable for use indoor or outdoor in ducts. It is a full dielectric design providing rodent resistance. The tube is gel filled and has a capacity of up to 24 fibres. The cable has a flame retardant halogen free outer jacket and incorporates glass yarns.

Applications support :

- FDDI 100 Mbps
- Ethernet 10 base FL
- Fast Ethernet 100 base FX
- Gbit Ethernet 1000 base SX/LX
- 10Gbit Ethernet 10000 base SX(*)
- Fibre Channel 1.0625 Gbps
- ATM 155 Mbps
- ATM 622 Mbps

Performance

Nexans loose tube fibre cables are available with a choice of fibres which include laser optimised solutions. These allow Gigabit applications to run over extended distances saving considerable expense on active equipment.

Construction

Legend accompanying the cross section drawing:

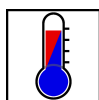
1. Gel filled tube containing up to 24 individually coloured fibres
2. Glass yarns reinforcement
3. LSZH outer sheath



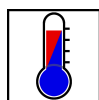
LANmark-OF

Standards

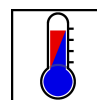
International ISO/IEC 11801



Ambient installation temperature, range
0 .. 40 °C



Operating temperature, range
-10 .. 60 °C



Storage temperature, range
-20 .. 60 °C

Cables - LANmark-OF UT LSZH

Characteristics

Construction characteristics	
Type of cable	Unitube (UT)
Armour type	Glass yarns
Protection	Glass yarns
Outer sheath	LSZH-FR
Dimensional characteristics	
Number of tubes	1
Nominal outer diameter	6.5 mm
Approximate weight	47 kg/km
Mechanical characteristics	
Maximum tensile load during service	40.0 daN
Crush resistance (IEC 60794-1-2-E3)	200 N/cm
Usage characteristics	
Installation type	Indoor/Outdoor
Rodent protection	Low
Ambient installation temperature, range	0 .. 40 °C
Operating temperature, range	-10 .. 60 °C
Storage temperature, range	-20 .. 60 °C

Product List

Nexans ref.	Name	Number of optical fibres	Fiber optic type
N160.225	LANmark-OF1 UT LSZH 12*MM62.5	12	OM1 62.5/125
N160.220	LANmark-OF1 UT LSZH 2*MM62.5	2	OM1 62.5/125
N160.231	LANmark-OF1 UT LSZH 24*MM62.5	24	OM1 62.5/125
N160.221	LANmark-OF1 UT LSZH 4*MM62.5	4	OM1 62.5/125
N160.222	LANmark-OF1 UT LSZH 6*MM62.5	6	OM1 62.5/125
N160.223	LANmark-OF1 UT LSZH 8*MM62.5	8	OM1 62.5/125
N161.225	LANmark-OF1xt UT LSZH 12*MM62.5	12	OM1 62.5/125 Extended Distance
N161.220	LANmark-OF1xt UT LSZH 2*MM62.5	2	OM1 62.5/125 Extended Distance
N161.231	LANmark-OF1xt UT LSZH 24*MM62.5	24	OM1 62.5/125 Extended Distance
N161.221	LANmark-OF1xt UT LSZH 4*MM62.5	4	OM1 62.5/125 Extended Distance
N161.222	LANmark-OF1xt UT LSZH 6*MM62.5	6	OM1 62.5/125 Extended Distance
N161.223	LANmark-OF1xt UT LSZH 8*MM62.5	8	OM1 62.5/125 Extended Distance
N162.225	LANmark-OF2 UT LSZH 12*MM50	12	OM2 50/125
N162.220	LANmark-OF2 UT LSZH 2*MM50	2	OM2 50/125

Cables - LANmark-OF UT LSZH

Nexans ref.	Name	Number of optical fibres	Fiber optic type
N162.231	LANmark-OF2 UT LSZH 24*MM50	24	OM2 50/125
N162.221	LANmark-OF2 UT LSZH 4*MM50	4	OM2 50/125
N162.222	LANmark-OF2 UT LSZH 6*MM50	6	OM2 50/125
N162.223	LANmark-OF2 UT LSZH 8*MM50	8	OM2 50/125
N163.225	LANmark-OF2xt UT LSZH 12*MM50	12	OM2 50/125 Extended Distance
N163.220	LANmark-OF2xt UT LSZH 2*MM50	2	OM2 50/125 Extended Distance
N163.231	LANmark-OF2xt UT LSZH 24*MM50	24	OM2 50/125 Extended Distance
N163.221	LANmark-OF2xt UT LSZH 4*MM50	4	OM2 50/125 Extended Distance
N163.222	LANmark-OF2xt UT LSZH 6*MM50	6	OM2 50/125 Extended Distance
N163.223	LANmark-OF2xt UT LSZH 8*MM50	8	OM2 50/125 Extended Distance
N165.225	LANmark-OF3 UT LSZH 12*MM50	12	OM3 50/125
N165.220	LANmark-OF3 UT LSZH 2*MM50	2	OM3 50/125
N165.231	LANmark-OF3 UT LSZH 24*MM50	24	OM3 50/125
N165.221	LANmark-OF3 UT LSZH 4*MM50	4	OM3 50/125
N165.222	LANmark-OF3 UT LSZH 6*MM50	6	OM3 50/125
N165.223	LANmark-OF3 UT LSZH 8*MM50	8	OM3 50/125
N164.225	LANmark-OFsm UT LSZH 12*SM	12	SingleMode 9/125
N164.220	LANmark-OFsm UT LSZH 2*SM	2	SingleMode 9/125
N164.231	LANmark-OFsm UT LSZH 24*SM	24	SingleMode 9/125
N164.221	LANmark-OFsm UT LSZH 4*SM	4	SingleMode 9/125
N164.222	LANmark-OFsm UT LSZH 6*SM	6	SingleMode 9/125
N164.223	LANmark-OFsm UT LSZH 8*SM	8	SingleMode 9/125

Cables - LANmark-OF TBW+ LSZH

TBW+ optical fibre cables

- Designed for direct termination on ST, SC or LC connectors
- Suitable for indoor and outdoor use in risers or ducts
- Fully waterproof, longitudinally and radially
- Provides rodent resistance
- Up to 24 fibre capacity
- Available in all fibre grades

Description

Application

LANmark-OF Tight Buffered optical fibre cables have been designed for applications where a high level of installation, environmental and optical performance is required. The tight buffered range is most suitable where direct termination is required

The majority of the tight buffered cables are suitable for both internal & external environments and are all dielectric with excellent flame retardance

Applications support :

- FDDI 100 Mbps
- Ethernet 10 base FL
- Fast Ethernet 100 base FX
- Gbit Ethernet 1000 base SX/LX
- 10Gbit Ethernet 10000 base SX(*)
- Fibre Channel 1.0625 Gbps
- ATM 155 Mbps
- ATM 622 Mbps

(*) in accordance with IEEE 802.3ae

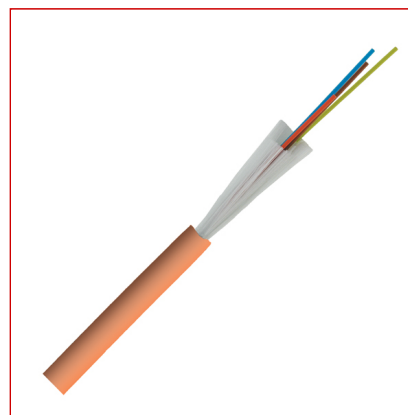
Performance

LANmark-OF Tight Buffered optical fibre cables are available with standard multimode & singlemode fibres whilst the LANmark-OFxt ranges are supplied with Laser Optimised multimode fibres offering extended application distances for Gigabit Ethernet.

Construction

Legend accompanying cross section drawing:

1. 900 μ m tight buffered fibre
2. Glass yarns reinforcement
3. Flame retardant halogen free outer sheath



LANmark-OF

Standards

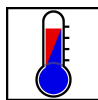
International ISO/IEC 11801



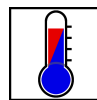
Flame retardant
IEC 60332 Part 3 Cat. C



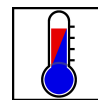
Fire retardant
IEC 60332-3-25



Ambient installation temperature,
range
0 .. 40 °C



Operating temperature,
range
-20 .. 60 °C



Storage temperature,
range
-20 .. 60 °C

Cables - LANmark-OF TBW+ LSZH

Characteristics

Construction characteristics	
Type of cable	Tight Buffered (TB)
Armour type	Glass yarns
Protection	Water swellable yarns
Outer sheath	LSZH-FR
Mechanical characteristics	
Crush resistance (IEC 60794-1-2-E3)	600 N/cm
Usage characteristics	
Flame retardant	IEC 60332 Part 3 Cat. C
Fire retardant	IEC 60332-3-25
Rodent protection	Low
Ambient installation temperature, range	0 .. 40 °C
Operating temperature, range	-20 .. 60 °C
Storage temperature, range	-20 .. 60 °C

Product List

Nexans ref.	Name	Installation type	Fiber optic type	Number of optical fibres
N160.625	LANmark-OF1 TBW+ 12*MM62.5	Indoor	OM1 62.5/125	12
N160.620	LANmark-OF1 TBW+ 2*MM62.5	Indoor	OM1 62.5/125	2
N160.631	LANmark-OF1 TBW+ 24*MM62.5	Indoor	OM1 62.5/125	24
N160.621	LANmark-OF1 TBW+ 4*MM62.5	Indoor	OM1 62.5/125	4
N160.622	LANmark-OF1 TBW+ 6*MM62.5	Indoor	OM1 62.5/125	6
N160.623	LANmark-OF1 TBW+ 8*MM62.5	Indoor	OM1 62.5/125	8
N161.605	LANmark-OF1xt TBW+ 12*MM62.5	Indoor	OM1 62.5/125 Extended Distance	12
N161.600	LANmark-OF1xt TBW+ 2*MM62.5	Indoor	OM1 62.5/125 Extended Distance	2
N161.611	LANmark-OF1xt TBW+ 24*MM62.5	Indoor	OM1 62.5/125 Extended Distance	24
N161.601	LANmark-OF1xt TBW+ 4*MM62.5	Indoor	OM1 62.5/125 Extended Distance	4
N161.602	LANmark-OF1xt TBW+ 6*MM62.5	Indoor	OM1 62.5/125 Extended Distance	6
N161.603	LANmark-OF1xt TBW+ 8*MM62.5	Indoor	OM1 62.5/125 Extended Distance	8
N162.625	LANmark-OF2 TBW+ 12*MM50	Indoor	OM2 50/125	12

Cables - LANmark-OF TBW+ LSZH

Nexans ref.	Name	Installation type	Fiber optic type	Number of optical fibres
N162.620	LANmark-OF2 TBW+ 2*MM50	Indoor	OM2 50/125	2
N162.631	LANmark-OF2 TBW+ 24*MM50	Indoor	OM2 50/125	24
N162.621	LANmark-OF2 TBW+ 4*MM50	Indoor	OM2 50/125	4
N162.622	LANmark-OF2 TBW+ 6*MM50	Indoor	OM2 50/125	6
N162.623	LANmark-OF2 TBW+ 8*MM50	Indoor	OM2 50/125	8
N163.605	LANmark-OF2xt TBW+ 12*MM50	Indoor	OM2 50/125 Extended Distance	12
N163.600	LANmark-OF2xt TBW+ 2*MM50	Indoor	OM2 50/125 Extended Distance	2
N163.611	LANmark-OF2xt TBW+ 24*MM50	Indoor	OM2 50/125 Extended Distance	24
N163.601	LANmark-OF2xt TBW+ 4*MM50	Indoor	OM2 50/125 Extended Distance	4
N163.602	LANmark-OF2xt TBW+ 6*MM50	Indoor	OM2 50/125 Extended Distance	6
N163.603	LANmark-OF2xt TBW+ 8*MM50	Indoor	OM2 50/125 Extended Distance	8
N165.605	LANmark-OF3 TBW+ 12*MM50	Indoor	OM3 50/125	12
N165.600	LANmark-OF3 TBW+ 2*MM50	Indoor	OM3 50/125	2
N165.611	LANmark-OF3 TBW+ 24*MM50	Indoor	OM3 50/125	24
N165.601	LANmark-OF3 TBW+ 4*MM50	Indoor	OM3 50/125	4
N165.602	LANmark-OF3 TBW+ 6*MM50	Indoor	OM3 50/125	6
N165.603	LANmark-OF3 TBW+ 8*MM50	Indoor	OM3 50/125	8
N166.605	LANmark-OF3xt TBW+ 12*MM50	Indoor	OM3 50/125 extended distance	12
N166.600	LANmark-OF3xt TBW+ 2*MM50	Indoor	OM3 50/125 extended distance	2
N166.611	LANmark-OF3xt TBW+ 24*MM50	Indoor	OM3 50/125 extended distance	24
N166.601	LANmark-OF3xt TBW+ 4*MM50	Indoor	OM3 50/125 extended distance	4
N166.602	LANmark-OF3xt TBW+ 6*MM50	Indoor	OM3 50/125 extended distance	6
N166.603	LANmark-OF3xt TBW+ 8*MM50	Indoor	OM3 50/125 extended distance	8
N164.625	LANmark-OFsm TBW+ 12*SM	Indoor	SingleMode 9/125	12
N164.620	LANmark-OFsm TBW+ 2*SM	Indoor	SingleMode 9/125	2

Cables - LANmark-OF TBW+ LSZH

Nexans ref.	Name	Installation type	Fiber optic type	Number of optical fibres
N164.631	LANmark-OFsm TBW+ 24*SM	Indoor	SingleMode 9/125	24
N164.621	LANmark-OFsm TBW+ 4*SM	Indoor	SingleMode 9/125	4
N164.622	LANmark-OFsm TBW+ 6*SM	Indoor	SingleMode 9/125	6
N164.623	LANmark-OFsm TBW+ 8*SM	Indoor	SingleMode 9/125	8

Cables - LANmark-OF ZC LSZH

ZipCord optical fibre cables

- Designed for direct termination on ST, SC or LC connectors
- Suitable for indoor use in horizontal cabling and risers
- Suitable for use in patch assembly
- Available in all fibre grades

Description

Application

LANmark-OF ZC optical fibre cables have been designed for applications where a high level of installation, environmental and optical performance is required. The ZipCord range is most suitable for direct termination in patch assembly and in risers and horizontal cabling.

The majority of the tight buffered cables are suitable for both internal & external environments and are all dielectric with excellent flame retardance

Applications support :

- FDDI 100 Mbps
- Ethernet 10 base FL
- Fast Ethernet 100 base FX
- Gbit Ethernet 1000 base SX/LX
- 10Gbit Ethernet 10000 base SX(*)
- Fibre Channel 1.0625 Gbps
- ATM 155 Mbps
- ATM 622 Mbps

(*) in accordance with IEEE 802.3ae

Performance

LANmark-OF Tight Buffered optical fibre cables are available with standard multimode & singlemode fibres whilst the LANmark-OFxt ranges are supplied with Laser Optimised multimode fibres offering extended application distances for Gigabit Ethernet.

