

Nexans



LAN Systems
Feb 2015

Table of content

Nexans	8
Nexans UK	9
Symbols	10
LANsystems Introduction	11
LAN Cabling Systems	22
Copper	23
Category 5e	24
LANmark-5 Cable	25
LANmark-5 Snap-In connector	28
LANmark-5 Patch Panels	30
LANmark-5 Outlet 45x45	32
LANmark-5 UniBoot Patch Cords	34
Essential-5 Cable	37
Essential Snap-In Connector	39
Essential-5 Keystone Connector	41
Essential-5 Patch Panels	43
Essential Outlet Modules	45
Essential-5 Patch Cords	47
Category 6 / 6A	49
LANmark-6 Cable	50
LANmark-6 Snap-In Connector	53
LANmark-6 UniBoot Patch Cords	55
LANmark-6 10G Cable	58
LANmark-6 10G Snap-In Connector	61
LANmark-6 10G UniBoot Patch Cords	64
LANmark-6A Cable	66
LANmark-6A Snap-In Connector	69
LANmark-6A Ultim UniBoot Patch Cords	72
Essential-6 Cable	75
Essential-6 Keystone Connector	77
Essential-6 Patch Panels	79

Essential-6 Outlet Modules	81
Essential-6 Patch Cords	83
Category 7 / 7A	86
LANmark-7 Cable	87
LANmark-7 GG45 Connector	89
GG45 8C PCB jack	91
LANmark-7 Patch Cords	93
LANmark-7 Splitter Cords	95
LANmark-7A Cable	97
LANmark-7A GG45 Connector	98
LANmark-7A Patch Cord	101
Modular Patch Panels	103
Modular Patch Panels for Snap-In Connectors	104
Modular Patch Panels for Keystone Connectors	106
Modular Outlets	108
European Mounting Hardware for LANmark	109
German Mounting Hardware for LANmark	110
UK Mounting Hardware for Essential	111
UK Mounting Hardware for LANmark	113
US Mounting Hardware for LANmark	115
3rd Party Compatible Mounting Hardware	117
European Mounting Hardware for Essential Keystone	119
US Mounting Hardware for Essential	121
Voice grade	123
Voice Cables	124
IDC connectivity and accessories	126
Voice Patch Panels	128
Voice Patch Cords	130
Tools & Accessories	132
Cable ties	133
Coloured Latch Protectors for LANmark UniBoot Patch Cords	135
Coloured Shutters for Snap-In Structural Hardware	137
Tools	139

Keystone Clips	141
Pre-terminated Copper	143
LANmark Pre-Term Bundles	144
LANmark Pre-Term Units	146
LANmark-6A Pre-Term Multipair Cat 6A RJ45 Jack-Jack	148
Patch Panels for LANmark Copper Cassettes	152
Optical Fibre	153
Fibre Cables	154
Optical cable specifications	155
LANmark-OF Tight Buffer Universal	158
LANmark-OF Micro-Bundle Extractable	161
LANmark-OF Micro-Bundle Indoor	163
LANmark-OF Micro-Bundle Universal (24F-96F)	166
LANmark-OF Micro-Bundle Universal (4F-12F)	168
LANmark-OF Micro-Bundle Outdoor	170
LANmark-OF UD PE	172
LANmark-OF MC PE	175
LANmark-OF MD PE/PE	177
LANmark-OF UC PE	179
LANmark-OF UG/MG PE	182
LANmark-OF UC LSZH	184
Cables - LANmark-OF ZC (2.0 mm) LSZH	187
Cables - LANmark-OF ZC (2.8mm) LSZH	189
Fibre Connectors & Connector Accessories	191
LANmark-OF Anaerobic Connectors - Bulk Packaging	192
LANmark-OF Anaerobic Connectors - Individually Packed	194
LANmark-OF Hot Melt Connectors	195
Connector Tools & Accessories	196
Pre-Terminated Fibre Assemblies	198
LANmark-OF Universal SC/LC Pre-Terminated Fibre Assembly	199
MPO System	202
LANmark-OF Female MTP-LC Assemblies	204
LANmark-OF MTP-MTP Patch Cords	207

LANmark-OF Plug&Play Patch Panels	209
LANmark-OF Adapter Plates	210
LANmark-OF Plug&Play Module	211
LANmark-OF MTP-MTP Pre-Term	213
Fibre Patch Panels	216
LANmark-OF Sliding Patch Panels	217
LANmark-OF Angled Preloaded Patch Panel	218
LANmark-OF Sliding Preloaded Patch Panels	220
Essential-OF Fixed Patch Panel	223
Outlets	225
LANmark-OF Zone Distribution box	226
Structural Hardware	228
Patch Cords	230
LANmark-OF High Density Slimflex Patch Cord Duplex LC OM3	231
LANmark-OF High Density Slimflex Patch Cord Duplex LC OM4	234
LANmark-OF High Density Slimflex Patch Cord Duplex LC Singlemode	237
LANmark-OF OM1 Patch Cords	240
LANmark-OF OM3 Patch Cords	242
LANmark-OF OM4 Patch Cords	244
LANmark-OF Singlemode Patch Cords	246
LANmark-OF Slimflex Patch Cord Duplex LC OM3	248
LANmark-OF Slimflex Patch Cord Duplex LC OM4	251
LANmark-OF Slimflex Patch Cord Duplex LC Singlemode	254
Pigtails & Splicing Materials	257
LANmark-OF Splicing Accessories with Aluminium Protectors Preloaded Sliding Panel	258
LANmark-OF Splicing Accessories with Aluminium Protectors Snap-In Panel	261
LANmark-OF Splicing Accessories with Heatshrink Protectors Preloaded Sliding Panel	264
LANmark-OF Splicing Accessories with Heatshrink Protectors Snap-In Patch Panel	267
Splicing Materials & Accessories	270
LANmark-OF Pigtails Maxistrip Set of 12 Colours	272
LANmark-OF Pigtails Maxistrip	274
LANmark-OF Pigtails Tight Buffer 1m-2m	276
LANmark-OF Pigtails Tight Buffer Set of 12 Colours	278

LANmark-OF Pigtailed Tight Buffer	280
Adaptors	282
LANmark-OF Snap-In Adaptor	283
Standard Adaptors	284
Tools & Accessories	286
LANmark-OF Cleaning Tools	287
LANmark-OF Fibre Accessories	288
Intelligent Infrastructure Management	290
LANsense Software	291
LANsense EMAC Products	292
LANsense Sliding Fibre Panels	295
LANsense Copper Patch Panels	297
LANsense Copper Patch Cords	299
LANsense Fibre Patch Panels	301
LANsense Fibre Patch Cords	303
LANsense Analysers	305
LANsense Next Generation Analyser	307
LANsense I/O and Master/Link cables	309
LANsense Integration Strips	311
Secure IT Environment	312
Secure Fibre Products	313
Secure Lock LC Keys	314
Secure Lock LC Locking Plugs	315
Secure Lock LC Patch Cords	316
Industrial LAN & Harsh Environments	318
LANmark Industry Field Terminable Plugs	319
LANmark Industry Copper cables	320
LANmark Industry Optical Fibre cables	322
LANmark Industry DIN-Rail Outlets and boxes	324
LANmark Industry IP65/67 outlets	325
LANmark Industry patch cord RJ45 IP67/IP20 Cat.6	327
LANmark Maritime Copper cables	329
General Accessories & Cabinets	330

Accessories for LANmark High-Density Racks and Frames	331
LANmark High-Density Racks and Frames for Data Centres	332
Patch Guides, Blank Panels & Cable Management	334
LANmark Zone Distribution Boxes	336
Cabinets - Quick Mount	338
Cabinets - Wall Mountable	340
Cabinet Accessories	342
Miscellaneous Accessories	344
Software, Training, & Services	346
Warranty Services	347
Network Design Tools	348
Training Services	350
Industrial and Office Switches	352
Active Ethernet Systems for Harsh Environments (-25...+70°C)	353
Active Ethernet Systems for Harsh Environments (IEC61850-3/-40 ...+85°C)	354
FTTD/FTTO Desk Systems	355
FTTO MicroSwitch Systems (Accessories)	356
FTTO Microswitch Systems (230VAC) Gigabit Ethernet, managed	357
FTTO Microswitch Systems (48VDC), Gigabit Ethernet, managed, Power over Ethernet (PoE+)	358
SFP Transceiver 100 Mbps	359
SFP Transceiver 1000 Mbps	360

Nexans

Nexans is the worldwide leader in the cable industry

With energy as the basis of its development, Nexans is a global player in the infrastructure, industry, building and Local Area Network (LAN) markets.

As a worldwide leader in the cable industry, it offers an extensive range of cables and cabling systems to raise **industrial productivity, improve business performance, enhance security, enrich the quality of life, and assure long-term network reliability.**

With an industrial presence in 40 countries and commercial activities worldwide, Nexans employs 23,700 people and had sales in 2010 of 6 billion euros. Nexans is listed on NYSE Euronext Paris, compartment A. More information on www.nexans.co.uk

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 especially designed for the demanding railroad environment.

And to meet diverse needs of incumbent and new telecoms operators, Nexans has customized solutions aimed at lowering capital expenditure and operating costs.

For the world's busy airports, we offer cables and cabling systems for energy and communication networks, terminals, baggage handling systems, runway lights, control towers, etc.

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, medical and wind applications, 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.

From standard products to renewable energy solutions, these products contribute to the sustainable buildings of the future.

Local Area Networks













Nexans provides copper and optical fiber cabling systems for new resource-intensive applications, like Data Centers, Security services, and Storage Area Networks.

Nexans' advanced solutions are handling core business data, protecting operations in sensitive conditions, and giving organizations highspeed transmission and the ability to protect and retrieve vital information.

Nexans UK

Nexans UK provides a full range of cables, cabling solutions and accessories to customers in a wide variety of industries including energy networks, building market, rail, handling, telecoms and oil and gas. Nexans UK has a head office and logistics centre in Milton Keynes, Nexans Cabling Solutions (LAN Solutions) offices are situated in Basingstoke, Nexans Power Accessories (a subsidiary of Euromold) in Castleford near Leeds and Tri-wire are located in Normanton.

Symbols

Mechanical resistance to impacts	
Gases toxicity	
RoHS conform	
Mechanical resistance to impacts (IEC 60794-1-E4)	
Ambient installation temperature, range	
Minimum dynamic operating bending radius	
Flame retardant	
Minimum static operating bending radius	
Fire retardant	
Storage temperature, range	
Operating temperature, range	
Gases corrosivity	

LANsystems Introduction

Introduction

Modern structured cabling systems for Local Area Networks (LANs) are in demand wherever data is stored, shared or transferred. LAN cabling systems are considered permanent infrastructure of single or multiple buildings, and therefore must comply with current standards regarding system architecture and channel bandwidth, as well as installation.

LAN system connections are arranged using modern high-capacity components, and designed to be adaptable to meet today's bandwidth needs as well as evolving, higher bandwidth applications of the future. Also, LAN topology and architecture should be sufficiently flexible to easily support the ongoing movement of employees and entire departments.

LAN system needs explained

LANs need to provide the following benefits:

- high capacity communication lines to facilitate a rapid response to growth in a company's data requirements; growth;
- ability to support a wide range of network applications, depending on the System Class, by using standards for data transfer, channel length and connection interfaces;
- well-developed and flexible architecture allowing various network configurations to support new LAN equipment;
- ability to increase the number of nodes using the cabling system's reserves planned for at the design stage;
- reliability offered by resilient backbones, which allow bypassing of damaged network segments;
- high performance, allowing long-term use of the system with easy migration paths

How Nexans addresses LAN needs

Nexans Cabling Solutions (NCS) provides exceptional infrastructure design, products, maintenance and support for LANs worldwide. Nexans' products set the standards in their class. The company constantly improves its products and technologies at its own research facility, aided by professionals in the field of data transfer systems and solutions.

Every Nexans' LAN component meets all current standards, yet at the same time, are unique creations in design, features and customer advantages. The company is among the world leaders in the telecommunications equipment market.

Automated assembly processes for the most sensitive cable communication equipment ensure high quality installation. And superior line and channel properties help ensure a level of reliability exemplified by a 25-year warranty on applications and component quality. Official Certified System Partners also offer a highly competitive labour-cost warranty.