Construction

Legend accompanying the cross section drawing:

1. 900 μ m tight buffered fibre
2. Aramid yarns reinforcement
3. Flame retardant halogen free outer sheath



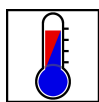
LANmark-OF

Standards

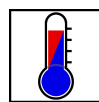
International ISO/IEC 11801



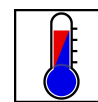
Flame retardant
IEC 60332 Part 3 Cat. C



Ambient installation temperature,
range
0 .. 40 °C



Operating temperature, range
-10 .. 70 °C



Storage temperature, range
-30 .. 70 °C

Cables - LANmark-OF ZC LSZH

Characteristics

Construction characteristics		
Type of cable		Zip Cord (ZC)
Armour type		Unarmoured
Material of filler / inner sheath		Aramid yarn
Outer sheath		LSZH-FR
Dimensional characteristics		
Number of optical fibres		2
Height		2.8 mm
Width		5.8 mm
Approximate weight		14 kg/km
Mechanical characteristics		
Crush resistance (IEC 60794-1-2-E3)		300 N/cm
Usage characteristics		
Installation type		Indoor
Flame retardant		IEC 60332 Part 3 Cat. C
Ambient installation temperature, range		0 .. 40 °C
Operating temperature, range		-10 .. 70 °C
Storage temperature, range		-30 .. 70 °C

Product List

Nexans ref.	Name	Fiber optic type
N160.001	LANmark-OF1 ZC LSZH 2*MM62.5	OM1 62.5/125
N161.001	LANmark-OF1xt ZC LSZH 2*MM62.5	OM1 62.5/125 Extended Distance
N162.001	LANmark-OF2 ZC LSZH 2*MM50	OM2 50/125
N163.001	LANmark-OF2xt ZC LSZH 2*MM50	OM2 50/125 Extended Distance
N165.001	LANmark-OF3 ZC LSZH 2*MM50	OM3 50/125
N166.001	LANmark-OF3xt ZC LSZH 2*MM50	OM3 50/125 extended distance
N164.001	LANmark-OFsm ZC LSZH 2*SM	SingleMode 9/125

Cables - LANmark-OF UD

UD optical fibre cables

- Suitable for outdoor in ducts or outdoor direct burial
- Full dielectric armour
- Gel filled tube
- Standard or laser optimised fibres for extended distances
- Rodent resistance
- Up to 24 fibres
- HDPE outer jacket

Description

Application

Nexans UD loose tube fibre cables have been designed for applications where a high level of installation, environmental and optical features are required.

The construction is suitable for use outdoor in ducts and for direct burial. It is a full dielectric armouring design providing rodent resistance. The dielectric armouring consists of half FRP elements and half fillers. The tube is gel filled and has a capacity of up to 24 fibres. The cable has a HDPE outer jacket.

Applications support :

- FDDI 100 Mbps
- Ethernet 10 base FL
- Fast Ethernet 100 base FX
- Gbit Ethernet 1000 base SX/LX
- 10Gbit Ethernet 10000 base SX(*)
- Fibre Channel 1.0625 Gbps
- ATM 155 Mbps
- ATM 622 Mbps

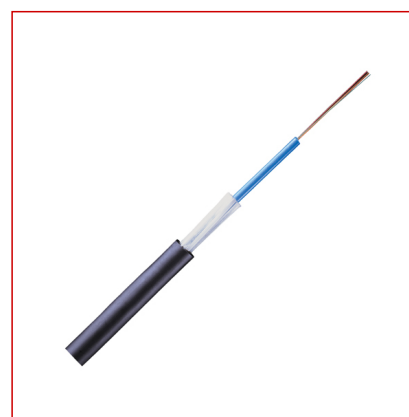
Performance

Nexans loose tube fibre cables are available with a choice of fibres which include laser optimised solutions. These allow Gigabit applications to run over extended distances saving considerable expense on active equipment.

Construction

Legend accompanying the cross section drawing:

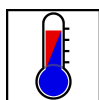
1. Gel filled tube containing up to 24 individually coloured fibres
2. Dielectric FRP armour :
from 2 up to 12 fibres : 4 x FRP and 5 fillers
from 14 up to 24 fibres : 5 x FRP and 5 fillers
3. PE outer sheath



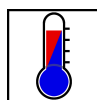
LANmark-OF

Standards

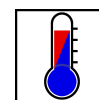
International ISO/IEC 11801



Ambient installation temperature, range
0 .. 40 °C



Operating temperature, range
-30 .. 60 °C



Storage temperature, range
-40 .. 70 °C

Cables - LANmark-OF UD

Characteristics

Construction characteristics	
Type of cable	Unitube (UT)
Armour type	FRP Dielectric
Protection	Water swellable yarns
Outer sheath	HDPE
Dimensional characteristics	
Number of tubes	1
Usage characteristics	
Installation type	Outdoor - Direct burial
Rodent protection	Medium
Ambient installation temperature, range	0 .. 40 °C
Operating temperature, range	-30 .. 60 °C
Storage temperature, range	-40 .. 70 °C

Product List

Nexans ref.	Name	Number of optical fibres	Fiber optic type
N160.685	LANmark-OF1 UD 12*MM62.5	12	OM1 62.5/125
N160.680	LANmark-OF1 UD 2*MM62.5	2	OM1 62.5/125
N160.691	LANmark-OF1 UD 24*MM62.5	24	OM1 62.5/125
N160.681	LANmark-OF1 UD 4*MM62.5	4	OM1 62.5/125
N160.682	LANmark-OF1 UD 6*MM62.5	6	OM1 62.5/125
N160.683	LANmark-OF1 UD 8*MM62.5	8	OM1 62.5/125
N161.685	LANmark-OF1xt UD 12*MM62.5	12	OM1 62.5/125 Extended Distance
N161.680	LANmark-OF1xt UD 2*MM62.5	2	OM1 62.5/125 Extended Distance
N161.691	LANmark-OF1xt UD 24*MM62.5	24	OM1 62.5/125 Extended Distance
N161.681	LANmark-OF1xt UD 4*MM62.5	4	OM1 62.5/125 Extended Distance
N161.682	LANmark-OF1xt UD 6*MM62.5	6	OM1 62.5/125 Extended Distance
N161.683	LANmark-OF1xt UD 8*MM62.5	8	OM1 62.5/125 Extended Distance
N162.685	LANmark-OF2 UD 12*MM50	12	OM2 50/125
N162.680	LANmark-OF2 UD 2*MM50	2	OM2 50/125
N162.691	LANmark-OF2 UD 24*MM50	24	OM2 50/125
N162.681	LANmark-OF2 UD 4*MM50	4	OM2 50/125
N162.682	LANmark-OF2 UD 6*MM50	6	OM2 50/125
N162.683	LANmark-OF2 UD 8*MM50	8	OM2 50/125
N163.685	LANmark-OF2xt UD 12*MM50	12	OM2 50/125 Extended Distance
N163.680	LANmark-OF2xt UD 2*MM50	2	OM2 50/125 Extended Distance
N163.691	LANmark-OF2xt UD 24*MM50	24	OM2 50/125 Extended Distance

Cables - LANmark-OF UD

Nexans ref.	Name	Number of optical fibres	Fiber optic type
N163.681	LANmark-OF2xt UD 4*MM50	4	OM2 50/125 Extended Distance
N163.682	LANmark-OF2xt UD 6*MM50	6	OM2 50/125 Extended Distance
N163.683	LANmark-OF2xt UD 8*MM50	8	OM2 50/125 Extended Distance
N165.685	LANmark-OF3 UD 12*MM50	12	OM3 50/125
N165.680	LANmark-OF3 UD 2*MM50	2	OM3 50/125
N165.691	LANmark-OF3 UD 24*MM50	24	OM3 50/125
N165.681	LANmark-OF3 UD 4*MM50	4	OM3 50/125
N165.682	LANmark-OF3 UD 6*MM50	6	OM3 50/125
N165.683	LANmark-OF3 UD 8*MM50	8	OM3 50/125
N164.685	LANmark-OFsm UD 12*SM	12	SingleMode 9/125
N164.680	LANmark-OFsm UD 2*SM	2	SingleMode 9/125
N164.691	LANmark-OFsm UD 24*SM	24	SingleMode 9/125
N164.681	LANmark-OFsm UD 4*SM	4	SingleMode 9/125
N164.682	LANmark-OFsm UD 6*SM	6	SingleMode 9/125
N164.683	LANmark-OFsm UD 8*SM	8	SingleMode 9/125

Fibre Connectivity

LANmark-OF offers cutting edge connectivity products including connectors, couplers, pigtails, patch cords,...

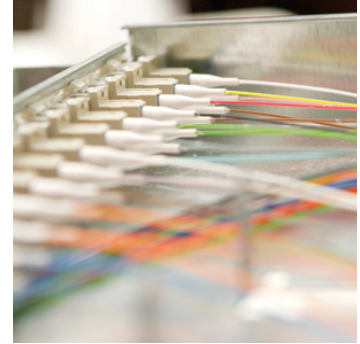
Each product has been thoroughly developed to ensure best system offering while meeting stringent international standards.

Small Form Factor products

Full range of pigtails, patchcords and adaptors supporting both small form factor MT-RJ and LC connectors as well as ST and SC connectors.

Snap-in concept

Nexans 'snap-in' format allows quick and easy installation without screws. They are available in SC format as well as the small form factor LC and MT-RJ connectors.



LANmark-OF Snap-In Adapter

Description

Application

LANmark-OF Snap-In adapters have been designed for snapping into the modular OF patch panels and ZD boxes. They are available in single SC, dual SC, LC duplex and MT-RJ version. The 2 Small Form Factor connector types offer double density, as two fibre connections are offered on the SC-type footprint. Installation time is saved as the snap-in concept replaces the time-consuming screwing attachment of coupling devices.

Performance

LC and SC versions are available in Multimode and Singlemode, MT-RJ is only available in Multimode.



LANmark-OF

Standards

International ISO/IEC 11801

LANmark-OF Snap-In Adapter

Product List

Nexans ref.	Name	Connector type
N205.611	LANmark-OF Snap-In Adapter 2LC-2LC Multimode	LC
N205.621	LANmark-OF Snap-In Adapter 2LC-2LC Singlemode	LC
N205.614	LANmark-OF Snap-In Adapter DSC-DSC Multimode	SC Duplex
N205.624	LANmark-OF Snap-In Adapter DSC-DSC Singlemode	SC Duplex
N205.612	LANmark-OF Snap-In Adapter MT-RJ - MT-RJ	MT-RJ
N205.613	LANmark-OF Snap-In Adapter SC-SC Multimode	SC
N205.623	LANmark-OF Snap-In Adapter SC-SC Singlemode	SC

LANmark-OF Connectors

- Connector for on-site termination
- Installed using the Nexans anaerobic toolkit
- Suitable for installation on 900µm fibre as well as on cable

Description

Nexans offers a large range of Fibre Optics connectors for field termination practices. All these connectors meet most recent standard ISO 11801 releases.

Connector type available :

- SC
- ST
- LC

For optimal installations, Nexans recommends to use its Anaerobic Toolkit (ref.: 102.220). This toolkit provides a comprehensive set of tools and consumables for easier on-site jobs and is supplied with illustrated installation manual.

**LANmark-OF**

Standards

International ISO/IEC 11801

LANmark-OF Connectors

Product List

Nexans ref.	Name	Adaptor	Fiber optic type
N102.461	LANmark-OF ST Connector Anaerobic Multimode for 900µm / 2.8mm	ST/UPC	Multimode
N102.462	LANmark-OF Simplex SC Connector Multimode for 900µm / 2.8mm (3M Hot Melt)	SC/UPC	Multimode
N205.120	LANmark-OF Simplex SC Connector Anaerobic Multimode for 900µm / 2.8mm	SC/UPC	Multimode
N205.121	LANmark-OF Simplex ST Connector Multimode for 900µm / 2.8mm (3M Hot Melt)	ST/UPC	Multimode
N890.008	LANmark-OF Simplex SC Connector Singlemode for 900µm / 2.8mm (3M Hot Melt)	SC/UPC	SingleMode 9/125
N205.630	LANmark-OF Simplex LC Connector Anaerobic Multimode for 900µm	LC/UPC	Multimode
N205.631	LANmark-OF Simplex LC Connector Anaerobic Multimode for 1.6-2.2mm	LC/UPC	Multimode

LANmark-OF Patch Cords

Description

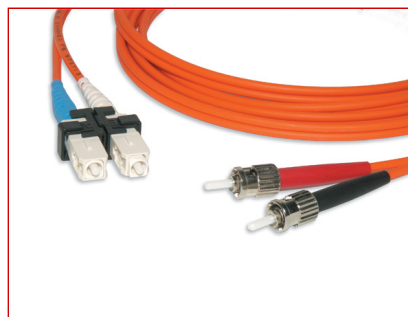
Application

Nexans **LANmark-OF** optical fibre patchcords have been designed for applications where a high level of optical features is required.

- Suitable for use in cabinets to connect patch panels/active equipments to active equipments.
- Suitable for use in the work area to connect the work station to the wall outlet (Fibre To The Desk).

Applications support :

- Fast Ethernet 100 base FX
- 1Gbase SX
- 1Gbase LX
- 10Gbase SR
- 10Gbase LW
- 10Gbase LX4
- 10Gbase LR
- 10Gbase LRM
- Fibre Channel Serial 1G
- Fibre Channel Serial 2G
- Fibre Channel Serial 4G
- Fibre Channel Serial 10G



LANmark-OF

Standards

International ISO/IEC 11801

Performance

Nexans **LANmark-OF** patchcords are available in all standardised optical fibre classes, multimode and single mode. The MM62.5 version is designed for use in an OM1 compliant system, the MM50 version for OM2 systems and the MM50 OM3 version for OM3 systems. The singlemode version is OS1 compliant. The multimode versions can be used in laser optimised systems using the **LANmark-OF xtcables**.

Design

Nexans **LANmark-OF** patchcords designed according the "Cross-Over" wiring principle to improve field installation (A1-B2, B1-A2).

Guarantees

Nexans **LANmark-OF** patchcords are guaranteed to support LED based applications as well as Laser based applications. They are covered by Nexans warranty as described in the General Terms and Conditions.

Technical data - Physical

Flame Retardance (Cable)	IEC 332-3C
Temperature rating	-10/ +50°C

Technical data - Mechanical

Mechanical data	
Cable Retention	MAX 10 daN

LANmark-OF Patch Cords

















Product List

Nexans ref.	Name	Length (m)	Fiber optic type	Connector type
N123.2LLO2	LANmark-OF Patch cord Multimode 50/125 2LC - 2LC LSZH Orange 2m	2	OM2 50/125 Extended Distance	LC
 N123.2LLO5	LANmark-OF Patch cord Multimode 50/125 2LC - 2LC LSZH Orange 5m	5	OM2 50/125 Extended Distance	LC
N123.2CLO2	LANmark-OF Patch cord Multimode 50/125 2LC - 2SC LSZH Orange 2m	2	OM2 50/125 Extended Distance	SC
 N123.2CLO5	LANmark-OF Patch cord Multimode 50/125 2LC - 2SC LSZH Orange 5m	5	OM2 50/125 Extended Distance	SC
 N123.2LTO2	LANmark-OF Patch cord Multimode 50/125 2LC - 2ST LSZH Orange 2m	2	OM2 50/125 Extended Distance	LC
 N123.2LTO5	LANmark-OF Patch cord Multimode 50/125 2LC - 2ST LSZH Orange 5m	5	OM2 50/125 Extended Distance	LC
N123.2CCO2	LANmark-OF Patch cord Multimode 50/125 2SC - 2SC LSZH Orange 2m	2	OM2 50/125 Extended Distance	SC
N123.2CCO5	LANmark-OF Patch cord Multimode 50/125 2SC - 2SC LSZH Orange 5m	5	OM2 50/125 Extended Distance	SC
N123.2CTO2	LANmark-OF Patch cord Multimode 50/125 2SC - 2ST LSZH Orange 2m	2	OM2 50/125 Extended Distance	SC
 N123.2CTO5	LANmark-OF Patch cord Multimode 50/125 2SC - 2ST LSZH Orange 5m	5	OM2 50/125 Extended Distance	SC
 N123.2TTO2	LANmark-OF Patch cord Multimode 50/125 2ST - 2ST LSZH Orange 2m	2	OM2 50/125 Extended Distance	ST
 N123.2TTO5	LANmark-OF Patch cord Multimode 50/125 2ST - 2ST LSZH Orange 5m	5	OM2 50/125 Extended Distance	ST
 N123.2MLO2	LANmark-OF Patch cord Multimode 50/125 MT-RJ - 2LC LSZH Orange 2m	2	OM2 50/125 Extended Distance	MT-RJ
 N123.2MLO5	LANmark-OF Patch cord Multimode 50/125 MT-RJ - 2LC LSZH Orange 5m	5	OM2 50/125 Extended Distance	MT-RJ
 N123.2MCO2	LANmark-OF Patch cord Multimode 50/125 MT-RJ - 2SC LSZH Orange 2m	2	OM2 50/125 Extended Distance	MT-RJ
 N123.2MCO5	LANmark-OF Patch cord Multimode 50/125 MT-RJ - 2SC LSZH Orange 5m	5	OM2 50/125 Extended Distance	MT-RJ
 N123.2MTO2	LANmark-OF Patch cord Multimode 50/125 MT-RJ - 2ST LSZH Orange 2m	2	OM2 50/125 Extended Distance	MT-RJ
 N123.2MTO5	LANmark-OF Patch cord Multimode 50/125 MT-RJ - 2ST LSZH Orange 5m	5	OM2 50/125 Extended Distance	MT-RJ
 N123.2MMO2	LANmark-OF Patch cord Multimode 50/125 MT-RJ - MT-RJ LSZH Orange 2m	2	OM2 50/125 Extended Distance	MT-RJ
 N123.2MMO5	LANmark-OF Patch cord Multimode 50/125 MT-RJ - MT-RJ LSZH Orange 5m	5	OM2 50/125 Extended Distance	MT-RJ
 N123.5LLO2	LANmark-OF Patch cord Multimode 50/125 OM3 2LC - 2LC LSZH Orange 2m	2	OM3 50/125 extended distance	LC
 N123.5LLO5	LANmark-OF Patch cord Multimode 50/125 OM3 2LC - 2LC LSZH Orange 5m	5	OM3 50/125 extended distance	LC



LANmark-OF Patch Cords

Nexans ref.	Name	Length (m)	Fiber optic type	Connector type
N123.5CLO2	LANmark-OF Patch cord Multimode 50/125 OM3 2LC - 2SC LSZH Orange 2m	2	OM3 50/125 extended distance	SC
 N123.5CLO5	LANmark-OF Patch cord Multimode 50/125 OM3 2LC - 2SC LSZH Orange 5m	5	OM3 50/125 extended distance	SC
 N123.5LTO2	LANmark-OF Patch cord Multimode 50/125 OM3 2LC - 2ST LSZH Orange 2m	2	OM3 50/125 extended distance	LC
 N123.5LTO5	LANmark-OF Patch cord Multimode 50/125 OM3 2LC - 2ST LSZH Orange 5m	5	OM3 50/125 extended distance	LC
N123.5CCO2	LANmark-OF Patch cord Multimode 50/125 OM3 2SC - 2SC LSZH Orange 2m	2	OM3 50/125 extended distance	SC
 N123.5CCO5	LANmark-OF Patch cord Multimode 50/125 OM3 2SC - 2SC LSZH Orange 5m	5	OM3 50/125 extended distance	SC
 N123.5CTO2	LANmark-OF Patch cord Multimode 50/125 OM3 2SC - 2ST LSZH Orange 2m	2	OM3 50/125 extended distance	SC
 N123.5CTO5	LANmark-OF Patch cord Multimode 50/125 OM3 2SC - 2ST LSZH Orange 5m	5	OM3 50/125 extended distance	SC
 N123.5TTO2	LANmark-OF Patch cord Multimode 50/125 OM3 2ST - 2ST LSZH Orange 2m	2	OM3 50/125 extended distance	ST
 N123.5TTO5	LANmark-OF Patch cord Multimode 50/125 OM3 2ST - 2ST LSZH Orange 5m	5	OM3 50/125 extended distance	ST
 N123.5MLO2	LANmark-OF Patch cord Multimode 50/125 OM3 MT-RJ - 2LC LSZH Orange 2m	2	OM3 50/125 extended distance	MT-RJ
 N123.5MLO5	LANmark-OF Patch cord Multimode 50/125 OM3 MT-RJ - 2LC LSZH Orange 5m	5	OM3 50/125 extended distance	MT-RJ
 N123.5MCO2	LANmark-OF Patch cord Multimode 50/125 OM3 MT-RJ - 2SC LSZH Orange 2m	2	OM3 50/125 extended distance	MT-RJ
 N123.5MCO5	LANmark-OF Patch cord Multimode 50/125 OM3 MT-RJ - 2SC LSZH Orange 5m	5	OM3 50/125 extended distance	MT-RJ
 N123.5MTO2	LANmark-OF Patch cord Multimode 50/125 OM3 MT-RJ - 2ST LSZH Orange 2m	2	OM3 50/125 extended distance	MT-RJ
 N123.5MTO5	LANmark-OF Patch cord Multimode 50/125 OM3 MT-RJ - 2ST LSZH Orange 5m	5	OM3 50/125 extended distance	MT-RJ
 N123.5MMO2	LANmark-OF Patch cord Multimode 50/125 OM3 MT-RJ - MT-RJ LSZH Orange 2m	2	OM3 50/125 extended distance	MT-RJ
 N123.5MMO5	LANmark-OF Patch cord Multimode 50/125 OM3 MT-RJ - MT-RJ LSZH Orange 5m	5	OM3 50/125 extended distance	MT-RJ
 N123.0LLO2	LANmark-OF Patch cord Multimode 62,5/125 2LC - 2LC LSZH Orange 2m	2	OM1 62.5/125 Extended Distance	LC
 N123.0LLO5	LANmark-OF Patch cord Multimode 62,5/125 2LC - 2LC LSZH Orange 5m	5	OM1 62.5/125 Extended Distance	LC
N123.0CLO2	LANmark-OF Patch cord Multimode 62,5/125 2LC - 2SC LSZH Orange 2m	2	OM1 62.5/125 Extended Distance	SC
 N123.0CLO5	LANmark-OF Patch cord Multimode 62,5/125 2LC - 2SC LSZH Orange 5m	5	OM1 62.5/125 Extended Distance	SC
 N123.0LTO2	LANmark-OF Patch cord Multimode 62,5/125 2LC - 2ST LSZH Orange 2m	2	OM1 62.5/125 Extended Distance	LC
 N123.0LTO5	LANmark-OF Patch cord Multimode 62,5/125 2LC - 2ST LSZH Orange 5m	5	OM1 62.5/125 Extended Distance	LC

LANmark-OF Patch Cords

Nexans ref.	Name	Length (m)	Fiber optic type	Connector type
N123.0CCO2	LANmark-OF Patch cord Multimode 62,5/125 2SC - 2SC LSZH Orange 2m	2	OM1 62.5/125 Extended Distance	SC
N123.0CCO5	LANmark-OF Patch cord Multimode 62,5/125 2SC - 2SC LSZH Orange 5m	5	OM1 62.5/125 Extended Distance	SC
N123.0CTO2	LANmark-OF Patch cord Multimode 62,5/125 2SC - 2ST LSZH Orange 2m	2	OM1 62.5/125 Extended Distance	SC
 N123.0CTO5	LANmark-OF Patch cord Multimode 62,5/125 2SC - 2ST LSZH Orange 5m	5	OM1 62.5/125 Extended Distance	SC
N123.0TTO2	LANmark-OF Patch cord Multimode 62,5/125 2ST - 2ST LSZH Orange 2m	2	OM1 62.5/125 Extended Distance	ST
 N123.0TTO5	LANmark-OF Patch cord Multimode 62,5/125 2ST - 2ST LSZH Orange 5m	5	OM1 62.5/125 Extended Distance	ST
 N123.0MLO2	LANmark-OF Patch cord Multimode 62,5/125 MT-RJ - 2LC LSZH Orange 2m	2	OM1 62.5/125 Extended Distance	MT-RJ
 N123.0MLO5	LANmark-OF Patch cord Multimode 62,5/125 MT-RJ - 2LC LSZH Orange 5m	5	OM1 62.5/125 Extended Distance	MT-RJ
N123.0MCO2	LANmark-OF Patch cord Multimode 62,5/125 MT-RJ - 2SC LSZH Orange 2m	2	OM1 62.5/125 Extended Distance	MT-RJ
 N123.0MCO5	LANmark-OF Patch cord Multimode 62,5/125 MT-RJ - 2SC LSZH Orange 5m	5	OM1 62.5/125 Extended Distance	MT-RJ
 N123.0MTO2	LANmark-OF Patch cord Multimode 62,5/125 MT-RJ - 2ST LSZH Orange 2m	2	OM1 62.5/125 Extended Distance	MT-RJ
 N123.0MTO5	LANmark-OF Patch cord Multimode 62,5/125 MT-RJ - 2ST LSZH Orange 5m	5	OM1 62.5/125 Extended Distance	MT-RJ
 N123.0MMO2	LANmark-OF Patch cord Multimode 62,5/125 MT-RJ - MT-RJ LSZH Orange 2m	2	OM1 62.5/125 Extended Distance	MT-RJ
 N123.0MMO5	LANmark-OF Patch cord Multimode 62,5/125 MT-RJ - MT-RJ LSZH Orange 5m	5	OM1 62.5/125 Extended Distance	MT-RJ
 N123.4LLY2	LANmark-OF Patch cord Singlemode 2LC - 2LC LSZH Yellow 2m	2	OS1	LC
 N123.4LLY5	LANmark-OF Patch cord Singlemode 2LC - 2LC LSZH Yellow 5m	5	OS1	LC
N123.4CLY2	LANmark-OF Patch cord Singlemode 2LC - 2SC LSZH Yellow 2m	2	OS1	SC
 N123.4CLY5	LANmark-OF Patch cord Singlemode 2LC - 2SC LSZH Yellow 5m	5	OM1 62.5/125 Extended Distance	SC
 N123.4LTY2	LANmark-OF Patch cord Singlemode 2LC - 2ST LSZH Yellow 2m	2	OS1	LC
 N123.4LTY5	LANmark-OF Patch cord Singlemode 2LC - 2ST LSZH Yellow 5m	5	OS1	LC
N123.4CCY2	LANmark-OF Patch cord Singlemode 2SC - 2SC LSZH Yellow 2m	2	OS1	SC
 N123.4CCY5	LANmark-OF Patch cord Singlemode 2SC - 2SC LSZH Yellow 5m	5	OM1 62.5/125 Extended Distance	SC
 N123.4CTY2	LANmark-OF Patch cord Singlemode 2SC - 2ST LSZH Yellow 2m	2	OS1	SC
 N123.4CTY5	LANmark-OF Patch cord Singlemode 2SC - 2ST LSZH Yellow 5m	5	OM1 62.5/125 Extended Distance	SC

LANmark-OF Patch Cords

Nexans ref.	Name	Length (m)	Fiber optic type	Connector type
 N123.4TTY2	LANmark-OF Patch cord Singlemode 2ST - 2ST LSZH Yellow 2m	2	OS1	ST
 N123.4TTY5	LANmark-OF Patch cord Singlemode 2ST - 2ST LSZH Yellow 5m	5	OS1	ST

LANmark-OF Pigtails

Description

Application

Nexans **LANmark-OF** optical fibre pigtails have been designed for applications where a high level of optical features is required.

- Suitable for use in Patch Panels using Splice Trays.
- Our pigtails are very easy to strip thanks to use of Maxi-strip instead of Tight Buffer fibre

Applications support :

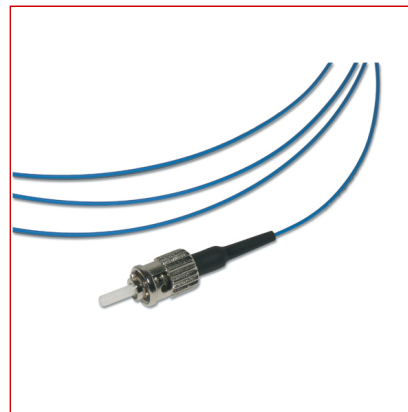
- Fast Ethernet 100 base FX
- 1Gbase SX - LX
- 10Gbase SR - LW - LX4 - LR - LRM
- Fibre Channel Serial 1G
- Fibre Channel Serial 2G
- Fibre Channel Serial 4G
- Fibre Channel Serial 10G

Performance

Nexans **LANmark-OF** pigtails are available in all standardised optical fibre classes, multimode and singlemode. The MM62.5 version is designed for use in an OM1 compliant system, the MM50 version for OM2 systems and the MM50 OM3 for OM3 systems. The singlemode version is OS1 compliant. The multimode versions can be used in laser optimised systems using the **LANmark-OF xtcables**.

Guarantees

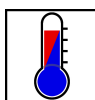
Nexans **LANmark-OF** pigtails are guaranteed to support usual LED based applications as well as Laser based applications. They are covered by Nexans warranty as described in the General Terms and Conditions.