LAN Standards

International LAN standards

One of the principal international documents defining LANs is ISO/IEC 11801. This is a joint standard by the International Standards Organisation (ISO) and the International Electrotechnical Commission (IEC). ISO/IEC 11801 sets a standard for structured cabling systems installed in customers' buildings and premises. The requirements apply primarily to administrative or commercial structures. In modern office facilities, however, it is typical to exchange data with a warehouse or production facility, and the recommendations in ISO/IEC 11801 cover such applications as well.

The standard defines the main characteristics of cabling systems including its architecture, cables and connectors, cable parameters, as well as the length and bandwidth of links and channels.

In order to understand the principles of selecting and using cabling systems for transferring data, voice, video or any other information, it is important to read the standards and recommendations in the September, 2002, edition of ISO/IEC 11801, as well as the amendments of 2010. This section provides a brief overview of these requirements as applied to the products in this catalogue.

LAN Topology and Architecture

The basis of LAN topology is depicted by the master-slave star architecture, also known as 'tree' topology. Junctions in such architecture are the distributors, and connecting and/or switching equipment supporting various distribution roles.

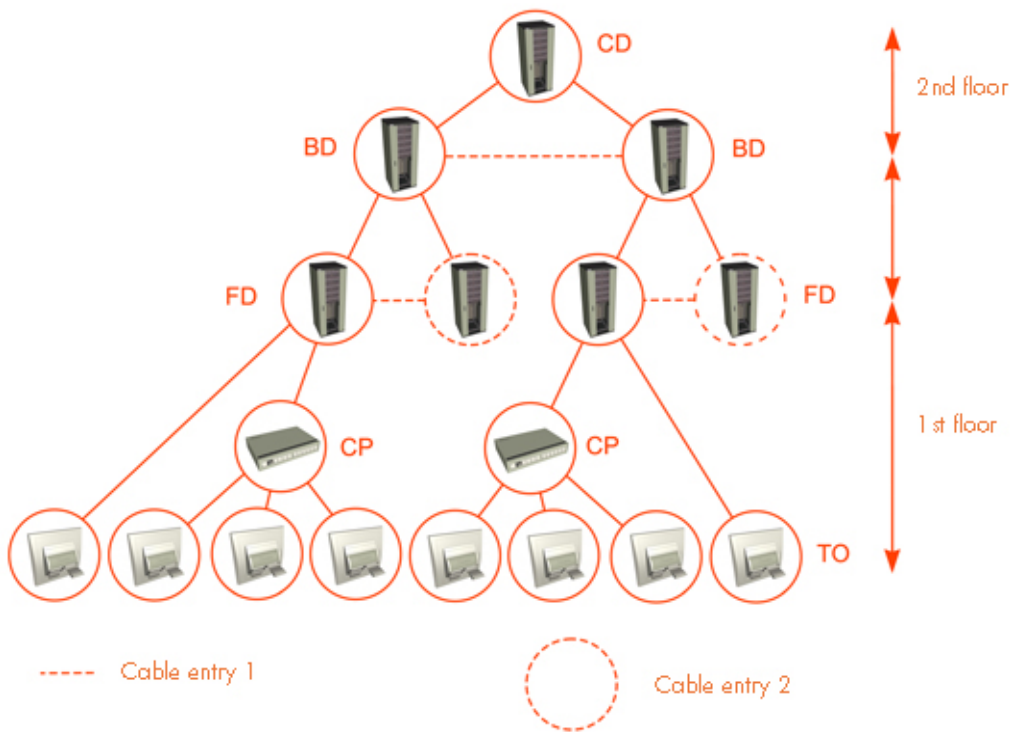


Fig. 1. Hierarchy of a typical LAN cabling system.

- CD – Campus Distributor
- BD - Building Distributor
- FD – Floor Distributor
- CP – Consolidation Point
- TO – Telecommunications Outlet

Structured cabling connects switches, computers and increasingly, devices like telephones and IP cameras. LANs should therefore have a high degree of flexibility to support widely diverse connections as well as the ability to respond promptly to changeable requirements for the physical channel configuration.

Distributors

Patch panels are mounted on racks or in cabinets, and can also be installed beneath floors or behind walls. Normally, the cabinets also house power supply units and various accessories facilitating labels and administration. The cabling system distributors are usually installed in separate technical rooms.

A LAN serving a multi-storey building may have split backbones, each one independent but still forming a star hierarchy. Should the need arise, its communication lines can be directly connected to another backbone. It is possible to reduce the number of backbone links and distributors depending on available space and the number of users. Certain distributors of various levels can also be combined into one. In order to improve the system's reliability, distributors of one level, together with connected lines, can be replicated in various parts of the building. In this case, the user's telecommunication outlets will be connected to separate distributors.

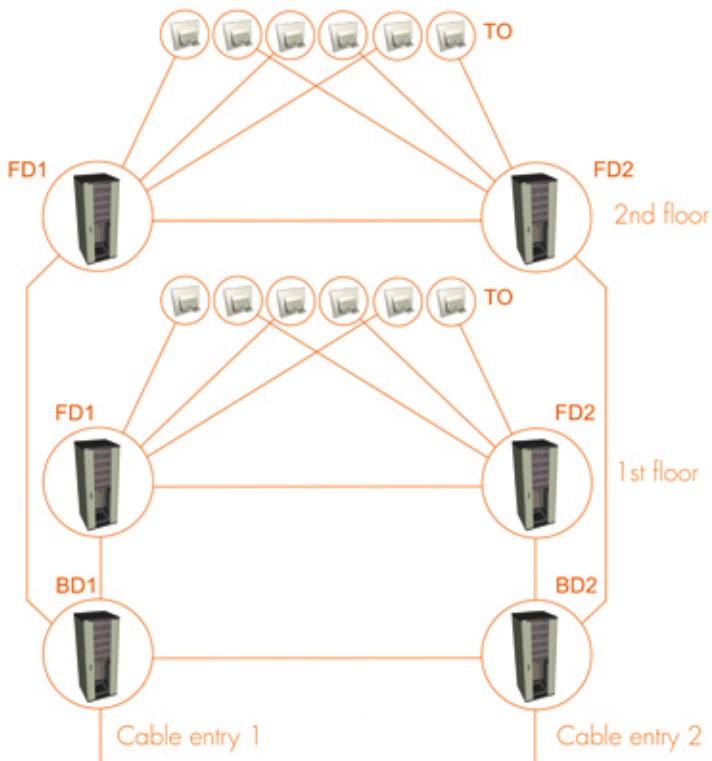


Fig. 2. Hierarchy of a typical LAN cabling system.

BD1,2 - Building Distributor
 FD1,2 - Floor Distributor
 TO - Telecommunications Outlet

In cases where two or more buildings are connected using a single cabling infrastructure, the LAN will have three sections: campus backbone, building backbone, and horizontal cabling (Fig.3).

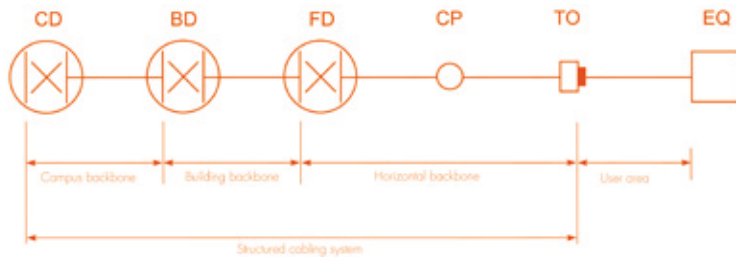


Fig. 3. Hierarchy of a typical LAN cabling system.

CD - Campus Distributor
 BD - Building Distributor
 FD - Floor Distributor
 CP - Consolidation Point
 TO - Telecommunications Outlet
 TE - Terminal Equipment

Backbones

The Campus backbone connects the Campus distributor with the Building distributors through panels and switches, to which the cables are connected; and patch cords or jumpers. ISO/IEC 11801 provides for entry points to the backbone which facilitate the entry and termination of cables inside the building. These include cables supporting telephone, Internet, cable TV, or technical monitoring systems.

The campus distributor can be housed in the same structure as the building distributor, or even in the same technical room as the floor distributor. Such technical rooms are called equipment rooms, and its respective requirements are set out by ISO/IEC TR 14763-2 (Fig.4).

The building (or vertical) backbone connects separate floor distributors to the building distributor. The building backbone consists of internal trunk cables, patch panels and patch cords for connections within the building distributor.

Horizontal cabling (or floor-by-floor distribution) connects the floor distributor with desktop or telecommunication outlets (TO's). A consolidation point can also be part of the horizontal cabling in cases of zonal distribution.

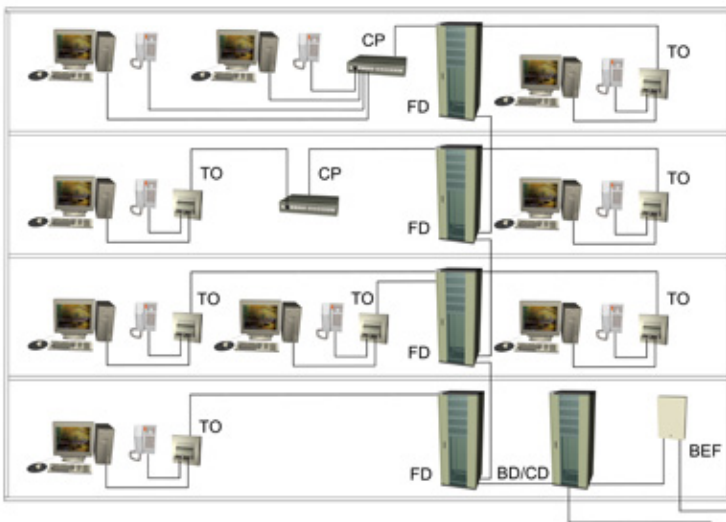


Fig. 4. Location of distributors in a typical cabling system within a building.

- CD- Campus Distributor
- BD – Building Distributor
- FD – Floor Distributor
- CP – Consolidation Point
- TO – Telecommunication Outlet
- ER – Equipment Room
- BEF – Building Entrance Facility

Cross- and direct-connect explained

The connection between active equipment and backbone or horizontal cables can be build with a degree of flexibility. The most flexible solution is the cross-connect (see Fig.5).

In addition to improving system administration, this solution allows the splitting of specialists' areas of responsibility and facilitates equipment maintenance. However, adding connectors to the communication channel can impair its characteristics.

The alternative to a cross-connect is an interconnect (Fig.6 - next page.)

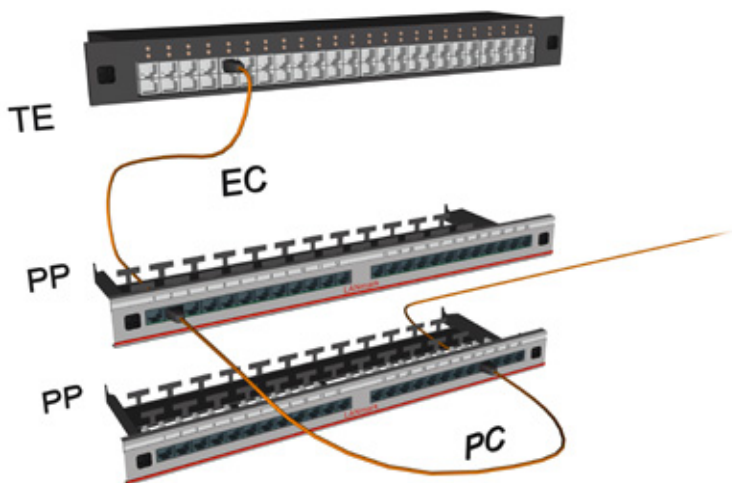


Fig. 5. Example of cross-connect type

TE – Telecommunications Equipment
 PP – Patch Panel
 EC – Equipment Cord
 PC – Patch Cord

In addition to backbones, the standard specifies connections to the desktop or Work Area. ISO/IEC TR 14763-2 requires up to 10m² for the Work Area, i.e. where the end-user equipment is connected to the telecommunication outlets. In certain cases, the Work Area can be organised more compactly, providing 4-6 m² per user. According to ISO/IEC 11801, at least two telecommunication outlets must be provided for each user.

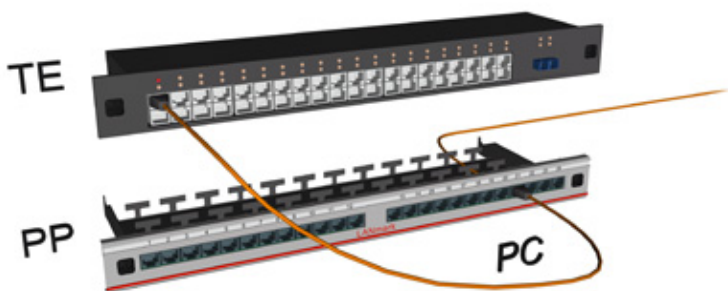


Fig. 6. Example of interconnect type

TE – Telecommunications Equipment
 PP – Patch Panel
 EC – Equipment Cord
 PC – Patch Cord

The number of Floor Distributors (FD) depends on the area to be covered or the number of workplaces per area. Generally, the standard recommends at least one FD for every 1 000 m² of office area.