LANmark-OF

Standards

International ISO/IEC 11801



Operating temperature, range
-10 .. 50 °C

LANmark-OF Pigtails

Characteristics

Usage characteristics

Length	1.5 m
Operating temperature, range	-10 .. 50 °C
Component function	Pigtail

Return-loss values for Pigtails

	MM50 & MM62,5		SM		
	ST-SC-LC	MT-RJ	ST-SC-LC	SC	MT-RJ
Polishing	PC	PC	PC	APC	N/A
Insertion loss min.	0,3dB	0,3dB	0,2dB	0,35dB	N/A
Return loss max.	>40dB	>35dB	45dB	>65dB	N/A

Product List

Nexans ref.	Name	Connector type	Fiber optic type
N890.061	LANmark-OF Pigtail MM 50/125, LC, 1,5m, LSZH	LC	OM2 50/125 Extended Distance
N890.062	LANmark-OF Pigtail MM 50/125, MTRJ, 1,5m, LSZH	MT-RJ	OM2 50/125 Extended Distance
N890.071	LANmark-OF Pigtail MM 50/125, OM3, LC, 1,5m LSZH	LC	OM3 50/125 extended distance
N890.072	LANmark-OF Pigtail MM 50/125, OM3, MTRJ, 1,5m LSZH	MT-RJ	OM3 50/125 extended distance
N890.046	LANmark-OF Pigtail MM 50/125, OM3, SC/PC, 1,5m, LSZH	SC	OM3 50/125 extended distance
N890.047	LANmark-OF Pigtail MM 50/125, OM3, ST/PC, 1,5m, LSZH	ST	OM3 50/125 extended distance
N890.039	LANmark-OF Pigtail MM 50/125, SC/PC, 1,5m, LSZH	SC	OM2 50/125 Extended Distance
N890.038	LANmark-OF Pigtail MM 50/125, ST/PC, 1,5m, LSZH	ST	OM2 50/125 Extended Distance
N890.051	LANmark-OF Pigtail MM 62,5/125, LC, 1,5m, LSZH	LC	OM1 62.5/125 Extended Distance
N890.052	LANmark-OF Pigtail MM 62,5/125, MTRJ, 1,5m, LSZH	MT-RJ	OM1 62.5/125 Extended Distance
N890.037	LANmark-OF Pigtail MM 62,5/125, SC/PC, 1,5m, LSZH	SC	OM1 62.5/125 Extended Distance
N890.036	LANmark-OF Pigtail MM 62,5/125, ST/PC, 1,5m, LSZH	ST	OM1 62.5/125 Extended Distance
N890.081	LANmark-OF Pigtail Single Mode, LC, 1,5m, LSZH	LC	SingleMode 9/125

LANmark-OF Pigtails

Nexans ref.	Name	Connector type	Fiber optic type
N890.042	LANmark-OF Pigtail Single Mode, SC/APC, 1,5m, LSZH	SC	SingleMode 9/125
N890.041	LANmark-OF Pigtail Single Mode, SC/PC, 1,5m, LSZH	SC	SingleMode 9/125
N890.040	LANmark-OF Pigtail Single Mode, ST/PC, 1,5m, LSZH	ST	SingleMode 9/125

LANmark-OF Fibre Accessories

- OF-LANmark accessories to complete the whole system.
- OF splice trays
- SC & ST connectors
- SC & ST couplers
- Fusion splice protection & Tool
- Cable gland & splitter tube
- Micro tube

Description

Application

- Optical fibre accessories to complete all Nexans OF products, patch panels, ZD boxes, splitter box.
- Designed for the installation of zone wiring, fibre to the office, fibre to the desk and backbone connections.

Compatibility

Suitable for tight buffer cable (direct termination) or loose tube using splice tray and pigtails

Compatible with all Nexans ST or SC patch panels, zone distribution boxes and splice box

Installation

- The ST and SC connectors are in both versions hot melt or epoxy field installable for easy installing.
- The single ST and dual SC couplers are available in single mode and mono mode to complete all OF structural hardware.
- The splice trays are easy to fix in all Nexans OF patch panels, OF ZD boxes and can distribute 12 optical fibres.
- Cable glands can be useful for entering cables or distributing fibres in to the OF patch panels and OF ZD boxes.
- Aluminium fusion splice protection protect the spliced fibres and are easily manageable in the splice tray.
- A tool is offered for easy installing the aluminium fusion splice protection.
- Splitter tube aloud to split up your cable into different patch panels.
- A blind plate completes the e-ssential patch panel when used as splice patch panel.
- Micro tubes of 0.9mm can be used to install a hot melt connector on a loose tube fibre.



LANmark-OF

Standards

International ISO/IEC 11801

LANmark-OF Fibre Accessories

Product List

Nexans ref.	Name
N102.221	Adhesive & Activator for Anaerobic Connector
N890.043	Cable gland for splitter tube
N890.022	Cover for Splice Tray N890.010 & N890.020
N205.127	Dual SC coupler MM
N205.158	Dual SC coupler SM
N441.132	Essential-OF Blind face plate (For splitter)
N890.003	Fusion Splice Alu Protection
N890.145	LANmark-OF Bend Limiting Tube
N890.147	LANmark-OF Cable gland 20mm
N890.146	LANmark-OF Cable gland 25mm
N890.144	LANmark-OF Duplex Splitter
N890.021	LANmark-OF Fusion Splice Heat Shrink Protection (45mm)
N890.024	LANmark-OF Fusion Splice Heat Shrink Protection (65mm)
N205.135	LANmark-OF MTRJ adapter Multimode
N205.131	LANmark-OF Quad LC Multimode adaptor
N205.133	LANmark-OF Quad LC Singlemode adaptor
N205.153	LANmark-OF Singlemode adaptor ST-ST
N102.214	LANmark-OF Toolkit for Anaerobic Connector (extension to hotmelt kit)
N102.220	LANmark-OF Toolkit for Anaerobic Connector (starter kit)
N205.123	LANmark-OF adaptor Multimode ST-ST
N890.045	Microtube 0.9 mm
N890.020	OF Splice Tray for 12 Fusion Spl. Heat Shrink Protection
N890.010	OF Splice Tray for 24 Fusion Spl. Alu. Protection
N102.222	Polishing Paper 1 micron for Anaerobic Toolkit (50/bag)
N102.224	Polishing Paper 12 micron for Anaerobic Toolkit (10/bag)
N102.223	Polishing Paper 3 micron for Anaerobic Toolkit (50/bag)
N890.023	Splice Holder
N890.044	Splitter tube
N102.225	Syringes for Anaerobic Toolkit (50/box)
N890.004	Tool for Aluminium Fusion Splice Protection
N102.226	Wipes for Anaerobic Toolkit (280/box)

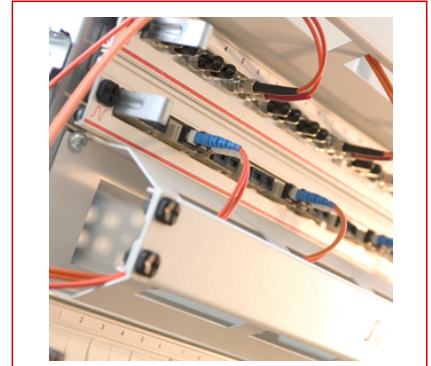
Fibre Hardware

LANmark-OF offers cutting edge hardware products including patch panels, zone distribution boxes and outlets.

Each product has been thoroughly developed to ensure best system offering while meeting stringent international standards.

Modular concept

The fully modular design allows mixing of different Snap-in adaptor types : LC, MT-RJ and SC. Benefits: up to 24 fibres for the Zone Distribution Box and 48 for the Patch Panel. Both are compatible for loose tube and tight buffer cables.



LANmark-OF Patch Panels

- Empty OF patch panels with sliding mechanism.
- Suitable for direct termination or splicing.
- Available in two versions 24 ST or modular Duplex or simplex SC, LC, or MT-RJ snap-ins.
- Inner sliding to respect bending radius of patch cord.
- LANmark look.

Description

Application

Accepting the range of ST couplers or LANmark-OF snap-ins, these patch panels with sliding mechanism facilitate front side installation.

Compatibility

Suitable for tight buffer cables (direct termination) , Loose tube cables using Splice Cassette / pigtailed terminations. Accepts pre-terminated cable assemblies.

Installation

- 19" width. 1HU
- Accommodates 24 ST or 24 LANmark-OF snap-ins (or 12DSC).
- 2 positions : flush or recessed with respect of cable bend radius.
- Comes with marking strips to number and categorise ports.



LANmark-OF

Standards

International ISO/IEC 11801

LANmark-OF Patch Panels

Product List

Nexans ref.	Name
NT13.111	LANmark-OF 24 SC/48 LC Patch Panel
NT13.115	LANmark-OF 24 SC/48 LC Service Presentation Patch Panel
N441.201	LANmark-OF 24 ST Patch Panel
NT13.313	LANmark-OF 48 MTRJ Patch Panels
N441.204 New	LANmark-OF Modular Patch Panel Black
N441.203 New	LANmark-OF Modular Patch Panel White

LANmark-OF Preloaded Patch Panel

- Preloaded patch panels for fast installation.
- Single mode or multimode quad LC or duplex SC adaptors preloaded
- Fibre organiser for fibre handling or splice cassettes pre-installed
- Available in black and white
- High density: 24 SC/ 48 LC or 48 SC/ 96 LC
- LANSense Upgradeable
- Pre-Term ready

Description

Characteristics

The patch panels are preloaded with either quad LC adaptors or duplex SC adaptors. Single and multimode options are available.

The preloaded patch panels are available in medium and high density. The medium density provides 24 SC or 48 LC connections. The connectors are installed horizontally. The high density provides 48 SC or 96 LC connections. In this case the adaptors are vertically.

The newly developed chassis of the patch panel has multiple special designed slots at the back of the patch panel to accept the Nexans' pre-terminated cables. This chassis also allows multiple ways for the fibre handling.

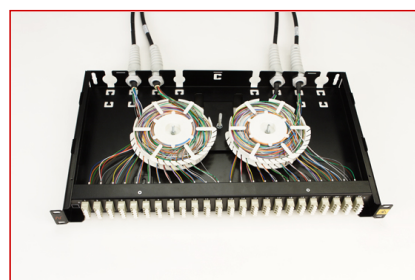
A special designed fibre organiser facilitates the fibre management inside the patch panel. The fibre organiser consists of spindles. They are pre-installed when using pre-terminated cables or for direct termination on site. For 48 fibres one level with 2 spindles are provided. For 96 fibres 2 levels of spindles with a total of 4 spindles are preloaded.

Splice cassettes and cassette cover are pre-installed for terminations with pigtails. For up to 48 fibres splice cassettes with heat shrink are pre-installed. For more than 48 fibres splice cassettes with Aluminium protection are provided. Pigtails and splice protections are not included.

The front plate can be fixed in various positions: straight or flushed. This provides maximum flexibility for the patch cord management

LANSense upgradeability

The panels are LANSense upgradeable. This unique feature provides a high level of flexibility for future upgrades without the need for an immediate investment.



LANmark-OF

Standards

International ISO/IEC 11801

LANmark-OF Preloaded Patch Panel

The standard frontplate can easily be upgraded to a LANSense PCB plate without the need for any removal or re-termination of the installed cabling. This upgrade adds a detection contact to each cabling port and an I/O connector so that the panel can be connected to the LANSense system.

Characteristics

Dimensional characteristics

Height/unit	1 U
Width	19 in
Depth	268 mm

N number codification: N441.2ANNCCFFM

Common part	N441.2
A: Colour	B: Black
	W: White
NN: number of connections	24, 48 or 96
CC: Connector type	SC or LC
FF: Fibre type	SM: Single Mode
	MM: Multimode
M: Fibre management	O : fibre organiser for pre-terminated solutions and direct termination
	H : splicing with heat shrink splice cassettes
	A: splicing with splice cassettes with Aluminium protection

List of available versions

Description	N-number	Colour	# Connectors	Connector Type	SM or MM
LANmark-OF Preloaded Patch Panel 48 LC Singlemode Fibre Organiser LSU White	N441.2W48LCSMO	White	48	LC	SM
LANmark-OF Preloaded Patch Panel 96 LC Singlemode Fibre Organiser LSU White	N441.2W96LCSMO	White	96	LC	SM
LANmark-OF Preloaded Patch Panel 24 SC Singlemode Fibre Organiser LSU White	N441.2W24SCSMO	White	24	SC	SM
LANmark-OF Preloaded Patch Panel 48 SC Singlemode Fibre Organiser LSU White	N441.2W48SCSMO	White	48	SC	SM
LANmark-OF Preloaded Patch Panel 48 LC Multimode Fibre Organiser LSU White	N441.2W48LCMMO	White	48	LC	MM

LANmark-OF Preloaded Patch Panel

LANmark-OF Preloaded Patch Panel 96 LC Multimode Fibre Organiser LSU White	N441.2W96LCMMO	White	96	LC	MM
LANmark-OF Preloaded Patch Panel 24 SC Multimode Fibre Organiser LSU White	N441.2W24SCMMO	White	24	SC	MM
LANmark-OF Preloaded Patch Panel 48 SC Multimode Fibre Organiser LSU White	N441.2W48SCMMO	White	48	SC	MM
LANmark-OF Preloaded Patch Panel 48 LC Singlemode Fibre Organiser LSU Black	N441.2B48LCSMO	Black	48	LC	SM
LANmark-OF Preloaded Patch Panel 96 LC Singlemode Fibre Organiser LSU Black	N441.2B96LCSMO	Black	96	LC	SM
LANmark-OF Preloaded Patch Panel 24 SC Singlemode Fibre Organiser LSU Black	N441.2B24SCSMO	Black	24	SC	SM
LANmark-OF Preloaded Patch Panel 48 SC Singlemode Fibre Organiser LSU Black	N441.2B48SCSMO	Black	48	SC	SM
LANmark-OF Preloaded Patch Panel 48 LC Multimode Fibre Organiser LSU Black	N441.2B48LCMMO	Black	48	LC	MM
LANmark-OF Preloaded Patch Panel 96 LC Multimode Fibre Organiser LSU Black	N441.2B96LCMMO	Black	96	LC	MM
LANmark-OF Preloaded Patch Panel 24 SC Multimode Fibre Organiser LSU Black	N441.2B24SCMMO	Black	24	SC	MM
LANmark-OF Preloaded Patch Panel 48 SC Multimode Fibre Organiser LSU Black	N441.2B48SCMMO	Black	48	SC	MM
LANmark-OF Preloaded Patch Panel 48 LC Singlemode Splicing (HS) LSU White	N441.2W48LCSMH	White	48	LC	SM
LANmark-OF Preloaded Patch Panel 96 LC Singlemode Splicing (Alu) LSU White	N441.2W96LCSMA	White	96	LC	SM
LANmark-OF Preloaded Patch Panel 48 LC Singlemode Splicing (HS) LSU Black	N441.2B48LCSMH	Black	48	LC	SM
LANmark-OF Preloaded Patch Panel 96 LC Singlemode Splicing (Alu) LSU Black	N441.2B96LCSMA	Black	96	LC	SM

E-ssential 1HU Optical fibre Patch Panel

- Empty OF patch panel without sliding mechanism.
- Suitable for direct termination or splicing.
- Can be used as splitter box.
- Available in two versions 24ST and 24 SC.
- Three positions faceplate for patch cord bending radius.

Description

Application

Nexans Essential 1HU Optical Fibre Patch Panel has been designed to support :

- up to 24 ST ports or
- up to 12 Dual SC ports.