The physical length of a horizontal copper channel is maximized to 100 m. The total length of sections including backbones should not exceed 2 000 m.

Designing LANs for high speed

Supporting high speed protocols such as Fast Ethernet, 100Base-TX and Gigabit Ethernet 1000Base-T requires a minimum of Class D performance. In order to meet Class D requirements, the components of Cat. 5e cabling should adhere to specifications of the second edition of the ISO/IEC 11801 standard, issued in 2002. As an alternative, installing Class E, Ea, F and Fa systems within a horizontal cabling are permissible: these require components of Cat. 6, 6A, 7 and 7A respectively. These solutions provide a high bandwidth reserve for future applications.

Nexans Cabling Solutions offers LANmark-5, 6, 6A, 7 and 7A systems. Detailed product information for these systems can be found in this catalogue's respective sections.

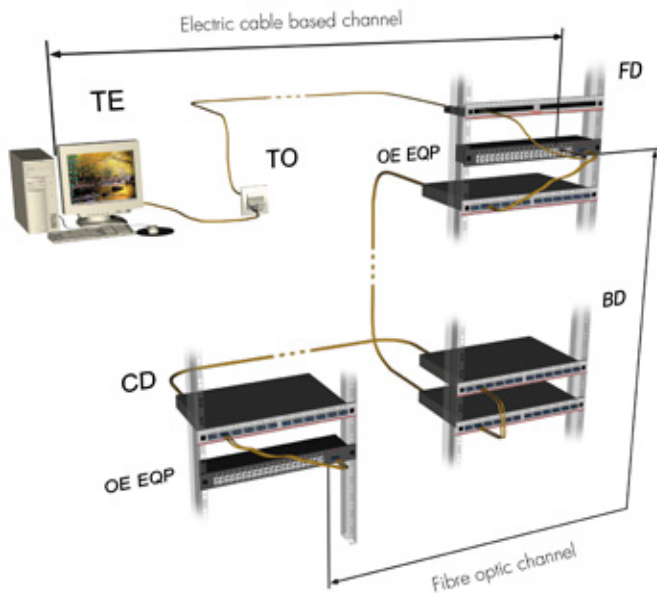


Fig. 7. The use of transfer medium in a typical LAN cabling system.

- CD – Campus Distributor
- BD – Building Distributor
- FD – Floor Distributor
- CP – Consolidation Point
- TO – Telecommunication Outlet
- TE – Terminal Equipment
- OE EQP – Opto-electronic equipment

The most important general requirements of ISO/IEC 11801:2002 for twisted pair media are:

- Cables used for Class D, E, Ea, F and Fa systems must have rated characteristic impedance of 100 Ohms;

- Connectors at the 'TO' side must correspond to connector standard RJ45 (IEC 60603-7) for Cat. 5e, 6 and 6A, and to connector standard GG45 (IEC 60603-7-7) for Cat. 7 and 7A.

Fibre optic cabling applications

The standard recommends fibre optic cable for campus -and building backbones. Its' low signal attenuation, immunity to electromagnetic disturbances and galvanic separation between buildings make fibre a strong alternative. The core of fibre optic cables, can be produced from multi-mode (MM) fibres sized 50/125 mm and 62.5/125 mm with graded index profile, and single-mode (SM) fibres sized 9/125 mm with step index profile. Detailed information on Nexans fibre optic cable specifications is in the section "LANmark-OF Optical Systems".

The standard further recommends the SC- and LC-connectivity as the optical fibre connector interface for all LAN backbones. However, if a higher concentration of connections is required, the standard permits Small Form Factor connectors (SFF) which requires LC connectors.

Design Considerations

Layouts of Horizontal Channels

The standard allows the use of four channel types within a horizontal distribution to connect user equipment as well as network telecom equipment (see structure below.)

The simplest channel type is shown in Layout A (Fig. 8). The most flexible and complex channel type in a horizontal distribution is shown in Layout D.

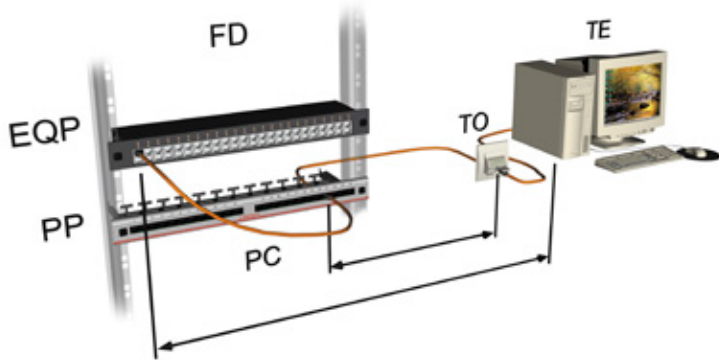
Horizontal channel links have the following limitations:

- Physical length of the channel must not exceed 100 m;
- Physical length of horizontal cable used to build a communication line must not exceed 90 m, depending on the total length of patch cords;
- if total length of patch and equipment cords exceeds 10 m, the length of the horizontal cable must be proportionally reduced according to the algorithm detailed in the standard;
- When using a Consolidation Point (CP) for zonal distribution, it must be installed at least 15 m from the Floor Distributor (FD).

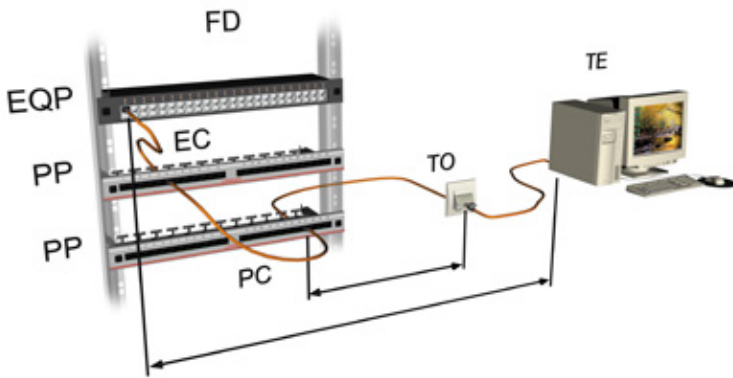
Besides these limitations, the following recommendations for the horizontal backbone should be noted:

- When using a Multi-User Telecommunication Outlet (MUTO), the length of the equipment cord connecting the terminal equipment should not exceed 20 m;
- Recommended length of patch cords is up to 5 m.

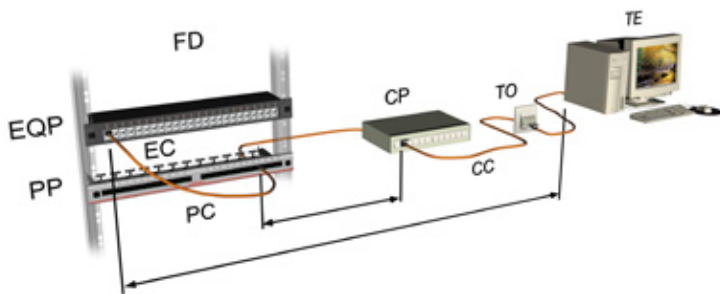
These recommendations allow the use of longer cords should the need arise.



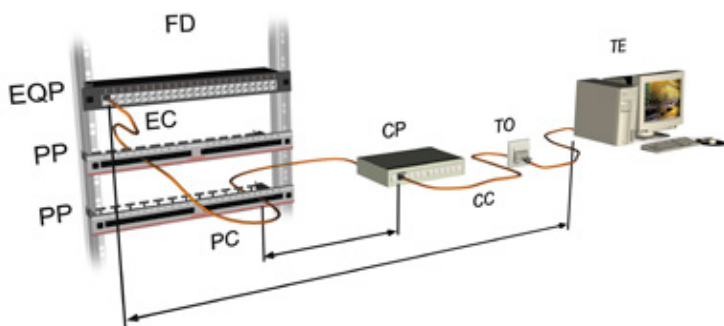
Layout A: Interconnect-TO type



Layout B: Crossconnect-TO type



Layout C: Interconnect-CP-TO type



Layout D: Crossconnect-CP-TO type

Fig. 8. Possible layouts of horizontal backbone channels

- BD – Building Distributors
- FD – Floor Distributor
- CP – Consolidation Point
- TO – Telecommunication Outlet
- TE – Terminal Equipment
- PC – Patch Cord
- EC – Equipment Cord
- CC – Consolidation Point Cable

If a twisted pair based system is used, the most complex and flexible layout is a 4-connector channel (Fig. 9). The principal limitations for Class D, E, Ea, F and Fa backbone communication channels are:

- Physical length of the channel must not exceed 100 m;
- When using 3 connectors along the channel, the installation or mounting cable must be at least 15 m long.

Depending on the total length of patch cords, the mounting cable's length must be proportionally decreased. To calculate mounting cable length, remember to account for patch and equipment cord length, as well as the category of components and the required channel class. ISO/IEC 11801 provides calculation algorithms

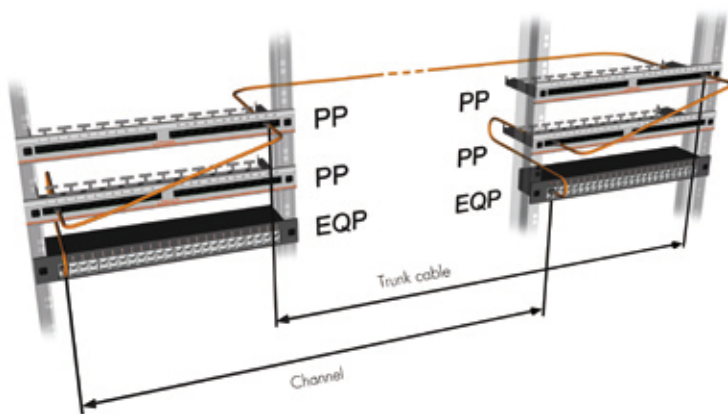


Fig. 9. Typical layout of communication backbone channel.

CD – Campus Distributor
 BD – Building Distributor
 FD – Floor Distributor
 PP – Patch Panel
 EQP – Equipment

Layouts of Fibre Optic-Based Channels

Due to low signal attenuation when using fibre optics, it is possible to connect the communication lines of different backbones in a single transmission channel. The following types of combined fibre channels are possible:

- Patched channel allowing cross-connection of lines belonging to different, adjoining backbones (Fig. 10);
- Collapsed backbone model creating a direct link between BD and TO limited to a distance of 300m and only with MM fibre.

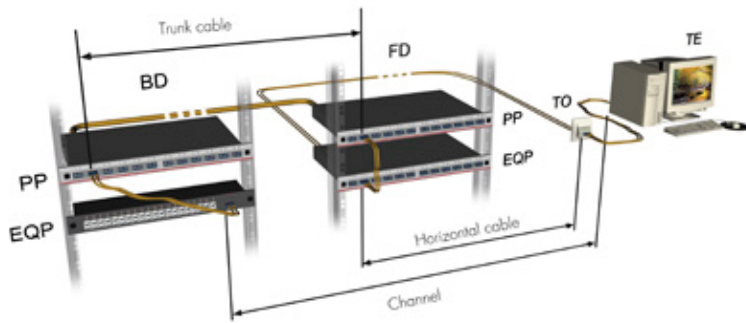


Fig. 10. Patched combined channel layout.

- BD – Building Distributors
- FD – Floor Distributor
- PP – Patch Panel
- TO – Telecommunication Outlet
- EQP - Equipment
- CC - Consolidation Point Cable
- TE - Terminal Equipment

LAN Cabling Systems

Please select 'Products & Services' tab above to browse the product catalogue.

For more information on our brands please view the following links:

- **LANmark** : Passive LAN infrastructure solutions
- **LANsense** : Intelligent Infrastructure Management (IIM)
 - including **EMAC** Environmental Monitoring & Access Control
- **essential** : component based cabling products

Please see the link to **LAN Systems Main Web Pages** for support documentation and tools.

A vertical stack of three brand logos: 'LANsense' in red and black, 'LANmark' in red and black, and 'essential' in red and black.

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, Cat 7 & voice grade
- All construction types : UTP, FTP, S-FTP, PlMF
- 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 Offer

LANmark-5

- Cat 5e system based on snap-in format connectivity

LANconnect-5

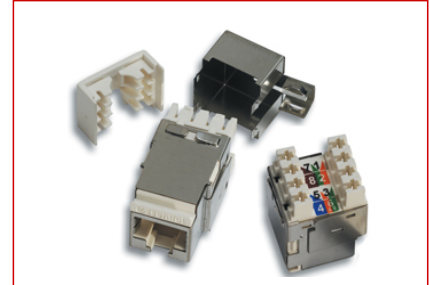
- Cat 5e system based on 808 style connectivity.

All complete systems offer a comprehensive Certified System Parts & LABOUR Warranty.

Component based solution

Essential - component based 'economy without compromise'

- cost effective solution for basic installations
- instant downloadable Nexans Link Certificate.



LANmark-5 Cable

- Complies to all Category 5e cable standards
- Supports Class D applications
- Guaranteed performance to 155MHz
- Supports Gigabit Ethernet

Description

Application

Nexans LANmark-5 cables are manufactured and tested to the latest Category 5e specifications defined in the International and American cable standards and are designed to meet the quality and performance criteria needed to support all applications up to 100 MHz.

- 10baseT Ethernet
- 100baseTX Fast Ethernet
- 1000baseTX Gigabit Ethernet
- 155 MBit ATM

Design

LANmark-5 cables have AWG 24 solid copper wires and comply with IEC 60228. The cables are available with a Dark Grey PVC or an Orange LSZH sheath. Both versions have flame retardant properties compliant with IEC 60332-1.

Performance

With a guaranteed performance to 155 MHz, Nexans LANmark-5 cables exceed the requirements of the International, European and American cable standards, including ISO/IEC 11801, IEC 61156-5, EN 50173, EN 50288 and TIA/EIA 568-C.2.

Installation

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

Guarantees

LANmark-5 cable performance is guaranteed to meet or exceed the requirements of the above mentioned standards.

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

Installations with LANmark-5 cable and connectivity are qualified for a 25 year full system warranty, which includes Parts, Channel Performance, Application Support and Labour, as described in the Nexans Certified System Warranty.



LANmark-5

Standards

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

National ANSI/TIA-568-C.2



RoHS conform
Yes

LANmark-5 Cable

Characteristics

Usage characteristics	
Range	LANmark-5
RoHS conform	Yes

Product List

☎=Make to order, 📦=In stock

Nexans ref.	Name	Type of cable	Outer sheath
📦 N100.403	LANmark-5 F ² /UTP Dual LSZH 500m Reel	F ² TP Shotgun	LSZH
☎ N100.413 To be removed	LANmark-5 F ² /UTP Dual PVC 500m Reel	F ² TP Shotgun	PVC
📦 N100.402	LANmark-5 F ² /UTP LSZH 1000m Reel	F ² TP	LSZH
📦 N100.421	LANmark-5 F ² /UTP LSZH 500m Reel	F ² TP	LSZH
📦 N100.431	LANmark-5 F ² /UTP PVC 500m Reel	F ² TP	PVC
☎ N100.492 To be removed	LANmark-5 F ¹ /UTP LSZH 1000m Reel	F/UTP	LSZH
📦 N100.491	LANmark-5 F ¹ /UTP LSZH 305m Box	F/UTP	LSZH
📦 N100.494	LANmark-5 F ¹ /UTP LSZH 500m Reel	F/UTP	LSZH
☎ N100.442	LANmark-5 F ¹ /UTP PVC 1000m Reel	F/UTP	PVC
📦 N100.441	LANmark-5 F ¹ /UTP PVC 305m Box	F/UTP	PVC
📦 N100.444 To be removed	LANmark-5 F ¹ /UTP PVC 500m Reel	F/UTP	PVC
📦 N100.502	LANmark-5 U/UTP LSZH 1000m Reel	U/UTP	LSZH
📦 N100.507	LANmark-5 U/UTP LSZH 305m Box	U/UTP	LSZH
📦 N100.521	LANmark-5 U/UTP LSZH 500m Reel	U/UTP	LSZH
📦 N100.512	LANmark-5 U/UTP PVC 1000m Reel	U/UTP	PVC
📦 N100.517	LANmark-5 U/UTP PVC 305m Box	U/UTP	PVC
📦 N100.522	LANmark-5 U/UTP PVC 500m Reel	U/UTP	PVC

☎ = Make to order, 📦 = In stock

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


 RoHS conform
 Yes

Contact

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

LANmark-5 Cable

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.

Selling information

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



RoHS conform
Yes

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

Usage characteristics

Range LANmark-5

Product List

Nexans ref.	Name	Depth (mm)	Screen
☐ N420.555	LANmark-5 Screened Snap-In connector	36.4	Yes
☎ N420.556	LANmark-5 Screened Snap-In connector for stranded wire	36.4	Yes
☐ N420.550	LANmark-5 Unscreened Snap-In connector	28.7	No
☎ N420.551	LANmark-5 Unscreened Snap-In connector for stranded wire	28.7	No

☎ = Make to order, ☐ = In stock

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

☎ = Make to order,  = In stock

LANmark-5 Outlet 45x45

- Offers headroom to latest Category 5e standard.
- LSA+ termination
- Screened and unshielded 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 unshielded.

Country specific covering plates adapt to national requirements and designs.

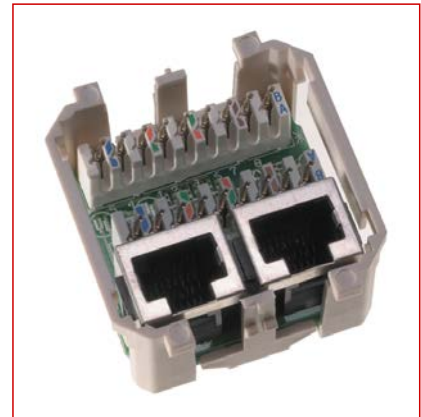
The connector module is designed to be compatible with any covering plate by using adaptation rings if required.

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

☎=Make to order, 📦=In stock

Nexans ref.	Name	Colour	Screen
📦 N462.210	LANmark-5 Double Outlet 45x45 Screened White with Shutter	White RAL 9010	Yes
📦 N462.201 To be removed	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
📦 N462.110 To be removed	LANmark-5 Single Outlet 45x45 Screened White with Shutter	White RAL 9010	Yes
📦 N462.100 To be removed	LANmark-5 Single Outlet 45x45 Unscreened White with Shutter	White RAL 9010	No

☎ = Make to order, 📦 = In stock

LANmark-5 UniBoot Patch Cords

- Complies fully with Category 5 standards
- Uses Nexans cable technology
- Fully matched with other components for maximum performance
- LSZH Flame retardant jacket or PVC
- Retrofit Latch Protector available in 8 colours for colour coding

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-conductor 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 unshielded versions available.

LANmark-5 Patch Cords feature a slim over-moulded boot for mechanical protection, which is kept inside the RJ45 boundaries to enable high density patching with 48 cords in 1 height unit. A 'Retrofittable' Latch Protector is available as accessory, which can be used for colour coding of different services.

Guarantees

- When used with the LANmark-5 system, Cat 5e/Class D channel performance complies with the channel limits of TIA/EIA-568B and ISO/IEC 11801: 2002 and a 25 years channel warranty can be obtained.
- Reliable connections.

Usage

- 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, 5, 10 and 20m are standard lengths available from stock; other lengths are available on demand.
- Orange for LSZH and Dark Grey for PVC are standard colours; other colours (Red, Blue, Yellow and Green) are available on request (in PVC only).
- Rugged construction.
- High connector retention force due to moulded connectors.
- External strain relief.
- Self-latching, high reliability RJ45 (ISO 8877) connectors.



LANmark-5

Standards

International ISO/IEC 11801

National TIA/EIA-568-B.2

LANmark-5 UniBoot Patch Cords

Characteristics

Electrical characteristics	
Characteristic impedance	100 Ohm
Usage characteristics	
Range	LANmark-5
Mechanical durability/matings	750






Product List


☎ = Make to order, 📦 = In stock

Nexans ref.	Name	Outer sheath	Length (m)	Nominal outer diameter (mm)	Colour
📦 N115.P1B100OU	LANmark-5 Patch Cord Cat 5e Screened LSZH 10m Orange	LSZH	10	5.5	Orange
📦 N115.P1B010OU	LANmark-5 Patch Cord Cat 5e Screened LSZH 1m Orange	LSZH	1	5.5	Orange
📦 N115.P1B200OU	LANmark-5 Patch Cord Cat 5e Screened LSZH 20m Orange	LSZH	20	5.5	Orange
📦 N115.P1B020OU	LANmark-5 Patch Cord Cat 5e Screened LSZH 2m Orange	LSZH	2	5.5	Orange
📦 N115.P1B030OU	LANmark-5 Patch Cord Cat 5e Screened LSZH 3m Orange	LSZH	3	5.5	Orange
📦 N115.P1B050OU	LANmark-5 Patch Cord Cat 5e Screened LSZH 5m Orange	LSZH	5	5.5	Orange
📦 N115.P2B100DU	LANmark-5 Patch Cord Cat 5e Screened PVC 10m Grey	PVC	10	5.5	Grey
📦 N115.P2B010DU	LANmark-5 Patch Cord Cat 5e Screened PVC 1m Grey	PVC	1	5.5	Grey
📦 N115.P2B200DU	LANmark-5 Patch Cord Cat 5e Screened PVC 20m Grey	PVC	20	5.5	Grey
📦 N115.P2B020DU	LANmark-5 Patch Cord Cat 5e Screened PVC 2m Grey	PVC	2	5.5	Grey
📦 N115.P2B030DU	LANmark-5 Patch Cord Cat 5e Screened PVC 3m Grey	PVC	3	5.5	Grey
📦 N115.P2B050DU	LANmark-5 Patch Cord Cat 5e Screened PVC 5m Grey	PVC	5	5.5	Grey
📦 N115.P1A100OU	LANmark-5 Patch Cord Cat 5e Unscreened LSZH 10m Orange	LSZH	10	5.5	Orange
📦 N115.P1A010OU	LANmark-5 Patch Cord Cat 5e Unscreened LSZH 1m Orange	LSZH	1	5.5	Orange
📦 N115.P1A200OU	LANmark-5 Patch Cord Cat 5e Unscreened LSZH 20m Orange	LSZH	20	5.5	Orange
📦 N115.P1A020OU	LANmark-5 Patch Cord Cat 5e Unscreened LSZH 2m Orange	LSZH	2	5.5	Orange
📦 N115.P1A030OU	LANmark-5 Patch Cord Cat 5e Unscreened LSZH 3m Orange	LSZH	3	5.5	Orange
📦 N115.P1A050OU	LANmark-5 Patch Cord Cat 5e Unscreened LSZH 5m Orange	LSZH	5	5.5	Orange
📦 N115.P2A100DU	LANmark-5 Patch Cord Cat 5e Unscreened PVC 10m Grey	PVC	10	5.5	Grey
📦 N115.P2A010DU	LANmark-5 Patch Cord Cat 5e Unscreened PVC 1m Grey	PVC	1	5.5	Grey
📦 N115.P2A200DU	LANmark-5 Patch Cord Cat 5e Unscreened PVC 20m Grey	PVC	20	5.5	Grey

☎ = Make to order, 📦 = In stock

LANmark-5 UniBoot Patch Cords

Nexans ref.	Name	Outer sheath	Length (m)	Nominal outer diameter (mm)	Colour
 N115.P2A020DU	LANmark-5 Patch Cord Cat 5e Unscreened PVC 2m Grey	PVC	2	5.5	Grey
 N115.P2A030DU	LANmark-5 Patch Cord Cat 5e Unscreened PVC 3m Grey	PVC	3	5.5	Grey
 N115.P2A050DU	LANmark-5 Patch Cord Cat 5e Unscreened PVC 5m Grey	PVC	5	5.5	Grey
 N115.S1B200OU New	LANmark-5 Solid Cord Cat 5e Screened LSZH 20m Orange	LSZH	20	6.3	Orange
 N115.S1B300OU New	LANmark-5 Solid Cord Cat 5e Screened LSZH 30m Orange	LSZH	30	6.3	Orange

☎ = Make to order,  = In stock

Contact

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

Essential-5 Cable

- U/UTP, F/UTP and SF/UTP constructions
- Complies with latest Cat 5e standards
- Supports Class D applications up to 100MHz

Description

Application

Essential-5 cables are the standard 100MHz offering from Nexans. Manufactured and tested to the latest Category 5e specifications defined in the International and American cable standards, they are suitable for voice and data installations for applications up to 100 MHz.