It combines a cost effective design with high port density. It is suitable for tight buffer cables (direct termination) or loose tube cables using splice tray (N890.001).

It also can be used as a splitter(*)

Features

- 19" width
- Two versions ST and SC
- Blind face plates are available.
- 3 positions :

-flushed

-15 mm recessed

-30 mm recessed

- Easy identification : couplers are numbered on the face plate.
- Cable entrance is possible through a cable gland (PG16) or through a rectangular opening (Using tie wraps).
- Cage-nuts as well as fibre holders are included.

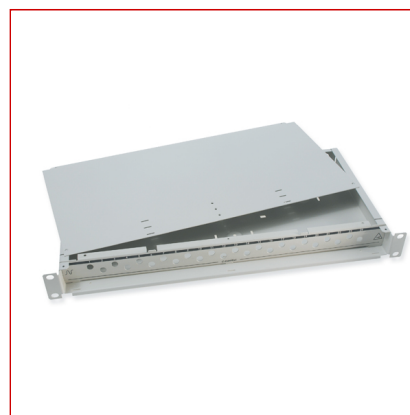
(*) splitter allows to split multitube cable to at most 6 Nexans E-ssential OF Patch Panels.

For use as splitter, you need:

-Splitter tube (N890.044)

-Cable gland for splitter (N890.043)

-Blind plate (N441.132)



essential

Standards

International ISO/IEC 11801

E-ssential 1HU Optical fibre Patch Panel

Characteristics

Dimensional characteristics

Height/unit	1 U
Width	19 in
Depth	233 mm

Usage characteristics

Component function	Patch panel
--------------------	-------------

Product List

Nexans ref.	Name	Connector type
N441.122	E-ssential OF Empty Patch Panel with SC faceplate	SC
N441.121	E-ssential OF Empty Patch Panel with ST faceplate	ST

LANmark-OF Zone Distribution box

- Empty ZD box optical fiber
- Suitable for direct termination or splicing.

Description

Application

- Designed for the installation of zone wiring, fibre to the office and to the desk

Compatibility

Suitable for tight buffer cable (direct termination) or loose tube using splice tray

Compatible with all LANmark-OF accessories

Installation

The OF zone distribution box is easy to install in the ceiling, false floor or on the wall with four fixation points in the bottom plate.

To enter the cable there is a pre-perforated hole for a cable gland PG 16 foreseen, at the backside.

There is a fixation point for the Nexans splice tray.

Printed numbering system on the cover



LANmark-OF

Standards

International ISO/IEC 11801

LANmark-OF Zone Distribution box

Characteristics

Dimensional characteristics

Depth	200 mm
Height	40.0 mm
Width	230 mm

Usage characteristics

Field of application	Indoor
Packaging	Box

Characteristics ZD box

Connector type LC

Product List

Nexans ref.	Name
N521.630	LANmark-OF modular Zone distribution box empty

Structural Hardware

- For all 45x45mm fittings
- Fits Surface Mount Boxes, Cover plates and Ducts
- Outlets include labeling and shutters
- Suitable for all snap-in adaptors.
- Easy click-in mechanism.

Description

Application

This range of outlets is suitable for any environment: ducts, cover plates and surface mount boxes (including 45 fittings). The range features Snap-in adaptors for fast and easy installation.

For the specific information on the Snap-in adaptors , refer to the corresponding datasheets.

Guarantees

- All plastic material is UL 94V0

Installation

These modular outlets fit into a complete range of international 45x45 covering plates and surface mount boxes.

For easy management and identification, the outlets are include an integrated outlet labelling system using transparent windows.

The Snap-in connectors are inserted into the modular outlet by a simple click-in mechanism.



LANmark-OF

Standards

International ISO/IEC 11801

Structural Hardware

Product List

Nexans ref.	Name
N420.035 New	Modular OF Splicing Outlet 45X45 for 2 Snap-in adaptors

Pre-Terminated Fibre Assemblies

This added-value offer enables fast network deployment and removes the requirement for specialized termination training, consumables and toolkits. Every assembly is developed and manufactured by optical engineers to individual customer requirements: cable length, connector type, fibre grade, fanouts size, ...

All LANmark-OF Pre-Term assemblies are fully terminated and tested in a quality assured factory environment. They are delivered with test results and benefit from the 25 year LANmark-OF warranty program.

LANmark-OF Pre-Term significantly reduces installation time and cost while guaranteeing full scalability and long lasting reliability for every situation whether campus, backbone, Local/Storage Area Network or Data Centre.

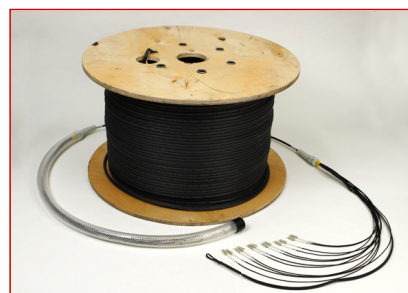


Pre-terminated Assemblies

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

Description

The solution consist of universal **indoor or outdoor cables** assembled in factory with connectors at each end. **Any type of connectors** can be used for the assembly: ST, SC, LC, MTRJ, etc. Fibre types available: 9/125 μ m, 62.5/125 μ m and laser optimised 50/125 μ m. A re-usable **pulling eye system** is positioned at the end of the cable to protect the terminations while pulling the cable through ducts. When the cable has been installed, the pulling eye system is cut off and the terminated fibres are fed into a patch panel. Since the assembly is done in factory, all pre-terminated fibre optic cables are **100% tested** and supplied with test results.



Applications

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

Applications support :

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

Benefits

- Short & reliable manufacturing lead-time
- Fast installation times
- No specialised termination training required
- No consumables, termination tool kits
- No cable preparation necessary
- No cable or connector scrap
- No termination errors on site
- Delivered fully tested, labelled and documented
- High performing connectors: Max IL 0,40dB*
- Improved end-to-end attenuation
- Up to 13 connections over 100m for 10Gbase SR
- Improved application migration
- Reduced on-site disruption and installation time
- Highly cost effective solution

*For LC-SC-ST

LANmark-OF

Standards

International ISO/IEC 11801

Pre-terminated Assemblies

Tailor made solution

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

What needs to be specified:

1. Cable type OS1-OM1-OM3
2. Fibre count: 6-12-24
3. cable length between enclosures
4. Fanout size (900 μ or 2.0 mm)
5. Connector type on each end LC-MTRJ- SC-ST
6. Use of pulling system

Nexans Cabling Solutions has expertise in quality volume manufacturing. Meticulous attention to capacity and material planning allows us to meet our committed ship dates on time. Every time. Standard product offerings are able to ship in days not weeks to your project site. By working with our sales engineers we can also provide rapid ramp-up capabilities ensuring on time delivery for your special cabling needs.

Consistent quality

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

Pre-terminated Assemblies

LANmark-OF Pre-Term specifications

LANmark-OF Pre-term combines outstanding cable performances containing high bandwidth fibre with improved performance connectors. The total control of the manufacturing process ensures consistency and reliability.

Cable Specifications

Fibre count	Diameter	Sheath	Min. bending radius
6	6,10mm	LSZH	45mm
12	6,60mm	LSZH	50mm
24	8,1mm	LSZH	50mm

Fibre count	Max Pulling force	Compression	Temp.range
6	100daN	100daN/dm	-20°C +60°C
12	140daN	100daN/dm	-20°C +60°C
24	140daN	100daN/dm	-20°C +60°C

Fibre type	Cable construction	Typical Attenuation dB/KM	
		850nm	1300nm
OS1	Tight Buffer	-	0,35
OM1	Tight Buffer	3	0,8
OM3	Tight Buffer	2.6	0,8

Connector specifications

Type	Standard Max IL	LANmark-OF Pre-term	Stand. Min RL	LANmark-OF Pre-Term
<i>Multimode</i>				
SC/PC	0,75 dB	0,4 dB	20dB	35 dB
LC/PC	0,75 dB	0,4 dB	20dB	35 dB
ST/PC	0,75 dB	0,4 dB	20dB	35 dB
MT-RJ/PC	0,75 dB	0,4 dB	20dB	35 dB
<i>Single Mode</i>				
SC/PC	0,75 dB	0,4 dB	20dB	50 dB
LC/PC	0,75 dB	0,4 dB	20dB	50 dB
ST/PC	0,75 dB	0,4 dB	20dB	50 dB
MT-RJ/PC	0,75 dB	0,4 dB	20dB	35 dB

Pre-terminated Assemblies


Improved Link loss budget

# of connectors	10Gbase SR	
	Industry Standard	LANmark-OF
2	330m	340m
4	260m	320m
6	180m	280m
8	N/A	260m
10	N/A	200m

Mechanical Performances

Min.bending radius	IEC-794-1-E10
Impacts	100 impacts of 1 N.m. IEC-794-1-E4
Operating temperatures	-20°C + 60°C
LSHF material	IEC 332-1
IP rating	23
Cable retention	IEC-794-1-E1
6 fibres	100daN
12-24 fibres	140daN

Product List

Nexans ref.	Name
 N155.T24L9L9Axxx New	LANmark-OF3 Pre-terminated cable 24 LC (900¼) - LC (900¼) LSZH
New	Pre-terminated Assemblies

Intelligent Infrastructure Management

LANsense is Nexans Intelligent Infrastructure Management (IIM) solution. It is an internet enabled hardware and software package which can automatically discover and monitor network connectivity in real-time, to ensure network connections are secure and that connectivity documentation is always 100% accurate. LANSense is vendor independent and can be retro-fitted to existing systems.

Benefits:

- Increased Security
- Cost effective change control and management
- Reduced downtime
- Asset Management
- Remote site monitoring
- the ability to integrate, control, and manage building management services (Access Control, intruder systems, CCTV, HVAC etc)

Nexans work in partnership with iTRACS, the leaders in IIM software, and offer three levels of software:

- LANSense
- LANSense Enterprise Edition
- LANSense Data Centre Edition

These software solutions can be configured with different hardware products to deliver specialist solutions for Data Centres, Enterprise, or SME customers with branch networks.

For more information on becoming a Nexans Certified LANSense Partner please contact us at ncs.uk@nexans.com



Choice of software functionality

Description

LANsense is Nexans Intelligent Infrastructure Management (IIM) solution. It is an internet enabled hardware and software package which can automatically discover and monitor network connectivity in real-time, to ensure network connections are secure and that connectivity documentation is always 100% accurate. LANSense is vendor independent and can be retro-fitted to existing systems.

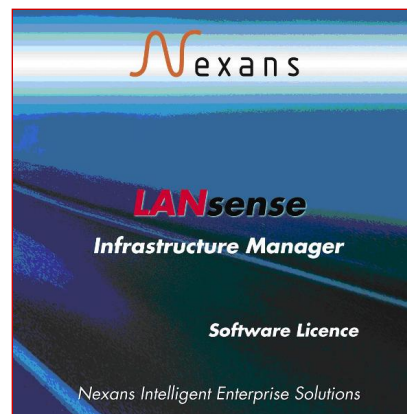
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LANsense™

Standards

International ISO/IEC 11801

LANsense Cu panel

- LANSense IIM compatible
- Empty for use with modular connectors sold separately

Description

LANsense copper patch panels carry on-board intelligence which remains dormant until enabled by LANSense analysers and software. The panels have in-built sensors to detect the connection status of each port and an I/O connector to link to the analysers.

Manufactured from steel, the panel provides a robust, high density mounting mechanism for Nexans modular connectors.



LANsense™

Standards

International ISO/IEC 11801

LANsense Cu panel



















Characteristics

Usage characteristics

I/O Connector - Panel

Type 2

Product List

Nexans ref.	Name
 N881.011	LANsense 24 Way Patch Panel for 808 connectors
 N881.051	LANsense 24 Way Patch Panel for 808 connectors
 195513-1001	LANsense 24 Way Patch Panel for 808 connectors (ITT branded)
 Substituted	
 N881.671	LANsense Angled Panel 24 Snap-In EVO Black
 N881.675	LANsense Angled Panel 24 Snap-In EVO White
 N881.681	LANsense Angled Panel 24 Snap-In GG45 Black
 N881.685	LANsense Angled Panel 24 Snap-In GG45 White
 N881.411	LANsense Empty Sliding Patch Panel for 24 EVO snap-in connectors, Black
 N881.311	LANsense Panel 24 Snap-In EVO Black
 N881.111	LANsense Panel 24 Snap-In GG45 Black
 N881.351	LANsense Upgrade Frontplate for Fixed Modular Panel 24 EVO snap-in connectors, Black
 N881.151	LANsense Upgrade Frontplate for Fixed Modular Panel 24 GG45-type snap-in connectors, Black
 N881.451	LANsense Upgrade Frontplate for Sliding Modular Panel 24 EVO snap-in connectors, Black
 N881.455	LANsense Upgrade Frontplate for Sliding Modular Panel 24 EVO snap-in connectors, White
 N881.251	LANsense Upgrade Frontplate for Sliding Modular Panel 24 GG45-type snap-in connectors, Black
 N881.255	LANsense Upgrade Frontplate for Sliding Modular Panel 24 GG45-type snap-in connectors, White
 N881.061	LANsense Upgrade for 24 port 808 Modular Panel

Cu Patch Cords

- 9th pin for port detection
- Ensures maximum channel performance
- Cat 5e & Cat 6 & Cat 6A/10G
- Screened & Unscreened
- Available in different lengths

Description

The Nexans LANsense patchcord range is suitable for use in voice or data network installations. The 4 pair construction and robust RJ45 connectors provide for long term network reliability. The patchcords have an unobtrusive external probe built into the plug boot which mates with the sensors built into the patch panels. The patchcords can be supplied in different lengths and with different colour boots to allow differentiation of services and workgroups.













LANsense™

Standards

International EN 50265-2-1;
ISO/IEC 11801
National TIA/EIA-568-B.2

Cu Patch Cords

Product List

Nexans ref.	Name	Category	Length (m)	Screen
 LDWPCS010L0U10	LANsense 5e FTP PVC P/Cord 1m	Cat. 5e	1	FTP
LDWPCS020L0U10	LANsense 5e FTP PVC P/Cord 2m	Cat. 5e	2	FTP
LDWPCS030L0U10	LANsense 5e FTP PVC P/Cord 3m	Cat. 5e	3	FTP
LDWPCS050L0U10	LANsense 5e FTP PVC P/Cord 5m	Cat. 5e	5	FTP
LDWPCS070L0U10	LANsense 5e FTP PVC P/Cord 7m	Cat. 5e	7	FTP
 LDWPCU100L0U10	LANsense 5e UTP PVC P/Cord 10m	Cat. 5e	10	UTP
 LDWPCU010L0U10	LANsense 5e UTP PVC P/Cord 1m	Cat. 5e	1	UTP
 LDWPCU020L0U10	LANsense 5e UTP PVC P/Cord 2m	Cat. 5e	2	UTP
 LDWPCU030L0U10	LANsense 5e UTP PVC P/Cord 3m	Cat. 5e	3	UTP
 LDWPCU050L0U10	LANsense 5e UTP PVC P/Cord 5m	Cat. 5e	5	UTP
 LDWPCU070L0U10	LANsense 5e UTP PVC P/Cord 7m	Cat. 5e	7	UTP
 LEWPCS100L0U10	LANsense 6 FTP PVC P/Cord 10m	Cat. 6	10	FTP
LEWPCS010L0U10	LANsense 6 FTP PVC P/Cord 1m	Cat. 6	1	FTP
LEWPCS020L0U10	LANsense 6 FTP PVC P/Cord 2m	Cat. 6	2	FTP
LEWPCS030L0U10	LANsense 6 FTP PVC P/Cord 3m	Cat. 6	3	FTP
LEWPCS050L0U10	LANsense 6 FTP PVC P/Cord 5m	Cat. 6	5	FTP
 LEWPCS070L0U10	LANsense 6 FTP PVC P/Cord 7m	Cat. 6	7	FTP
195600-5100-3	LANsense 6 UTP PVC P/Cord 10m	Cat. 6	10	UTP
195600-5010-3	LANsense 6 UTP PVC P/Cord 1m	Cat. 6	1	UTP
195600-5020-3	LANsense 6 UTP PVC P/Cord 2m	Cat. 6	2	UTP
195600-5030-3	LANsense 6 UTP PVC P/Cord 3m	Cat. 6	3	UTP
195600-5050-3	LANsense 6 UTP PVC P/Cord 5m	Cat. 6	5	UTP
195600-5070-3	LANsense 6 UTP PVC P/Cord 7m	Cat. 6	7	UTP
 N882.22GCOS	LANsense 6A/10G FTP LSZH P/Cord 1m	Cat. 6a	1	FTP
N882.22GEOS	LANsense 6A/10G FTP LSZH P/Cord 2m	Cat. 6a	2	FTP
N882.22GFOS	LANsense 6A/10G FTP LSZH P/Cord 3m	Cat. 6a	3	FTP
N882.22GHOS	LANsense 6A/10G FTP LSZH P/Cord 5m	Cat. 6a	5	FTP
LDWPCS100L0U10	LANsense Cat 5e FTP PVC P/Cord 10m	Cat. 5e	10	FTP

Fibre Panels

- LANSense IIM compatible
- 24, 48 or 96 fibre in 1HU versions
- Available for LC, SC, and MTRJ connectors

Description

The LANSense range of patch panels provide a high density transition between building cables and active equipment.

Very high density versions are available with up to 96 fibre (48 ports) with LC for data centre environments.

Standard 24 or 48 fibre version with SC or MTRJ connections are also available.

A variety of cable entry holes are located at the rear of the panels to allow a wide range of cable variants to be accommodated. Cable entry hole blanks and fibre management are included with the panel. A complimentary range of cable glands, that are supplied separately, ensure that cables are secured and enter the panel in a controlled manner. A simple to remove lid gives easy access to the panel interior.









LANSense™

Standards

International ISO/IEC 11801

Fibre Panels

Product List

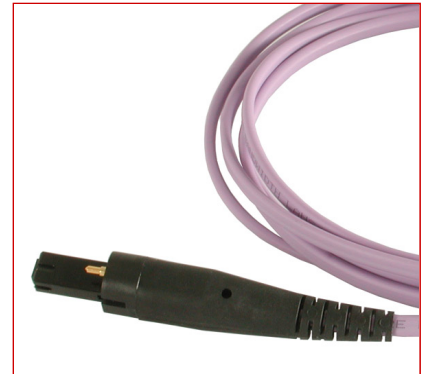
Nexans ref.	Name	Connector type	I/O Connector - Panel
 N883.121 To be removed	LANsense 24 SC Multimode Patch Panel	SC	Type 1
 N883.131 To be removed	LANsense 24 SC Singlemode Patch Panel	SC	Type 1
 N883.123	LANsense 48 SC Multimode Patch Panel	SC	Type 2
 N883.133 New	LANsense 48 SC Singlemode Patch Panel	SC	Type 2
 N883.223 New	LANsense 96 LC Multimode Patch Panel	LC	Type 2
 N883.233 New	LANsense 96 LC Singlemode Patch Panel	LC	Type 2

Fibre patchcords

- Additional copper pin for port detection
- High bandwidth OM3 fibre
- Available with LC, MTRJ, or SC connectors

Description

The MTRJ, SC and LC LANSense patch cord uses the standard MTRJ, SC and LC duplex connector, enabling high-density fiber connections to be achieved. The MTRJ, SC and LC LANSense cord however has an over-boot to incorporate the sensing capability of the LANSense products. The LANSense patch cords are available in both high bandwidth OM3 and single-mode OS1 fibre types and so offer a comprehensive range of patch cords for interfacing with the latest network equipment.







LANSense™

Standards

International ISO/IEC 11801

Fibre patchcords

Product List

Nexans ref.	Name	Length (m)	Connector type
N884.5LLP1	LC Duplex LANsense P/Cord 50/125 OM3 - 1m	1	LC
N884.5LLP2	LC Duplex LANsense P/Cord 50/125 OM3 - 2m	2	LC
N884.5LLP3	LC Duplex LANsense P/Cord 50/125 OM3 - 3m	3	LC
N884.5LLP5	LC Duplex LANsense P/Cord 50/125 OM3 - 5m	5	LC
 N884.5MMP1 To be removed	MT-RJ Duplex LANsense P/Cord 50/125 OM3 - 1m	1	MT-RJ
 N884.5MMP2 To be removed	MT-RJ Duplex LANsense P/Cord 50/125 OM3 - 2m	2	MT-RJ
 N884.5MMP3 To be removed	MT-RJ Duplex LANsense P/Cord 50/125 OM3 - 3m	3	MT-RJ
 N884.5MMP5 To be removed	MT-RJ Duplex LANsense P/Cord 50/125 OM3 - 5m	5	MT-RJ
N884.5CCP1	SC Duplex LANsense P/Cord 50/125 OM3 - 1m	1	SC
N884.5CCP2	SC Duplex LANsense P/Cord 50/125 OM3 - 2m	2	SC
N884.5CCP3	SC Duplex LANsense P/Cord 50/125 OM3 - 3m	3	SC
N884.5CCP5	SC Duplex LANsense P/Cord 50/125 OM3 - 5m	5	SC

LANsense Analysers

- 1U version up to 256 ports
- 6U version from 512 to 2048 ports
- Master and Link variants enabling upto 20480 ports per IP address
- Virtually unlimited scalability

Description

A LANSense analyser is required to monitor all network ports, record changes in the events log, and continuously update and maintain the connectivity database. It connects to the equipment presentation panel or integration strip and the horizontal distribution panel using I/O cables, and is in turn connected to the LANSense cable management SQL database.

It should be noted that 2 analyser ports (one for the horizontal connection and one for the system connection) are required for each user channel to be monitored.

Master and Link analysers can be connected to form a star wired network capable of monitoring up to 20480 ports in a "patch zone" using a single IP address. Multiple patch zones can be connected to a single database providing almost unlimited scalability.



LANsense™

Standards

International UL and CSA approval

LANsense Analysers

Product List

Nexans ref.	Name	I/O Connector - Analyser
LXWANLL0101 Substituted	LANsense 1U Link Analyser	Type A
LXWANLM0101 Substituted	LANsense 1U Master Analyser	Type A
LXWANLS0101 Substituted	LANsense 1U Standalone Analyser	Type A
195560-0603 Substituted	LANsense 6U Link Analyser	Type A
195560-0602 Substituted	LANsense 6U Master Analyser	Type A
195560-0601 Substituted	LANsense 6U Standalone Analyser	Type A
N870.1UL New	LANsense Analyser 1U Link - MarkII	Type B
N870.1UM New	LANsense Analyser 1U Master - MarkII	Type B
N870.6UL New	LANsense Analyser 6U Link - MarkII	Type B
N870.6UM New	LANsense Analyser 6U Master - MarkII	Type B

- Next Generation Analyser
- Seperate analyser and display functions
- Increased density
- Supports additional functionality
- Simplified and more flexible system design

Description

The Next Generation Analyser is an exciting new development which opens up many possibilities for efficient analyser network design and advanced functionality to support the LANsense platform

Key features

- System Master Card (SMC) running Linux OS
- Self diagnostic test and health status
- No Cooling required
- Detects up to 8 connections on a single port
- 9th wire electrostatic protection
- Analyzer Card (AC) hot swap support
- Automated firmware distribution/installation
- Configuration by any Windows XP device
- Multiple deployment options
- Software control of Smart Patch Panel (SPP) interfaces
- "Plug and Play" deployment



LANsense™

Standards

International ISO/IEC 11801

Product List

Nexans ref.	Name
N870.PSU2 New	LANsense NGA 2 Amp Power Supply Unit
N870.3UC New	LANsense NGA 3U Card Cage
N870.3UL New	LANsense NGA 3U Card Cage Link Cover
N870.3UM New	LANsense NGA 3U Card Cage Master Cover
N870.PSU7 New	LANsense NGA 7 Amp Power Supply Unit
N870.ACC New	LANsense NGA Analyser Card
N870.SPP New	LANsense NGA HMI Panel 1U
N870.SMC New	LANsense NGA System Master Card
N870.UPP New	LANsense NGA USB Interface Adaptor

LANsense I/O and Master/Link cables

- I/O cables for analyser to panel connection
- Master/Link for Master analyser to Link analyser connection

Description

LANsense accessory cables are divided into two sub families:

Master / Link cables are used to interconnect Master and Link and analysers to form a star wired analyser network capable of monitoring a patch zone of up to 20480 ports. Multiple patch zones can exist within a LANsense database

I/O cords are used to connect LANsense patch panels or integration strips to the analysers. The 12 way adaptor and 3 x 8 Way splitter are used to maximise the usage of analyser ports within an installation.



LANsense™

Standards

International ISO/IEC 11801

LANsense I/O and Master/Link cables

Product List

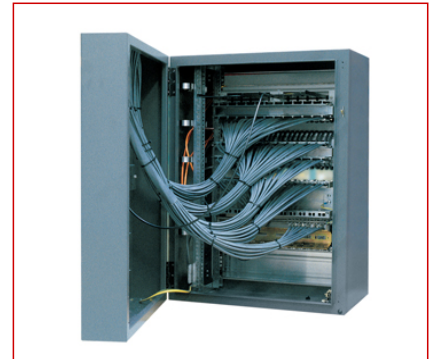
Nexans ref.	Name	I/O Connector - Analyser	I/O Connector - Panel	Mat length (m)
LXWCCCL160XOO	Analyser M/L Cord 16.0m	N/A	N/A	16
LXWCCCL030XOO	Analyser M/L Cord 3.0m	N/A	N/A	3
LXWCCCL040XOO	Analyser M/L Cord 4.0m	N/A	N/A	4
LXWCCCL080XOO	Analyser M/L Cord 8.0m	N/A	N/A	8
196102-0019	I/O Cord 24 way - 1.9m	Type A	Type 2	1.9
LXWCCP021A20	I/O Cord 24 way - 2.1m	Type A	Type 1	2.1
196102-0028	I/O Cord 24 way - 2.8m	Type A	Type 2	2.8
LXWCCP030A20	I/O Cord 24 way - 3.0m	Type A	Type 1	3
196102-0040	I/O Cord 24 way - 4.0m	Type A	Type 2	4
LXWCCP043A20	I/O Cord 24 way - 4.3m	Type A	Type 1	4.3
N871.CIO0010 New	LANsense I/O Cable PVC Type C Rev 2 10m	Type C	Type 2	10
N871.CIO003 New	LANsense I/O Cable PVC Type C Rev 2 3m	Type C	Type 2	3
N871.CIO005 New	LANsense I/O Cable PVC Type C Rev 2 5m	Type C	Type 2	5
N871.NIOH0010	Mark II I/O Cable 24 way - 1.0m	Type B	Type 2	1
N871.NIOH0100	Mark II I/O Cable 24 way - 10.0m	Type B	Type 2	10
N871.NIOH0020	Mark II I/O Cable 24 way - 2.0m	Type B	Type 2	2
N871.NIOH0050	Mark II I/O Cable 24 way - 5.0m	Type B	Type 2	5
N871.NIOHA2X12	Mark II I/O Cable Adaptor 12 way - 150mm	Type B	N/A	0.2
N871.NIOH0102	Mark II I/O Cable Splitter 3 x 8 way - 350mm	Type B	N/A	0.4

Contact

LAN Systems (Nexans Cabling Solutions)
Phone: +44 (0) 1256 486640
ncs.uk@nexans.com

General hardware & accessories

Nexans have a complete range of accessories and hardware to complete the LAN system



Empty Snap-In panels

- Compatible with all Snap-In connectors.
- 24 Snap-In ports with shutters.
- Sliding mechanism available.
- Clip-On mechanism.
- Earthing and grounding features using Nexans exclusive design.

Description

Nexans offers a full range of modular patch panels for 24 Snap-In connectors

This range is suitable for all Snap-In connectors in Nexans product portfolio (LANmark-7, LANmark-6 10G, LANmark-6, and LANmark-5). These panels use an exclusive Nexans Clip-On system to secure earthing and grounding of shielded connectors while allowing ease of installation. The offering is Nexans branded and shows a perfect visual homogeneity, when they are used with other Nexans products in a cabinet.

The patch panels are designed for 19 inch racks or cabinets, have 1 HU height and support the following common features:

- 24 Ports with shutters
- Designed for shielded and unshielded Snap-In connectors
- Compatible with all Nexans Snap-In format connectors
- Clip-On mechanism to enhanced earthing and grounding and cable fixation using Nexans exclusive design
- Rear cable management
- Strong metalwork

Nexans offers three main panel versions:

- Panels with sliding mechanism to allow quick installation and easy maintenance from front end, using a flexible label for the numbering system
- Fixed Panels, using printed numbering systems for labelling
- Angled Panels to support high density environments (V-Panel)



LANmark

Standards

International Manufacturer specification

Empty Snap-In panels

Product List

Nexans ref.	Name
N521.881 New	Empty Fixed Patch Panel 24 Snap-In LANsense upgradable Black
N521.663	Empty Patch Panel 24 Snap-In with sliding mechanism
N521.861 New	Empty Patch Panel 24 Snap-In with sliding mechanism LANsense upgradable Black
N521.865 New	Empty Patch Panel 24 Snap-In with sliding mechanism LANsense upgradable White
N521.661BK New	Empty Patch Panel 24 Snap-In without sliding mechanism Black
N521.661	Empty Patch Panel 24 Snap-In without sliding mechanism White
N521.671	Modular Angled Patch Panel 24 Snap-In (V-Panel), Black
N521.675	Modular Angled Patch Panel 24 Snap-In (V-Panel), White

Empty Patch Panels for Keystone Connectors

- Compatible with Nexans keystone connectors
- Designed for Essential-6 range
- 24 ports on 1HU
- Tie wrap strain relief
- Earthing and grounding features
- Available in black or white finish

Description

Application

The modular patch panels for keystone connectors are fixed panels based on 19" frame dimensions and can house up to 24 keystone connectors on 1HU.