Design

The Essential-5 cables have AWG 24 solid copper wires and comply with IEC 60228.

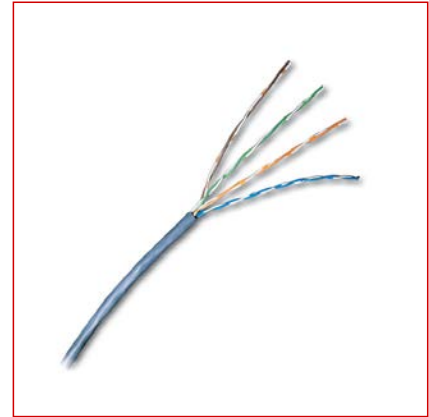
The cables are available with a Light Grey PVC or an Orange LSZH sheath. Both versions have flame retardant properties compliant with IEC 60332-1.

Performance

Nexans Essential-5 cables are compliant with the requirements of the International, European and American cable standards, including ISO/IEC 11801, IEC 61156-5, EN 50173, EN 50288 and TIA/EIA 568-C.2.

Installation

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



Standards

International ISO/IEC 11801

National ANSI/TIA-568-C.2

Essential-5 Cable

Characteristics

Usage characteristics

Range

essential

Product List

☎=Make to order, 📦=In stock

Nexans ref.	Name	Type of cable	Length (m)	Packaging	Outer sheath
☎ N100.453	Essential F/UTP Cat 5e 0,5MM Dual LSZH 500M REEL	F/UTP Shotgun	500	Reel	LSZH
☎ N100.463	Essential F/UTP Cat 5e 0,5MM Dual PVC 500M REEL	F/UTP Shotgun	500	Reel	PVC
📦 N100.452	Essential F/UTP Cat 5e 0,5MM LSZH 1000M REEL	F/UTP	1000	Reel	LSZH
📦 N100.454	Essential F/UTP Cat 5e 0,5MM LSZH 500M REEL	F/UTP	500	Reel	LSZH
📦 N100.451	Essential F/UTP Cat 5e 0,5MM LSZH BOX 305M	F/UTP	305	Box	LSZH
☎ N100.462	Essential F/UTP Cat 5e 0,5MM PVC 1000M REEL	F/UTP	1000	Reel	PVC
📦 N100.464	Essential F/UTP Cat 5e 0,5MM PVC 500M REEL	F/UTP	500	Reel	PVC
📦 N100.461	Essential F/UTP Cat 5e 0,5MM PVC BOX 305M	F/UTP	305	Box	PVC
☎ N100.407	Essential SF/UTP Cat 5e 0,5MM LSZH 1000M REEL	SF/UTP	1000	Reel	LSZH
☎ N100.476	Essential SF/UTP Cat 5e 0,5MM PVC 500M REEL	SF/UTP	500	Reel	PVC
📦 N100.552	Essential U/UTP Cat 5e 0,5MM LSZH 1000M REEL	U/UTP	1000	Reel	LSZH
📦 N100.554	Essential U/UTP Cat 5e 0,5MM LSZH 500M REEL	U/UTP	500	Reel	LSZH
📦 N100.551	Essential U/UTP Cat 5e 0,5MM LSZH BOX 305M	U/UTP	305	Box	LSZH
📦 N100.562	Essential U/UTP Cat 5e 0,5MM PVC 1000M REEL	U/UTP	1000	Reel	PVC
📦 N100.564	Essential U/UTP Cat 5e 0,5MM PVC 500M REEL	U/UTP	500	Reel	PVC
📦 N100.561	Essential U/UTP Cat 5e 0,5MM PVC Box 305M	U/UTP	305	Box	PVC

☎ = Make to order, 📦 = In stock

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
4	4.1	56.3	52.2	53.3	51.7	49.0	23.0
10	6.5	50.3	43.8	47.3	43.8	41.0	25.0
16	8.3	47.2	38.9	44.3	39.7	36.9	25.0
20	9.3	45.8	36.5	42.8	37.7	35.0	25.0
31.25	11.7	42.9	31.2	39.9	33.9	31.1	23.6
62.5	17.0	38.4	21.4	35.4	27.9	25.1	21.5
100	22.0	35.3	13.3	32.3	23.8	21.0	20.1

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

☒ = Make to order, ☒ = In stock

Essential-5 Keystone Connector

- Complies with the latest Category 5e standards
- Unscreened
- Fast termination from either side or rear
- Fits in all Nexans keystone hardware designed for Essential-5 and -6
- 110 or LSA+ termination

Description

Application

The Nexans Essential-5 keystone connector is manufactured and tested to the latest Category 5e specifications. It supports Class D applications up to 100 MHz. When installed in conjunction with Essential-5 cable and patch panels, a 25 year Class D Link Warranty can be obtained from the Nexans web site.

Design

The Essential-5 keystone connector is designed to match with Essential-5 cable and patch cords and complements all Essential modular components, such as:

- keystone patch panels (black and white)
- keystone outlet modules (UK, US and European formats)

Please follow the links on this page to view the related datasheets.

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

Performance

The Essential-5 keystone connector is compliant with the specifications of ISO/IEC 11801 and EN 50173.

Installation

- Cable entry from either side or rear.
- Wiring according to colour code T568B or T568A.
- Termination with 110 or LSA+ punchdown tool.
- Accepts 24, 23 and 22 AWG solid core cables.
- Fits Nexans hardware designed for keystone format.



Standards




International ISO/IEC 11801

Essential-5 Keystone Connector

Characteristics

Construction characteristics	
Connector type	RJ45 and 110/LSA+ IDC
Usage characteristics	
Range	essential

Product List

Nexans ref.	Name
 N420.415	Essential-5 Keystone Connector Cat 5e Unscreened
 = Make to order,  = In stock	

Essential-5 Patch Panels

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

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

Installation

- Supplied with fixings.
- Unscreened.
- 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).



Standards

International ISO/IEC 11801

Essential-5 Patch Panels

Product List

☎=Make to order, 📦=In stock

Nexans ref.	Name
📦 N424.510	Essential-5 24 port PCB Patch Panel Rear Connection Black
📦 N424.513	Essential-5 24 port PCB Patch Panel Top Connection Black
📦 N424.511	Essential-5 48 port PCB Patch Panel Rear Connection Black
📦 N500.204 New	Essential-5 PCB Patch Panel Unscreened 24 RJ45 Cat 5e Rear Connect Black
📦 N500.202	Essential-5 PCB Patch Panel Unscreened 24 RJ45 Cat 5e Rear Connect White

☎ = Make to order, 📦 = In stock

Contact

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

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

 = Make to order,  = In stock

essential patchcords

- Complies to the latest Category 5e standard
- Light grey PVC
- Screened and unshielded
- 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
Electrical characteristics	
Characteristic impedance	100 Ohm
Usage characteristics	
Range	essential
Flame retardant	IEC 60332-1
Mechanical durability/matings	100
Category	Cat. 5e

Product List

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

 = Make to order,  = In stock

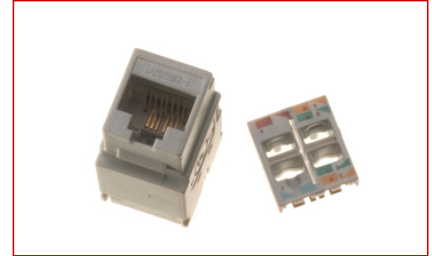


Flame retardant
IEC 60332-1

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. Recommended uses:

- Typical 5-10 year building life
- Typical enterprise applications - Fast Ethernet & Gigabit Ethernet
- 10Gigabit variants for high data environments and datacentres
- Where reliability is considered vital for business
- Typical office or indoor light industrial environments



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

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

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

Design

The LANmark-6 cables have AWG 23 solid copper wires and comply with IEC 60228.

The PE central cross filler helps maintain the stability of the cable geometry and reduces the risk of a reduction in performance when bending the cable.

The cables are available with a Dark Grey PVC or an Orange LSZH sheath. Both versions have flame retardant properties compliant with IEC 60332-1.

Performance

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

Installation

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

Guarantees

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

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

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



LANmark-6

Standards

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

National ANSI/TIA-568-C.2

LANmark-6 Cable

Technical data

Type of cable	Outer sheath	Colour
U/UTP	LSZH	Orange
U/UTP	PVC	Grey

Product List

☎=Make to order, 📦=In stock

Nexans ref.	Name	Type of cable	Outer sheath	Fire retardant
📦 N100.623	LANmark-6 F1/UTP Dual LSZH 500m reel	FTP Shotgun	LSZH	
📦 N100.628 To be removed	LANmark-6 F1/UTP Dual PVC 500m reel	FTP Shotgun	PVC	
📦 N100.622	LANmark-6 F1/UTP LSZH 1000m reel	F/UTP	LSZH	
📦 N100.624	LANmark-6 F1/UTP LSZH 500m reel	F/UTP	LSZH	
☎ N100.627 To be removed	LANmark-6 F1/UTP PVC 1000m reel	F/UTP	PVC	
📦 N100.629	LANmark-6 F1/UTP PVC 500m reel	F/UTP	PVC	
📦 N100.603	LANmark-6 F2/UTP Dual LSZH 500m reel	F ² TP Shotgun	LSZH	
📦 N100.613	LANmark-6 F2/UTP Dual PVC 500m reel	F ² TP Shotgun	PVC	
📦 N100.601	LANmark-6 F2/UTP LSZH 1000m reel	F ² TP	LSZH	
📦 N100.662	LANmark-6 F2/UTP LSZH 500m reel	F ² TP	LSZH	
📦 N100.611 To be removed	LANmark-6 F2/UTP PVC 1000m reel	F ² TP	PVC	
📦 N100.661	LANmark-6 F2/UTP PVC 500m reel	F ² TP	PVC	
📦 N100.609	LANmark-6 U/UTP Dual LSZH 500m reel	U/UTP	LSZH	
☎ N100.619	LANmark-6 U/UTP Dual PVC 500m reel	U/UTP	PVC	
📦 N100.606	LANmark-6 U/UTP LSZH 1000m reel	U/UTP	LSZH	
📦 N100.607	LANmark-6 U/UTP LSZH 305m Box	U/UTP	LSZH	
📦 N100.604	LANmark-6 U/UTP LSZH 305m reel in box	U/UTP	LSZH	
📦 N100.605	LANmark-6 U/UTP LSZH 500m reel	U/UTP	LSZH	
📦 N100.616	LANmark-6 U/UTP PVC 1000m reel	U/UTP	PVC	
📦 N100.617	LANmark-6 U/UTP PVC 305m Box	U/UTP	PVC	
📦 N100.614	LANmark-6 U/UTP PVC 305m reel in box	U/UTP	PVC	
📦 N100.608	LANmark-6 U/UTP PVC 500m reel	U/UTP	PVC	

☎ = Make to order, 📦 = In stock

Electrical Performance LANmark-6 cables

All values are specified at 20°C

Freq. in MHz	IL		NEXT		PSNEXT		ACR-F		PS ACR-F		RL	
	in Db/100m		in dB		in dB		in dB		in dB		in dB	
	Max.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.
1	2.0	2.0	74.3	80.3	72.3	78.3	67.8	72.8	64.8	69.8	20.0	22.0
4	3.8	3.8	65.3	71.3	63.3	69.3	55.8	60.8	52.8	57.8	23.0	25.0
10	6.0	6.0	59.3	65.3	57.3	63.3	47.8	52.8	44.8	49.8	25.0	27.0
16	7.6	7.6	56.2	62.2	54.2	60.2	43.7	48.7	40.7	45.7	25.0	27.0
20	8.5	8.5	54.8	60.8	52.8	58.8	41.8	46.8	38.8	43.8	25.0	27.0
31.25	10.7	10.7	51.9	57.9	49.9	55.9	37.9	42.9	34.9	39.9	23.6	25.6
62.5	15.4	15.4	47.4	53.4	45.4	51.4	31.9	36.9	28.9	33.9	21.5	23.5
100	19.8	19.8	44.3	50.3	42.3	48.3	27.8	32.8	24.8	29.8	20.1	22.1

LANmark-6 Cable

155	25.2	25.2	41.4	47.4	39.4	45.4	24.0	29.0	21.0	26.0	18.8	20.8
200	29.0	29.0	39.8	45.8	37.8	43.8	21.8	26.8	18.8	23.8	18.0	20.0
250	32.8	32.8	38.3	44.3	36.3	42.3	19.8	24.8	16.8	21.8	17.3	19.3
300	-	36.4	-	43.1	-	41.1	-	23.3	-	20.3	-	18.8
350	-	39.8	-	42.1	-	40.1	-	21.9	-	18.9	-	18.3

LANmark-6 Snap-In Connector

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

Description

Application

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

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

Design

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

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

Performance

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

Installation

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

A stranded version is available for CP to TO links.