Design

The patch panels are designed to accommodate Nexans Essential-6 keystone connectors. The metalwork at the back of the panel is made of unpainted steel to enable automatic earthing and the necessary grounding 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. They are available in either black (N521.660BK) or grey-white finish (N521.660).

Installation

The Nexans keystone connectors can be easily inserted by a simple "one-click" move, without the need of any tool. They are also easy to remove, when necessary.

The integrated cable fixing plate with tie wrap strain relief ensures cable management and retention.

The panels are supplied with fixings.

An optional 19" outrigger can be used for easy termination access (N500.120).



essential-6

Standards

International ISO/IEC 11801

Empty Patch Panels for Keystone Connectors

Product List

Nexans ref.	Name
N521.660BK New	Empty Patch Panel for 24 keystone connectors black

Empty 808 Panels

Empty modular patch panels for LANconnect UTP & FTP 808 connectors

- 24 or 48 ports on 1HU
- unscreened & screened
- choice of labelling styles
- Future upgrade options for LANsense intelligence

Description

These high quality, high-density patch panels are designed to accommodate individual 808 connectors, available separately. The panels are available in 2 styles to support various labelling formats:

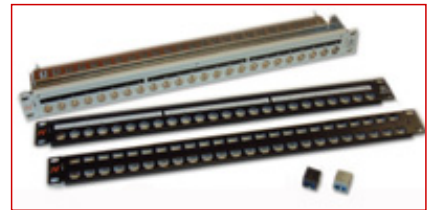
- 3 labelling windows
- numbered strips 1-24

The panels for the shielded range of connectors also include an additional grounding bar and mounting studs on the panel itself.

All panels are supplied with fixings and earthing screw.

The panels are suitable for all 808 connector types.

White versions are available on request.



LANconnect

Standards

International ISO/IEC 11801

Empty 808 Panels

Characteristics

Construction characteristics

Colour

Black

Product List

Nexans ref.	Name	Screen	Number of ports
N808.2391 New	Extension for modular patch panel N808.2311 to house up to 48 x 808 connectors	UTP & FTP	48
N808.2212 New	Modular empty patch panel 1HU for 24 screened 808 connectors, 3 Windows	FTP	24
N808.2211 New	Modular empty patch panel 1HU for 24 screened 808 connectors, numbered strips	FTP	24
N808.2112 New	Modular empty patch panel 1HU for 24 unscreened 808 connectors, 3 Windows	UTP	24
N808.2111 New	Modular empty patch panel 1HU for 24 unscreened 808 connectors, numbered strips	UTP	24
N808.2321 New	Modular empty patch panel 1HU for 48 x 808 connectors	UTP & FTP	48
N808.2311 New	Modular empty patch panel 1HU, LANsense upgradeable, for 24 x 808 connectors, numbered strips	UTP & FTP	24

UK Mounting Hardware for LANmark / Essential

To support the LANmark-5, LANmark-6 and Essential range of products Nexans has developed a set of UK mounting hardware. The mounting hardware is common to all products ranges.

Description

LJ6 Modular Outlet

LJ6C dimensions (25mm x 37mm) Single Modular shuttered outlets accommodate one Snap-in connector. Supplied in UK White.

25 x 50 Modular Outlet

Single Modular shuttered outlet 25mm x 50mm suitable to accommodate one Snap-in connector. Supplied in UK White.

Modular Outlet fits Nexans single and double gang cover plates.

Single and Double Cover Plates

Single and double gang cover plates supplied in UK White. Flat and beveled version is available.

Single and Double back box

Single and double gang back box supplied in UK White.

Angled modular outlet

The angled modular shuttered outlet 50x50mm can accommodate 2 snap-in connectors and is supplied in UK White. It can be used to create horizontal or vertical quad outlets.



Standards

International ISO/IEC 11801

UK Mounting Hardware for LANmark / Essential

Product List

Nexans ref.	Name
N423.650 New	Flat Modular outlet 25x50 for 1 Essential-6 keystone connector
N423.640 New	Flat Modular outlet LJ6C for 1 Essential-6 keystone connector
N424.203	LJ6C Angled Module
N424.113	UK 25x50 Flat Module for Snap-ins
N424.204N New	UK Angled 25x50 Module for 1 snap-in
N423.540U	UK Angled Module for 2 snap-ins
N424.533 New	UK Back Box - double gang
N424.532 New	UK Back Box - single gang
N424.023	UK Cover Plate - Double Gang
N424.531 New	UK Cover Plate - Double Gang - Bevelled
N424.013	UK Cover Plate - Single Gang
N424.530 New	UK Cover plate - Single Gang - Bevelled
N424.103	UK Half Blank
N424.213	UK LJ6C Flat Module for snap-ins
N424.003	UK Quarter Blank

Hardware-LANmark/Essential

- For all 45x45mm fittings.
- Modules, Cover Plates, Surface Box
- Modules include labeling and shutters.
- Suitable for all snap-in connectors.
- Angled modules for restricted depth.
- Easy click-in mechanism.

Description

Application

This range of outlet mounting hardware is suitable for all 45mm fittings and includes cover plates, flat & angled modules for Snap-in connectors, and surface mount boxes.

For the specific information on the Snap-in connectors, refer to the corresponding data sheets.

There are two different faceplates to support all environments:

- The straight version
- The angled version. It offers the ideal solution for cable trays and floor boxes, where depth is restricted. Shutters prevent dust entrance.

Guarantees

- All plastic material is UL 94V0

Installation

These modular outlets fit into a complete range of international 45x45 covering plates and surface mount boxes.

For easy management and identification, the outlets include an integrated outlet labelling system using transparent windows.

The Snap-in connectors are inserted into the modular outlet by a simple click-in mechanism.




Standards

International Manufacturer specification

Hardware-LANmark/Essential

Product List

Nexans ref.	Name	Width (mm)	Colour	Height (mm)	Depth (mm)
 N423.541N	Angled Modular outlet 45 ivory	45	Ivory	45.0	36
N423.540N	Angled Modular outlet 45 white	45	White RAL 9010	45.0	36
N200.051	Coverplate for 45 outlet ivory	80	Ivory	80.0	
N200.050	Coverplate for 45 outlet white	80	White RAL 9010	80.0	
N423.550	Straight Modular outlet 45	45	White RAL 9010	45.0	
N200.115	Surface Mounted Box ivory	82	Ivory	82.0	50
N200.116	Surface Mounted Box white	82	White RAL 9010	82.0	50

US Mounting Hardware for LANmark/Essential

- US format
- 45x45 and 45x60 series of Cover Plates, for up to 6 snap-in connectors
- Suitable for fiber and copper
- Includes fixings </>
- All plastic material is UL 94V0
- Colour white

Description

Application

This range of mounting hardware is suitable for US fittings and includes:

- 2 types of cover plates
 - N422.001: 45x45mm inner format, with integrated labelling system
 - N423.001: 60x45mm inner format, with integrated labelling system
- 20x45mm module for 2 snap-in connectors (N421.610)
- 20x45mm blanking module (N420.001)
- 2.5mm blank insert (N421.001)

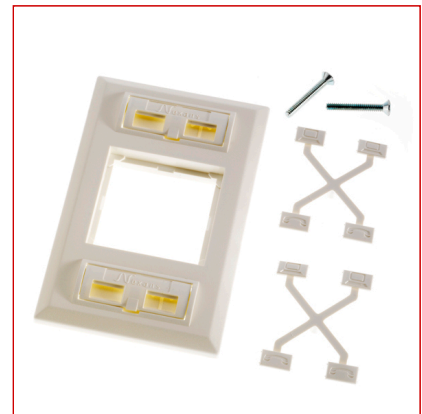
Detailed information can be found on the corresponding datasheets.

Guarantees

- All plastic material is UL 94V0

Installation

- The cover plates are all supplied with fixing screws.
- All modules can be inserted in the cover plates by a simple click-in mechanism.






Standards

International UL and CSA approval
National UL 94 V0

US Mounting Hardware for LANmark/Essential

Product List

Nexans ref.	Name	Width (mm)	Colour	Height (mm)	Depth (mm)
 N421.001	2.5mm Blank insert, for US cover plate	45	White RAL 9010	2.5	6
 N420.001	45x20 Blanking module for US cover plate	45	White RAL 9010	20.0	26.5
 N421.610	45x20 Module for 2 Snap-in connectors for US cover plate	45	White RAL 9010	20.0	16.5
N422.001	US Cover plate for 45x45 Outlet with labelling system	70.5	White RAL 9010	115.0	14
N423.001	US Cover plate for 60x45 Outlet with labelling system	70.5	White RAL 9010	115.0	14

UK Mounting Hardware for 808

A range of empty hardware to mount the 808 style connector.

Description

Range includes:

LJ6C

25 x 50 Modular Outlet

Single and Double Cover Plates

Blanks

Please note that the hardware for LANconnect connectivity may not be compatible with hardware for LANmark connectivity.



LANconnect

Standards

International Manufacturer
specification

UK Mounting Hardware for 808

Product List

Nexans ref.	Name	Colour
N808.3203	Blank insert LJ6C for 808 Cover Plate, UK White	White
N808.3206	Cover Plate 808 UK flat double gang for 4xLJ6C, UK White	White
N808.3204	Cover Plate 808 UK flat single gang for 1xLJ6C, UK White	White
N808.3205	Cover Plate 808 UK flat single gang for 2xLJ6C, UK White	White
N808.5231	Modular outlet 25x50mm, straight, for 1x 808 connector, UK White, with Grey Shutter	White
N808.3202	Modular outlet LJ6C 25x38,5 straight, for 1x 808 connector, Black, with Black Shutter	Black
N808.3201	Modular outlet LJ6C 25x38.5 straight for 1x 808 connector, UK White, with Grey Shutter	White
N808.3208	Wall plate 85x85 for 1x 808 connector UK White, with Shutter	White
N808.3209	Wall plate 85x85 for 2x 808 connector UK White, with Shutters	White

Euro Hardware for 808

Range of empty hardware for 808 connectors. The angled facias provide the added benefit of reduced cable bend radius requirements in the backbox and less strain for the patchcords.

Description

European hardware is typically based on either 45x45mm or 50x50mm dimensions.

The 45 mm x 45 mm facias are designed for mounting in standard European electrical outlets.

Adapters are available to convert 45x45mm modules into a 50 x 50 fitting.

The facias are suitable for all 808 connector types.



LANconnect

Standards

International ISO/IEC 11801

Euro Hardware for 808

Product List

Nexans ref.	Name	Colour
195500-0053 To be removed	80x80 Facia Euro Dual Surround (suitable for 50x50 or 6CE Facias) for 808	White
N808.3220	Adaptation ring 50x50 to 45x45 for 808, White	White
N808.3223	Modular Outlet 45x45, angled, for 2x808 connectors, with shutters, White	White RAL 9010
N808.3221	Modular Outlet 45x45, straight, for 1x808 connector, with shutter, White	White RAL 9010
N808.3222	Modular Outlet 45x45, straight, for 2x808 connectors, with shutters, White	White RAL 9010
N808.3214	Modular Outlet 50x50, angled, for 2x808 connectors, with shutters, Ivory	White RAL 1013
N808.3211	Modular Outlet 50x50, angled, for 2x808 connectors, with shutters, White	White RAL 9010
N808.3212	Modular Outlet 50x50, straight, for 2x808 connectors, without shutters, Ivory	White RAL 1013
N808.3210	Modular Outlet 50x50, straight, for 2x808 connectors, without shutters, White	White RAL 9010

Universal Zone Distribution Box

- Designed as consolidation point.
- Compatible with all snap-in connectors.
- 12 snap-in ports with shutters.
- Easy to install min. depth 45 MM.
- Pre perforated opening for cable entrance.

Description

Nexans introduces a new universal zone distribution box.

Designed for the installation of a consolidation point, the zone distribution box significantly improves the flexibility of desk location in the offices. It is particularly useful in an open office where the flexibility of relocating outlet in the work area is required.

The new Nexans branded product is easy to install in the ceiling, in the false floor or on the wall.

As such it allows the full implementation of a 3 or 4 connectors model Nexans channel.

The new product is compatible with all snap-in connectors in Nexans product portfolio. It uses an exclusive Nexans technology to install the connectors.

- up to 12 ports with shutters included.
- new clip on mechanism :enhanced earthing and grounding features
- with Nexans exclusive design.
- Compatible with all Nexans snap-in format connectors.
- back and bottom entry : two pre- perforated opening at the back side and one pre-perforated opening on the bottom plate improve the flexibility in the cable entry possibility.
- foam protection against dust on back side entry.
- tie wrap holes to fix the cable.
- printed numbering system.



Standards

International ISO/IEC 11801

Universal Zone Distribution Box

Characteristics

Construction characteristics

Material	Steel
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Usage characteristics

Field of application	Fix installations
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Product List

Nexans ref.	Name	Length (mm)	Width (mm)	Colour	Height (mm)
N42i.101	LANmark Industry iConnectBox DIN-Rail for 6 Snap-In	104	50	Black	150.0
N521.600	Universal Zone Distribution Box	230	200	White RAL 9002	40.0

Patch Guides & Cable Management

- 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

Patch Guides & Cable Management

Product List

Nexans ref.	Name	Colour
N102.105BK	1HU Patch Guide with rings, Black	Black
N102.105	1HU Patch Guide with rings, White	White RAL 9002
N102.117BK	1HU Universal Patch Guide with front cover, Black	Black
N102.117	1HU Universal Patch Guide with front cover, White	White RAL 9002
N102.127BK	2HU Universal Patch Guide, Black	Black
N102.127	2HU Universal Patch Guide, White	White RAL 9002
N109.130 To be removed	Cable Guide with Clip on	White RAL 9002
N424.512	Cable management plate for Essential Rear Connect Panels N424.xxx	Black
N102.115BK	Letterbox Patch Guide 1HU Black	Black

Cabinets - Quick Mount

Cabinets and Enclosures

- 19" cabinet and extension 42 HU 800X800
- flat pack : easy and quick installation
- exclusive automatic earthing system
- security
- complete range of accessories

Description

Features

High Quality Cabinet for installation of Nexans Cabling Solutions Products.

Extremely easy and fast to install and hence very cost effective, thanks to

- Delivery in separate parts which can be handled by only one person
- Fast and flexible mounting within a few minutes
- Open structure which allows a free accessibility from all sides
- Easy to add or remove products after the cabinet has been installed
- Automatic earthing
- IP 20 (can be upgraded to IP 30 by adding an extra roof)
- Possibility to fix on the roof one to 8 individual fan
- Easy to add extensions or to replace panels
- Front and rear frames which can be installed in 3 different positions
- Glass mixed front door
- Only one standard tool required
- No small loose parts
- Secure your installation : front and rear door with eurolock and inside opening system for side panels

Light weight cabinet.

All parts are packed in 6 small boxes which are very easy to manoeuvre.