Guarantees

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

Traceability codes on both connector and packaging ensure quality validation.

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



LANmark-6

Standards

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

LANmark-6 Snap-In Connector

Product List

☎=Make to order, 📦=In stock

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

☎ = Make to order, 📦 = In stock

Electrical & mechanical characteristics

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

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

LANmark-6 UniBoot Patch Cords

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

Description

Application

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

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

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

Guarantees

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

Installation

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



LANmark-6

Standards

International EN 50173 Ed.1; ISO/IEC 11801

National ANSI/TIA-568-C.2

LANmark-6 UniBoot Patch Cords

Product List

☎=Make to order, 📦=In stock

Nexans ref.	Name	Range	Colour	Screen	Length (m)
📦 N116.P1A100DK	LANmark-6 Patch Cord Cat 6 Unscreened LSZH 10m Grey	LANmark-6	Grey	No	10
📦 N116.P1A100OK	LANmark-6 Patch Cord Cat 6 Unscreened LSZH 10m Orange	LANmark-6	Orange	No	10
📦 N116.P1A010DK	LANmark-6 Patch Cord Cat 6 Unscreened LSZH 1m Grey	LANmark-6	Grey	No	1
📦 N116.P1A010OK	LANmark-6 Patch Cord Cat 6 Unscreened LSZH 1m Orange	LANmark-6	Orange	No	1
📦 N116.P1A200DK	LANmark-6 Patch Cord Cat 6 Unscreened LSZH 20m Grey	LANmark-6	Grey	No	20
📦 N116.P1A200OK	LANmark-6 Patch Cord Cat 6 Unscreened LSZH 20m Orange	LANmark-6	Orange	No	20
📦 N116.P1A020DK	LANmark-6 Patch Cord Cat 6 Unscreened LSZH 2m Grey	LANmark-6	Grey	No	2
📦 N116.P1A020OK	LANmark-6 Patch Cord Cat 6 Unscreened LSZH 2m Orange	LANmark-6	Orange	No	2
📦 N116.P1A030DK	LANmark-6 Patch Cord Cat 6 Unscreened LSZH 3m Grey	LANmark-6	Grey	No	3
📦 N116.P1A030OK	LANmark-6 Patch Cord Cat 6 Unscreened LSZH 3m Orange	LANmark-6	Orange	No	3
📦 N116.P1A050DK	LANmark-6 Patch Cord Cat 6 Unscreened LSZH 5m Grey	LANmark-6	Grey	No	5
📦 N116.P1A050OK	LANmark-6 Patch Cord Cat 6 Unscreened LSZH 5m Orange	LANmark-6	Orange	No	5
📦 N116.S1A200OK New	LANmark-6 Solid Cord Cat 6 Unscreened LSZH 20m Orange	LANmark-6	Orange	No	20
📦 N116.S1A300OK New	LANmark-6 Solid Cord Cat 6 Unscreened LSZH 30m Orange	LANmark-6	Orange	No	30
☎ N116.P9A010DK New	LANmark-6 UniBoot Patch Cord Unscreened UL PVC Grey 1m	LANmark-6	Grey	No	1
☎ N116.P9A020DK New	LANmark-6 UniBoot Patch Cord Unscreened UL PVC Grey 2m	LANmark-6	Grey	No	2
☎ N116.P9A030DK New	LANmark-6 UniBoot Patch Cord Unscreened UL PVC Grey 3m	LANmark-6	Grey	No	3
☎ N116.P9A050DK New	LANmark-6 UniBoot Patch Cord Unscreened UL PVC Grey 5m	LANmark-6	Grey	No	5

☎ = Make to order, 📦 = In stock

LANmark-6 UniBoot Patch Cords

Electrical Performance LANmark-6 4 Connector Channel

Freq	Attn		NEXT		PSNEXT		ELFEXT		PS ELFEXT		PS ANEXT		PS AELFEXT		RL	
	dB		dB		dB		dB		dB		dB		dB		dB	
	Std	Typ	Std	Typ	Std	Typ	Std	Typ	Std	Typ	Std	Typ	Std	Typ	Std	Typ
1	4.0	<4	65.0	>75	62.0	74.8	63.3	>60	60.3	>60	80.0	>90	77.0	>90	19.0	21.0
4	4.2	4.1	63.0	66.5	60.5	65.0	51.2	58.2	48.2	58.2	74.0	>90	65.0	80.9	19.0	21.0
10	6.6	6.4	56.6	60.1	54.0	58.5	43.3	50.3	40.3	50.3	70.0	>90	57.0	72.9	19.0	21.0
16	8.3	8.1	53.2	56.7	50.6	55.1	39.2	46.2	36.2	46.2	68.0	90.0	52.9	68.8	18.0	20.0
20	9.3	9.1	51.6	55.1	49.0	53.5	37.2	44.2	34.2	44.2	67.0	89.0	51.0	66.9	17.5	19.5
31.25	11.7	11.4	48.4	51.9	45.7	50.2	33.4	40.4	30.4	40.4	65.1	87.1	47.1	63.0	16.5	18.5
62.5	16.9	16.3	43.4	46.9	40.6	45.1	27.3	34.3	24.3	34.3	62.0	84.0	41.1	57.0	14.0	16.0
100	21.7	20.8	39.9	43.4	37.1	41.6	23.3	30.3	20.3	30.3	60.0	82.0	37.0	52.9	12.0	14.0
155	27.6	26.2	36.7	40.2	33.8	38.3	19.5	26.5	16.5	26.5	57.1	79.1	33.2	49.1	10.1	12.1
200	31.7	30.0	34.8	38.3	31.9	36.4	17.2	24.2	14.2	24.2	55.5	77.5	31.0	46.9	9.0	11.0
250	35.9	33.8	33.1	36.6	30.2	34.7	15.3	22.3	12.3	22.3	54.0	76.0	29.0	44.9	8.0	10.0

LANmark-6 10G Cable

- Supports Ethernet applications including 10GBase-T up to 60m
- Smaller diameter allows 40% space savings when used in bundles
- Guaranteed performance to 500MHz
- Fully screened for alien crosstalk immunity
- Complies to 'Work area CAT6A wiring performance according to IEC 61156-6 Ed.3'
- Complies to 'Horizontal floor CAT6A wiring performance according to IEC 61156-5 Ed.2' for channels of max. 60m or links of max. 50m
- Provides +20dB of headroom against Cat6A on NEXT & PSNEXT and +10dB on ACRF & PSACRF

Description

Application

LANmark-6 10G DC50 cable is a special development to support 10G networking within dense and short length environments such as data centres. It focuses on space saving, by reducing the wire diameters and the supported distance.

The outer diameter is 5.9mm, which allows space saving of 40% when installed in bundles. A typical '6 around 1' bundle of LANmark-6 10G DC50 cables has a circular area of only 246mm² compared to typically >400mm² of an AWG23 cable.

LANmark-6 10G DC50 is a U/FTP cable with 4 individually shielded twisted pairs and as such ensures immunity from Alien Crosstalk and other external interferences. The cable supports a frequency range from 1-500MHz and covers therefore all Ethernet applications defined today, especially 10 Gigabit Ethernet.

Due to the small diameter the signal insertion loss of the DC50 cable is higher compared to standard Category 6A horizontal cable and therefore the maximum supported distance must be reduced to 60m. The following applications are supported:

- 10Base-T Ethernet up to 60m
- 100Base-TX Fast Ethernet up to 60m
- 1000Base-TX Gigabit Ethernet up to 60m
- 10GBase-T 10 Gigabit Ethernet IEEE 802.3 up to 60m
- 155 Mbit ATM up to 60m
- 1.2 Gbit ATM up to 60m
- future class EA applications up to 60m

Performance

With guaranteed performance up to 500MHz, Nexans LANmark-6 10G DC50 cables provide the bandwidth of Category 6A products although they are not fully compliant to Cat6A horizontal cable requirements due to the higher insertion loss. Electrically they fully comply to 'Work area Cat 6A wiring performance according to IEC 61156-6 Ed.3'. All Crosstalk parameters are very low. LANmark-6 10G DC50 cables provide 20dB of headroom against Cat6A on NEXT and PSNEXT and 10dB headroom on ACRF and PSACRF.

When used in combination with Nexans LANmark-6 10G Evo connectors and LANmark-6 10G patch cords, and installed according to the guidelines, the full 50m four-connector channel meets Category 6A and Class EA requirements as defined in TIA/EIA568B.2 Addendum 10 and ISO/IEC 11801/2 respectively.

Installation

LANmark-6 10G DC50 cables must be installed using connectors for stranded wires such as N420.667G or N420.67A.

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

Guarantees



LANmark-6 10G

Standards

International ISO/IEC 11801

LANmark-6 10G Cable

Nexans LANmark-6 10G DC50 cable is covered by a parts and labour warranty as described in the Nexans Certified System Warranty. When installed in combination with other LANmark-6 10G components, a 25 year 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, a 25 year warranty can be obtained according to Category 6A or Class EA requirements.

LANmark-6 10G Cable

Product List

Nexans ref.	Name	Outer sheath
☎ N100.341G To be removed	LANmark-6 10G DC50 U/FTP AWG26 500MHz LSZH 1000m reel	LSZH
☒ N100.342G New	LANmark-6 10G DC50 U/FTP AWG26 500MHz LSZH 500m reel	LSZH

☎ = Make to order, ☒ = In stock

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.

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
- Supports POE Plus applications (15 Watts per pair)

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
- POE Plus
- 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

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



LANmark-6 10G

Standards

International IEEE 802.3af (PoE);
 IEEE 802.3an;
 IEEE 802.3at (PoE Plus); ISO/
 IEC 11801:2002/Amd 1:2008/
 Cor 1:2008; ISO/IEC TR24750
National TIA/EIA TSB-155; TIA/
 EIA-568-B.2-10

LANmark-6 10G Snap-In Connector

- 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
- Passes all tests for POE Plus Requirements (IEC 60512-99-001 Ed.1)

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

Product List

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

 = Make to order,  = In stock

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.

LANmark-6 10G UniBoot Patch Cords

- High speed RJ45 patch cord to run 10GBase-T (IEEE 802.3an)
- High Density support : 48 cords on 1 height unit
- Frequency up to 500MHz, fully complies to Cat 6A channel requirements
- Screened Design for Alien Crosstalk immunity
- Externally certified
- Retrofit Latch Protector available in 8 colours for colour coding

Description

Application

LANmark-6 10G Cords are developed to support 10 Gigabit Ethernet (IEEE 802.3an).

LANmark-6 10G Cords offer superior performance up to 500MHz and are matched with other LANmark-6 10G components to provide improved data throughput in complex channel configurations. LANmark-6 10G Cords use stranded cable and as such provide maximum system flexibility for the use at Cross Connects and Consolidation points.

LANmark-6 10G Cords feature a robust boot which does not extend outside the RJ45 boundaries to enable High Density Patching with 48 cords in 1 height unit and a Retrofit Latch Protector, which can be used for color coding of different services.

Performance

LANmark-6 10G Cords fully comply and exceed the channel requirements of EIA/TIA-568-C.2 and ISO11801 and enable to achieve high performing 10G channels.

Guarantees

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

Usage

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



LANmark-6 10G

Standards

International IEEE 802.3an; ISO/IEC 11801; ISO/IEC TR24750

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

LANmark-6 10G UniBoot Patch Cords

Product List

☎ = Make to order, 📦 = In stock

Nexans ref.	Name	Range	Length (m)	Nominal outer diameter (mm)	Colour
📦 N11G.P1B100DK New	LANmark-6 10G Patch Cord Cat 6 500MHz Screened LSZH 10m Grey	LANmark-6 10G	10	6.0	Grey
📦 N11G.P1B100OK New	LANmark-6 10G Patch Cord Cat 6 500MHz Screened LSZH 10m Orange	LANmark-6 10G	10	6.0	Orange
📦 N11G.P1B010DK New	LANmark-6 10G Patch Cord Cat 6 500MHz Screened LSZH 1m Grey	LANmark-6 10G	1	6.0	Grey
📦 N11G.P1B010OK New	LANmark-6 10G Patch Cord Cat 6 500MHz Screened LSZH 1m Orange	LANmark-6 10G	1	6.0	Orange
📦 N11G.P1B200DK New	LANmark-6 10G Patch Cord Cat 6 500MHz Screened LSZH 20m Grey	LANmark-6 10G	20	6.0	Grey
📦 N11G.P1B200OK New	LANmark-6 10G Patch Cord Cat 6 500MHz Screened LSZH 20m Orange	LANmark-6 10G	20	6.0	Orange
📦 N11G.P1B020DK New	LANmark-6 10G Patch Cord Cat 6 500MHz Screened LSZH 2m Grey	LANmark-6 10G	2	6.0	Grey
📦 N11G.P1B020OK New	LANmark-6 10G Patch Cord Cat 6 500MHz Screened LSZH 2m Orange	LANmark-6 10G	2	6.0	Orange
📦 N11G.P1B030DK New	LANmark-6 10G Patch Cord Cat 6 500MHz Screened LSZH 3m Grey	LANmark-6 10G	3	6.0	Grey
📦 N11G.P1B030OK New	LANmark-6 10G Patch Cord Cat 6 500MHz Screened LSZH 3m Orange	LANmark-6 10G	3	6.0	Orange
📦 N11G.P1B050DK New	LANmark-6 10G Patch Cord Cat 6 500MHz Screened LSZH 5m Grey	LANmark-6 10G	5	6.0	Grey
📦 N11G.P1B050OK New	LANmark-6 10G Patch Cord Cat 6 500MHz Screened LSZH 5m Orange	LANmark-6 10G	5	6.0	Orange

☎ = Make to order, 📦 = In stock

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.

LANmark-6A Cable

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

Description

Application

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

- 10Base-T Ethernet
- 100Base-TX Fast Ethernet
- 1000Base-TX Gigabit Ethernet
- 10GBase-T 10 Gigabit Ethernet IEEE 802.3
- 155 Mbit ATM
- 1.2 Gbit ATM
- future Cat 6A and Class EA applications

Performance

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

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

Installation

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

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

Guarantees

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

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



LANmark-6A

Standards

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

National ANSI/TIA-568-C.2

LANmark-6A Cable

Product List

☞=Make to order, ☐=In stock

Nexans ref.	Name	Type of cable	Outer sheath
☐ N100.692G	LANmark-6A F/FTP AWG23 Cat 6A LSZH Orange 1000m reel	F/FTP	LSZH
☐ N100.694G	LANmark-6A F/FTP AWG23 Cat 6A LSZH Orange 500m reel	F/FTP	LSZH
☐ N100.693G	LANmark-6A F/FTP Dual AWG23 Cat 6A LSZH Orange 500m reel	F/FTP	LSZH
☐ N100.622G	LANmark-6A F1/UTP AWG23 Cat 6A LSZH Orange 1000m reel	F/UTP	LSZH
☐ N100.624G	LANmark-6A F1/UTP AWG23 Cat 6A LSZH Orange 500m reel	F/UTP	LSZH
☐ N100.623G	LANmark-6A F1/UTP Dual AWG23 Cat 6A LSZH Orange 500m reel	F/UTP	LSZH

☞ = Make to order, ☐ = In stock

LANmark-6A Cable

Electrical Performance LANmark-6A F1/UTP cable

Electrical Performance LANmark-6A F1/UTP cable

Freq in MHz	Attn in dB		NEXT in dB		PSNEXT in dB		ACR-F in dB		PS ACR-F in dB		PS ANEXT in dB		PS AACR-F in dB		RL in dB	
	Max.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.
1	2.1	2.1	74.3	79.3	72.3	77.3	67.8	87.8	64.8	84.8	67.0	90.0	67.0	76.7	20.0	26.0
4	3.8	3.8	65.3	70.3	63.3	68.3	55.8	75.8	52.8	72.8	67.0	90.0	66.2	75.9	23.0	29.0
10	5.9	5.9	59.3	64.3	57.3	62.3	47.8	67.8	44.8	64.8	67.0	87.0	58.2	67.9	25.0	31.0
16	7.5	7.5	56.2	61.2	54.2	59.2	43.7	63.7	40.7	60.7	67.0	85.0	54.1	63.8	25.0	31.0
20	8.4	8.4	54.8	59.8	52.8	57.8	41.8	61.8	38.8	58.8	67.0	84.0	52.2	61.9	25.0	31.0
31.25	10.5	10.5	51.9	56.9	49.9	54.9	37.9	57.9	34.9	54.9	67.0	82.1	48.3	58.0	23.6	29.6
62.5	15.0	15.0	47.4	52.4	45.4	50.4	31.9	51.9	28.9	48.9	65.6	79.0	42.3	52.0	21.5	27.5
100	19.1	19.1	44.3	49.3	42.3	47.3	27.8	47.8	24.8	44.8	62.5	77.0	38.2	47.9	20.1	26.1
155	24.1	24.1	41.4	46.4	39.4	44.4	24.0	44.0	21.0	41.0	59.6	74.1	34.4	44.1	18.8	24.8
200	27.6	27.6	39.8	44.8	37.8	42.8	21.8	41.8	18.8	38.8	58.0	72.5	32.2	41.9	18.0	24.0
250	31.1	31.1	38.3	43.3	36.3	41.3	19.8	39.8	16.8	36.8	56.5	71.0	30.2	39.9	17.3	23.3
300	34.3	34.3	37.1	40.1	35.1	38.1	18.3	38.3	15.3	35.3	55.3	69.8	28.7	38.4	16.8	22.8
500	45.3	45.3	33.8	36.8	31.8	34.8	13.8	33.8	10.8	30.8	52.0	66.5	24.2	33.9	15.2	21.2

all values are specified at 20°C

LANmark-6A Snap-In Connector

- High bandwidth RJ45 connector supporting 10 Gigabit Ethernet
- Fully compliant with TIA and ISO Category 6A cabling and connector standards
- Supports very short Category 6A channel configurations, often required in Data Centres
- 360° shielding offering full Alien Crosstalk immunity
- Fast and easy termination without punch down tool
- Wiring according to colour code T568B or T568A
- Reterminable
- Stranded version available for CP to TO links
- Supports POE Plus applications (15 Watts per pair)
- An adapter can be added to fit the keystone format

Description

Application

Nexans LANmark-6A Evo Snap-In Connectors are manufactured and tested to the latest Category 6A specifications defined in the International and American cabling standards and are designed to meet or exceed the stringent quality and performance criteria needed to support all applications up to 500 MHz, including 10 Gigabit Ethernet.

A fully closed metal rear cover providing 360 degrees shielding offers excellent coupling attenuation and ensures immunity from Alien Crosstalk and other external interferences.

Channels built with LANmark-6A cables and jacks do not need on site testing for Alien Crosstalk, as this parameter is met by design. This significantly reduces the installation cost for 10G network cabling.

- 10 BASE-T Ethernet
- 100 BASE-T Fast Ethernet
- 1000 BASE-T Gigabit Ethernet
- 10G BASE-T Gigabit Ethernet IEEE 802.3
- 155 Mbit ATM
- 1.2 Gbit ATM
- POE Plus (including IEC 60512-9-3 and IEC 60512-99-001)
- Future Cat 6A and Class EA applications

Design

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

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

Performance

Nexans LANmark-6A Evo connectors meet or exceed the requirements for Category 6A connecting hardware as described in ISO/IEC 11801, IEC 60603-7-51 and EIA/TIA 568-C.2.

In conjunction with LANmark-6A cable they support all 2, 3 and 4 connector models as specified in these standards, as well as very short link and channel configurations which are increasingly required in Data Centre environments.

Installation

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

A stranded version is available for CP to TO links.

Guarantees



LANmark-6A

Standards

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

National ANSI/TIA-568-C.2





LANmark-6A Snap-In Connector



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

Traceability codes on both connector and packaging ensure quality validation.

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

Product List

Nexans ref.	Name
 N420.66A	LANmark-6A Evo Snap-In Connector Category 6A 500MHz Screened
 N420.66ABULK100	LANmark-6A Evo Snap-In Connector Category 6A 500MHz Screened (bulk pack)
 N420.66AECO24 New	LANmark-6A Evo Snap-In Connector Category 6A 500MHz Screened Eco-24
 N420.67A	LANmark-6A Evo Snap-In Connector Category 6A 500MHz Screened for stranded wire

 = Make to order,  = In stock

LANmark-6A Snap-In Connector

Electrical Performance LANmark-6A 4 Connector Channel Part 1

"All values are based on Worst Case 4 Connector Channel configurations according to ISO 11801. 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 ISO 11801 Class EA

Electrical Performance LANmark-6A 4 Connector Channel Part 2

All values are based on Worst Case 4 Connector Channel configurations according to ISO 11801. 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	7.2	9.2	13.2
500	6.3	13.0	49.5	64.5	66.5	23.0	38.0	40.0	6.0	8.0	11.0

*Standard values based on ISO 11801 Class EA

LANmark-6A Ultim UniBoot Patch Cords

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

Description

Application

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

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

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

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

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

Performance

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

Guarantees

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

Usage

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



LANmark-6A

Standards

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

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

Characteristics

Usage characteristics

Range

LANmark-6A

LANmark-6A Ultim UniBoot Patch Cords

Product List

☎=Make to order, 📦=In stock

Nexans ref.	Name	Length (m)	Colour	Screen
📦 N11A.U1F100DK	LANmark-6A Ultim Patch Cord Cat 6A Screened LSZH 10m Grey	10	Grey	Yes
📦 N11A.U1F100OK	LANmark-6A Ultim Patch Cord Cat 6A Screened LSZH 10m Orange	10	Orange	Yes
📦 N11A.U1F010DK	LANmark-6A Ultim Patch Cord Cat 6A Screened LSZH 1m Grey	1	Grey	Yes
📦 N11A.U1F010OK	LANmark-6A Ultim Patch Cord Cat 6A Screened LSZH 1m Orange	1	Orange	Yes
📦 N11A.U1F200DK	LANmark-6A Ultim Patch Cord Cat 6A Screened LSZH 20m Grey	20	Grey	Yes
📦 N11A.U1F200OK	LANmark-6A Ultim Patch Cord Cat 6A Screened LSZH 20m Orange	20	Orange	Yes
📦 N11A.U1F020DK	LANmark-6A Ultim Patch Cord Cat 6A Screened LSZH 2m Grey	2	Grey	Yes
📦 N11A.U1F020OK	LANmark-6A Ultim Patch Cord Cat 6A Screened LSZH 2m Orange	2	Orange	Yes
📦 N11A.U1F030DK	LANmark-6A Ultim Patch Cord Cat 6A Screened LSZH 3m Grey	3	Grey	Yes
📦 N11A.U1F030OK	LANmark-6A Ultim Patch Cord Cat 6A Screened LSZH 3m Orange	3	Orange	Yes
📦 N11A.U1F050DK	LANmark-6A Ultim Patch Cord Cat 6A Screened LSZH 5m Grey	5	Grey	Yes
📦 N11A.U1F050OK	LANmark-6A Ultim Patch Cord Cat 6A Screened LSZH 5m Orange	5	Orange	Yes
📦 N11A.S1F200OK New	LANmark-6A Ultim Solid Cord Cat 6A Screened LSZH 20m Orange	20	Orange	Yes
📦 N11A.S1F300OK New	LANmark-6A Ultim Solid Cord Cat 6A Screened LSZH 30m Orange	30	Orange	Yes
📦 N11A.P9F100OK New	LANmark-6A Ultim UniBoot Patch Cord Screened UL PVC 10m Orange	10	Orange	Yes
📦 N11A.P9F010OK New	LANmark-6A Ultim UniBoot Patch Cord Screened UL PVC 1m Orange	1	Orange	Yes
📦 N11A.P9F020OK New	LANmark-6A Ultim UniBoot Patch Cord Screened UL PVC 2m Orange	2	Orange	Yes
📦 N11A.P9F030OK New	LANmark-6A Ultim UniBoot Patch Cord Screened UL PVC 3m Orange	3	Orange	Yes
📦 N11A.P9F050OK New	LANmark-6A Ultim UniBoot Patch Cord Screened UL PVC 5m Orange	5	Orange	Yes

☎ = Make to order, 📦 = In stock

LANmark-6A Ultim UniBoot Patch Cords

Electrical Performance LANmark-6A 4 Connector Channel Part 1

"All values are based on Worst Case 4 Connector Channel configurations according to ISO 11801. 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 ISO 11801 Class EA

Electrical Performance LANmark-6A 4 Connector Channel Part 2

All values are based on Worst Case 4 Connector Channel configurations according to ISO 11801. 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	7.2	9.2	13.2
500	6.3	13.0	49.5	64.5	66.5	23.0	38.0	40.0	6.0	8.0	11.0

*Standard values based on ISO 11801 Class EA

Essential-6 Cable

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

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 Essential-6 cables have 24 AWG solid copper wires and comply 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 cables are available with a Light Grey PVC or an Orange LSZH outer jacket.