Several accessories are available for enhanced functionality.

Door in tinted safety glass.



Standards

International ISO/IEC 11801

Cabinets - Quick Mount

Characteristics

Dimensional characteristics

Width	800 mm
Approximate net weight	145.0 kg
Depth	800 mm

Product List

Nexans ref.	Name
N340.103 New	EXTENSION FOR QUICK MOUNT III 42HU 800x800
N340.003 New	QUICK MOUNT III 42 HU 800x800

Cabinets - Wall Mountable

Cabinets and Enclosures

Wall Mountable

- 3 parts 19" wallmount 18HU
- Easy installation

Description

A range of wall mountable cabinets for locations where space is a premium. Includes standard 19" cabinets and empty enclosers suitable for copper or fibre accessories.

Features

- Hinged 3 part design for easy access
- extremely accessible swing frame design. (140mm for back part)
- Top and Bottom cable entry equipped with brushes
- Same functionalities as full size cabinet : 19" mounting frame
- Cable fixing plates on the rear panel for tie wrap
- Hole for up to 3 individual fans on top and bottom
- 60 Kg Load
- Included a 1/1 scale template paper for screw hole preparation before installation
- vertical metal patch guide system on the front for easier handling
- Ideal for locations where space is at the premium
- security with a lock on the door
- tinted safety glass mixed door
- dimensions : 18HUX500mmx650mm




Standards

International Manufacturer specification

Cabinets - Wall Mountable

Product List

Nexans ref.	Name
N102.118 New	Wall Mount Cabinet 18 HU Mixed Door New Concept
 N201.119	Wall mount 12 HU Cabinet
N102.191	Wall mount. Cab. 18 HU 892x500, mixed door

Cabinet Accessories

Cabinet and Enclosure Accessories Range

Complete Range : shelves, spare parts, fans, powerbar,...

Description

Complete range of accessories for 19" cabinets and enclosures

- Spare parts
- Shelf
- Powerbar
- Ventilator Fan
- ...

Standards

International ISO/IEC 11801

Cabinet Accessories

Product List

Nexans ref.	Name
N108.109 Substituted	100 x Caged nut (M6) + screw (M6*12)
N108.109BK New	100 x Caged nut (M6) + screw (M6*12), black
N203.167	19 inch SHELF FOR 12/18HU CABINET
N303.162	19 inch shelf (36-42HU)(max. 70 kg, 2 fixation points)
N303.163	19" SHELF (MAX. 70 KG) WITH 4 FIX.POINTS
N109.207	1HU blind plate
N109.207BK New	1HU blind plate, black
ISCS71003WMP01 Substituted	1U Blank Panel
N333.165	4 x ADJUSTABLE FEET FOR QUICK-MOUNT
N343.206	8xpatch ring
N203.158	CLOSET DOC.HOLDER
N333.207	DOOR HANDLE FOR REAR PANELS OF Quick Mount
N203.156	NEON LAMP FOR CABINETS
N203.165	Power Bar 19 inch 1 HU 6 UK outlet
N203.160	Power Bar 19 inch 1 HU 6 UTE outlet + autofuse
N203.160A	Power Bar 19 inch 1 HU 6 schuko outlet + autofuse
N303.164	SLIDING SHELF 19 inch pull out 1/3 maximum load of 30 Kg
N101.001	Signal grounding key
N201.171	Ventilator fan (110 V) + Power cable
N203.171	Ventilator fan (230 V) + Power cable
N340.185	additional plinth for quick mount
N343.209	additional roof (IP 30) for quick mount
N343.204	base for quick mount II & III
N343.208	closing plate for quick mount II
N343.102	connection kit for quick mount II & III extension cabinet
N343.201	front door for quick mount II & III
N343.202	rear door for quick mount II
N343.213	rear door for quick mount II & III
N343.205	roof for quick mount II & III
N343.203	side panel for quick mount II & III

Miscellaneous Accessories

Nexans have a complete range of accessories and hardware to complete the LAN system.

- Tools
- Retrofit Hoods
- etc

Description



Standards



International ISO/IEC 11801

Miscellaneous Accessories

Product List

Nexans ref.	Name	Function of the accessory
N429.620	Metal clip for Snap-In to keystone	Adaptator
N429.625	Red clip for EVO Snap-In connector to keystone format (wall thickness 1,5-1,75 mm)	Adaptator
N800.305	Snap-In face plate for BTicino Living International range	Adaptator
 N800.306	Snap-In face plate for BTicino Light range	Adaptator
N429.626	Blue clip for EVO Snap-In connector to keystone format (wall thickness 2,0-2,25 mm)	Adaptator
N429.627 New	Yellow clip for EVO Snap-In connector to keystone format (height 19,7 mm)	Adaptator
 N423.110	Plate for up to 6 Snap-In connectors for GES6 Ackermann floor box	Floor Plates
 N423.111	Plate for up to 9 Snap-In connectors for GES9 Ackermann floor box	Floor Plates
 N423.120	Plate (left part) for up to 6 Snap-In connectors for GB2 Electraplan floor box	Floor Plates
 N423.121	Plate (right part) for up to 6 Snap-In connectors for GB2 Electraplan floor box	Floor Plates
 N423.122	Plate for up to 9 Snap-In connectors for GB3 Elektraplan floor box	Floor Plates
 N423.130	Plate for up to 9 Snap-In connectors for GE12 RK5 Obo Bettermann floor box	Floor Plates
 N423.140	Plate for up to 9 Snap-In connectors for IK-1 Van Geel floor box	Floor Plates
N108.111 New	Dzus quarter-turn fastener	Miscellaneous
N420.655	Blank Snap-In filler for unused port, white	Protective cover
N421.701	White shutter for Snap-In structural hardware	Protective cover
 N421.701R	Red shutter for Snap-In structural hardware	Protective cover
 N421.701B	Blue shutter for Snap-In structural hardware	Protective cover
 N421.701G	Green shutter for Snap-In structural hardware	Protective cover
 N421.701Y	Yellow shutter for Snap-In structural hardware	Protective cover
 N421.701GR	Grey Shutter for Snap-In Structural Hardware	Protective cover
 N421.701BK New	Black shutter for Snap-In structural hardware	Protective cover
N420.050 New	Dust cap for RJ45	Protective cover
 N420.655BK New	Blank Snap-In filler for unused port, black	Protective cover
N111.H2S	Hood - LANconnect 5e FTP Black (Pack of 50)	Retrofit Hood
N111.H2B	Hood - LANconnect 5e FTP Blue (Pack of 50)	Retrofit Hood
N111.H2V	Hood - LANconnect 5e FTP Green (Pack of 50)	Retrofit Hood
N111.H2F	Hood - LANconnect 5e FTP Grey (Pack of 50)	Retrofit Hood
N111.H2O	Hood - LANconnect 5e FTP Orange (Pack of 50)	Retrofit Hood
N111.H2R	Hood - LANconnect 5e FTP Red (Pack of 50)	Retrofit Hood
N111.H2J	Hood - LANconnect 5e FTP Yellow (Pack of 50)	Retrofit Hood
N500.120	19" support tray for termination	Tool
N102.107	Tool - LSA+ IDC punchdown tool	Tool

Miscellaneous Accessories

Nexans ref.	Name	Function of the accessory
N422.117	Tool - LANmark-7 Easy Termination tool	Tool
 N422.118	Tool - Set of spare knives for LANmark-7 Easy Termination tool	Tool
N420.567	Tool - Universal Comfort tool for Snap-in connector	Tool
N808.6000	Universal Termination Tool for 808 connector	Tool
N808.6020	360° Connector Crimp Tool for 808 connector	Tool
N808.6010	360° Sheath splitting tool for 808 connector	Tool
 N420.110	Tool - Nexans cable stripper, 110 punchdown tool	Tool

Active Fibre & Media Conversion

- Copper/Fibre Media Conversion
- use fibre for external links but maintain copper patching
- mini-switch multiple ports
- ideal for remote external links or long distances
- Outlet mounting in standard backboxes

Description

For details of our Active FibreSwitch and media conversion products [click here](#)

Note that you will be leaving the "e-services" site.

Please use your 'back' button to return.



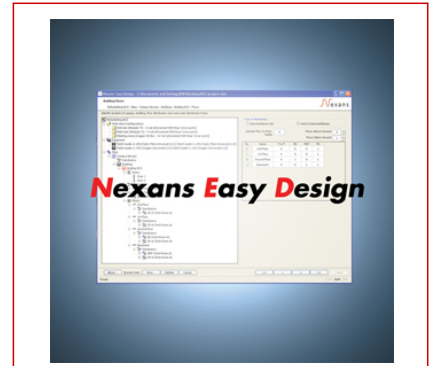
Standards

International ISO/IEC 11801

Services

Adding value to Local Area Networks is about much more than high quality products.

Nexans provide a range of tools and services, either directly or in conjunction with business partners, to provide an unrivalled service & support package to meet the demands of both installers and end users alike.



System Warranty Programs

A parts guarantee is one thing. But what happens when you put them together?

Many companies may be specialised in one area but what happens if you have an infrastructure problem between buildings – who is responsible for deciding if it is the copper or fibre campus link at fault.

With a Nexans solution you don't have to worry because we cover the complete cabling system, regardless of transmission medium or the building topology:

- Copper, and Fibre
- Horizontal, Backbone or Campus

Nexans understands different cabling technologies and the building infrastructure, so that's what we cover with the warranty.

Description

A company's communication system is crucial to its industrial and commercial success. Every single day, every company depends on the quality and distribution of information.

With global experience, technological mastery in various building architecture, and a broad portfolio of products, Nexans matches the solution to your needs.

Nexans empowers your local area networking infrastructure to do better and faster business.

Offering Quality of Service to your users and customers is the reference for your success. Quality of Transmission, the performance of your infrastructure, becomes more important and critical.

Our state-of-the-art solutions are your best guarantee for :

- performance
- reliability
- value for money



Standards

International Manufacturer specification

Network Design Tools

Nexans Visio Templates (NVT) version 3.00 (NEW) is now available for download to enable users to create fast professional cabinet layout drawings and includes new enhanced features.

NVT3 can be freely downloaded and includes now 6 intelligent product libraries (stencils) working under MS Visio to easily create professional Distributor layouts.

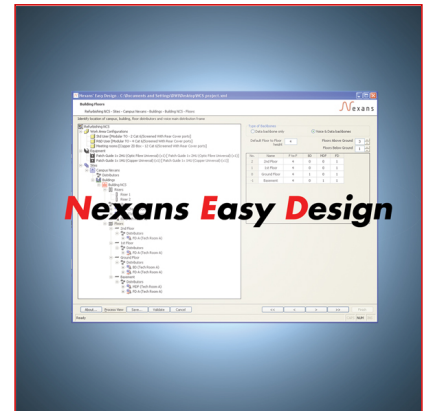
Discover our Nexans Easy Design 1.0 software

NED saves time, reduces design and BoM errors.

NED is using a simple intuitive user interface to quickly collect the cabling project data and by using the shapes from the Nexans Visio Template library plus a new NED library it will provide the user with:

- The Building configuration layouts
- The Distributor rack configurations including data about horizontal distribution and cords
- The full and complete Bill of Material of the cabling system

Description



Standards

International
specification

Manufacturer

Network Design Tools

Product List

Nexans ref.	Name
NED	Nexans Easy Design
NVT	Nexans Visio Template 3.00

LANmark Audit Services

A LANmark Audit Service is a network 'health check' that will provide Network Managers with a baseline to make informed investment decisions:

- identify bottlenecks
- avoid downtime
- plan efficient implementation of new applications
- prioritise upgrades to match business objectives

Description

Network Managers are facing increasingly more difficult decisions when considering network upgrades. Technologies are converging, applications and users have become more demanding, and with the increase in company relocations and mergers, managers often find themselves inheriting an unknown entity. The task to identify the real bottlenecks so that existing capacity can be optimised and investment prioritised where there is a genuine need, becomes a serious headache.

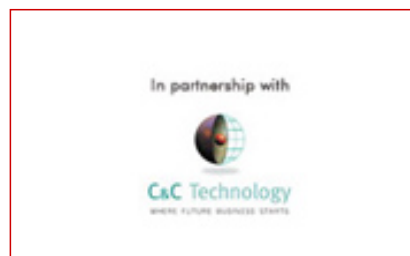
Nexans solution is a range of new service products sold under the LANmark cabling system brand. Initially two services have been launched:

- LANmark Physical Audit
- LANmark Logical Audit

The audit is a four stage process covering:

1. Planning & Assessment - full understanding of client needs
2. Data Capture - site evaluation, testing, and monitoring
3. Analysis - interpretation of the site data
4. Reporting - final report and documentation to client

The final report will not only contain useful benchmark documentation such as inventory lists and cabinet layout diagrams, but depending on the level selected, will also include bandwidth and traffic analysis, packet loss and errors, and provide utilisation information together with proposed solutions for optimisation.



Standards

International Manufacturer specification

LANmark Audit Services

Product List

Nexans ref.	Name
N750.752	Logical Audit Service
N750.751	Physical Audit Service

Training Services

Nexans Cabling Solutions has elaborated its training program.

Trainings are given at the Competence Centre in Brussels, as well as on demand at your premises worldwide or in our Local Training centres in different regions.

Training Services

Description

No matter what your level is, we'll find the best training program meeting all of your needs. The LAN technology evolution requires a wide and varied range of skills. No two projects are the same and our partner's position is important in this business. The aim is to find the synergy between your needs and our training program.

In order to make this "level training" program possible, the trainings have been divided into different modules which are all addressing different topics aimed at different people.

Installers

Project Managers

Designers, Consultants and Architects

Commercial Staff that would like to improve their sales techniques
End Users

Anybody involved in cabling that would like to improve his knowledge and skills in this domain

Trainees can obtain a "Nexans Cabling Solutions Expert level certification" when they succeed in the 3-day Expert training.

It is clear that a new VAR, Distributor, or Certified System Installer will be required to succeed in the Expert training. If the new partner has no experience it is recommended that he will first attend the basic training. If the partner has previous experience, he can directly follow the Expert training.

Training Modules Overview

Commercial:

Module 3: *Nexans Copper Cabling Solutions*

Module 8: *Nexans Optical Fibre Cabling Solutions*

Expert Knowledge:

Module 1: *Premises Cabling Standards*

Module 2: *Parameter for Copper Cabling*

Module 4: *Installation Rules and Guidelines*

Module 7: *Optical Fibre Theory and Principles*

Module 12: *Design Training: Project Study*

Module 14: *Design Training: Project Engineering*

Module 16: *Project Management*

Hands-on:

Module 5: *Installation Practice & Testing Class D-E Links*

Module 6: *Installation Practice & Testing Class F Links*

Module 9: *Fibre Installation Practice with Direct Termination*

Module 10: *Fibre Installation Practice on Fusion Splicing*

Module 11: *Testing Optical Fibre Links*

Module 13: *Nexans Easy Design Visio Software*



Standards

International Manufacturer
specification

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Global expert in cables and cabling systems

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