Performance

Nexans Essential-6 cables are compliant with the requirements of the International, European and American cable standards, including ISO/IEC 11801, IEC 61156-5, EN 50173, EN 50288 and TIA/EIA 568-C.2.

Installation

The Essential-6 cables are as easy to install as their Category 5e equivalent, due to their small nominal outer diameter.

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



Standards

International ISO/IEC 11801**National** ANSI/TIA-568-C.2

Essential-6 Cable

Characteristics

Usage characteristics

Range	essential-6
Field of application	Indoor

Product List

☎=Make to order, 📦=In stock

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

☎ = Make to order, 📦 = In stock

Channel Performance

Values given for 2-connector channel, built with Essential-6 cable, outlet and patch panel. (Values specified at 20°C)

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

Essential-6 Keystone Connector

- Complies with the latest Category 6 standards
- Screened and Unscreened versions
- 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 25 year Class E Link Warranty 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 complement all Essential modular components, such as:

- keystone patch panels (black and white)
- keystone outlet modules (UK, US and European formats)

The modular jack is designed for keystone footprints of 14.78mm width, 20-20.78mm height and 1.5mm wall thickness and is compatible with a variety of keystone formatted structural hardware. (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 24 to 22 AWG.

Performance

The Essential-6 keystone connectors are compliant with the specifications of ISO/IEC 11801, EN 50173 and IEC 60603-7.

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 solid core cables.
- Fits Nexans hardware designed for keystone format



Standards

International ISO/IEC 11801

Essential-6 Keystone Connector

Product List

Nexans ref.	Name
☒ N420.136	Essential-6 Keystone Connector Screened
☒ N420.126	Essential-6 Keystone Connector Screened No Rear Cover
☒ N420.116	Essential-6 Keystone Connector Unscreened

☒ = Make to order, ☒ = In stock

Channel Performance

Values given for 2-connector channel, built with Essential-6 cable, outlet and patch panel. (Values specified at 20°C)

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

Electrical and Mechanical Characteristics

Electrical and Mechanical Characteristics

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

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 25 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 white finish.

Performance

The Essential-6 patch panels are compliant with the specifications of ISO/IEC 11801 and IEC 60603-7.

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 IEC 60603-7-4; ISO/
IEC 11801

Essential-6 Patch Panels

Product List

☎ = Make to order, 📦 = In stock

Nexans ref.	Name
📦 N500.206 New	Essential-6 PCB Patch Panel Unscreened 24 RJ45 Cat 6 Rear Connect Black
📦 N424.610	Essential-6 Patch panel 1HU 24 Cat 6 ports, rear connection, black
📦 N424.600	Essential-6 Patch panel 1HU 24 Cat 6 ports, rear connection, white
📦 N424.613	Essential-6 Patch panel 1HU 24 Cat 6 ports, top connection, black
📦 N424.603	Essential-6 Patch panel 1HU 24 Cat 6 ports, top connection, white

☎ = Make to order, 📦 = In stock

Electrical and Mechanical Characteristics

Electrical and Mechanical Characteristics

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

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 25 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
- single module 25x50mm - low profile
- 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

Product List

Nexans ref.	Name
☒ N424.623	Essential-6 LJ6C outlet module 25x39.5mm
☒ N424.621	Essential-6 single outlet module 25x50mm
☒ N424.620	Essential-6 single outlet module 25x50mm - Low Profile

☒ = Make to order, ☒ = In stock

Channel Performance

Values given for 2-connector channel, built with Essential-6 cable, outlet and patch panel. (Values specified at 20°C)

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

Essential-6 Patch Cords

- Comply with latest Category 6 standards
- Screened and unshielded
- Light grey PVC
- Light grey slimline boot with bend relief
- 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 with the complete Essential-6 range in order to deliver a full end-to-end Class E Channel.

Design

The Essential-6 patch cords contain a central PE cross member, keeping the pairs in place and reducing the risk of losing performance when bending the cords. Available in standard lengths of 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 and EN 50173.

Installation

Thanks to their small 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

Electrical characteristics	
Characteristic impedance	100 Ohm
Usage characteristics	
Range	essential-6
Flame retardant	IEC 60332-1

Product List

☎=Make to order, 📦=In stock

Nexans ref.	Name	Screen	Length (m)	Colour	Outer sheath
📦 N101.22ECGG	Essential-6 Patch Cord FTP Cat 6 LSZH Grey 1m	FTP	1	Light grey	LSZH
📦 N101.22EEGG	Essential-6 Patch Cord FTP Cat 6 LSZH Grey 2m	FTP	2	Light grey	LSZH
📦 N101.22EFGG	Essential-6 Patch Cord FTP Cat 6 LSZH Grey 3m	FTP	3	Light grey	LSZH
📦 N101.22EHGG	Essential-6 Patch Cord FTP Cat 6 LSZH Grey 5m	FTP	5	Light grey	LSZH
📦 N101.12ECGG	Essential-6 Patch Cord FTP Cat 6 PVC Grey 1m	FTP	1	Light grey	PVC
📦 N101.12EEGG	Essential-6 Patch Cord FTP Cat 6 PVC Grey 2m	FTP	2	Light grey	PVC
📦 N101.12EFGG	Essential-6 Patch Cord FTP Cat 6 PVC Grey 3m	FTP	3	Light grey	PVC
📦 N101.12EHGG	Essential-6 Patch Cord FTP Cat 6 PVC Grey 5m	FTP	5	Light grey	PVC
📦 N101.21ECOO	Essential-6 Patch Cord UTP Cat 6 LSZH Orange 1m	UTP	1	Orange	LSZH
📦 N101.21EEOO	Essential-6 Patch Cord UTP Cat 6 LSZH Orange 2m	UTP	2	Orange	LSZH
📦 N101.21EFOO	Essential-6 Patch Cord UTP Cat 6 LSZH Orange 3m	UTP	3	Orange	LSZH
📦 N101.21EHOO	Essential-6 Patch Cord UTP Cat 6 LSZH Orange 5m	UTP	5	Orange	LSZH
📦 N101.11ECGG	Essential-6 Patch Cord UTP Cat 6 PVC Grey 1m	UTP	1	Light grey	PVC
📦 N101.11EEGG	Essential-6 Patch Cord UTP Cat 6 PVC Grey 2m	UTP	2	Light grey	PVC
📦 N101.11EFGG	Essential-6 Patch Cord UTP Cat 6 PVC Grey 3m	UTP	3	Light grey	PVC
📦 N101.11EHGG	Essential-6 Patch Cord UTP Cat 6 PVC Grey 5m	UTP	5	Light grey	PVC

☎ = Make to order, 📦 = In stock

Channel Performance

Values given for 2-connector channel, built with Essential-6 cable, outlet and patch panel. (Values specified at 20°C)

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


 Flame retardant
 IEC 60332-1

Essential-6 Patch Cords

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



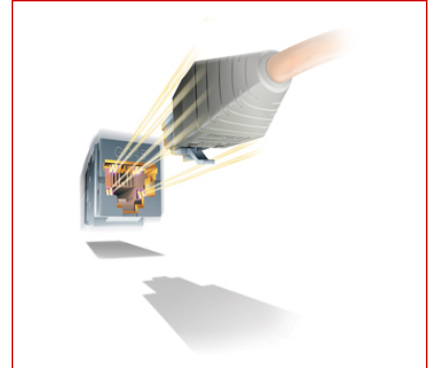
Flame retardant
 IEC 60332-1

Category 7 / 7A

LANmark-7A is the highest performance standards compliant, copper solution available in the market. This Category 7A / Class FA solution provides backwards compatible performance beyond 1000MHz and features the revolutionary GG45 connector.

Recommended uses:

- 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-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.

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



LANmark-7

Standards

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

LANmark-7 Cable

Product List

☎ = Make to order, 📦 = In stock

Nexans ref.	Name	Type of cable	Category
📦 N100.365	LANmark-7 S/FTP Cat 7 600MHz 23 AWG LSZH Orange 1000m Reel	S/FTP	Cat. 7
📦 N100.367 New	LANmark-7 S/FTP Cat 7 600MHz Dual 2x23AWG LSZH Orange 500m Reel	S/FTP Shotgun	Cat. 7

☎ = Make to order, 📦 = In stock

Electrical Performance LANmark-7 600 S/FTP Cable

Electrical Performance LANmark-7 600 S/FTP Cable

Frequency (MHz)	Attenuation (dB/100m)		NEXT (in dB)		ACR (in dB)		PS-NEXT (in dB)		ACR-F (in dB)		PS-ACR-F (in dB)		Return Loss (in dB)	
	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

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
- Supports POE Plus applications (15 Watts per pair)

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, POE Plus, 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


Product List



☎ = Make to order, 📦 = In stock

Nexans ref.	Name
📦 N420.730	LANmark-7 GG45 12C Snap-In Connector Cat 7 600MHz Screened

☎ = Make to order, 📦 = In stock

LANmark-7 GG45 Connector

Nexans ref.	Name
 N420.731	LANmark-7 GG45 12C Snap-In Connector Cat 7 600MHz Screened for stranded wire

 = Make to order,  = In stock

Selling 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 : TSB568B preferred
- Passes all tests for POE Plus Requirements (IEC 60512-99-001 Ed.1)

Contact

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

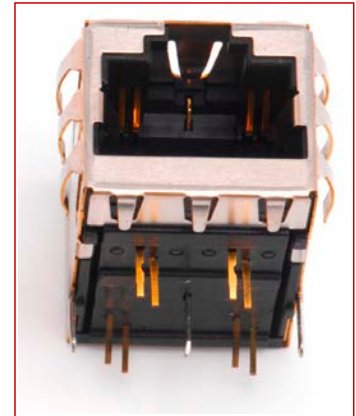
GG45 8C PCB jack

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	13.5 mm
Width	15.24 mm
Depth	21.84 mm
Usage characteristics	
Component function	Connector

Product List

Nexans ref.	Name	Category	Range
 N420.738 New	GG45 Right angle 8 contact jack for PCB mount	Cat. 7A	LANmark-7A
		 = Make to order,  = In stock	

LANmark-7 Patch Cords

Nexans Cat 7 Patch Cords

- High speed multimedia patch cord
- 600 MHz according IEC61076-3-110
- Allow full 4-conductor 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
Electrical characteristics	
Characteristic impedance	100 Ohm
Usage characteristics	
Fire retardant	IEC 60332 Part 1

Product List

☎=Make to order, 📦=In stock

Nexans ref.	Name	Range	Length (m)	Nominal outer diameter (mm)	Mechanical durability/matings
📦 N900.679	LANmark-7 Measurement Cord Cat 7 GG45 4P/GG45 4P LSZH-FR SCR 2 M ORANGE	LANmark-7	2	6.35	1000
📦 N101.239EO	LANmark-7 Patch Cord Cat 7 GG45 4P/GG45 4P LSZH FR SCR 2 M ORANGE	LANmark-7	2	6.35	750
📦 N101.239FO	LANmark-7 Patch Cord Cat 7 GG45 4P/GG45 4P LSZH-FR SCR 3 M ORANGE	LANmark-7	3	6.35	750
📦 N101.239HO	LANmark-7 Patch Cord Cat 7 GG45 4P/GG45 4P LSZH-FR SCR 5 M ORANGE	LANmark-7	5	6.35	750
📦 N101.269OO	LANmark-7 Single End Cord Cat 7 GG45 4P LSZH-FR SCR 10 M ORANGE	LANmark-7	10	6.35	750

☎ = Make to order, 📦 = In stock


 Fire retardant
 IEC 60332 Part 1

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

Properties

- Grey Color



LANmark-7

Standards

International ISO/IEC 11801



Flame retardant
IEC 60332-1

LANmark-7 Splitter Cords

Characteristics

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

Product List

☎=Make to order, 📦=In stock

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

☎ = Make to order, 📦 = In stock


 Flame retardant
 IEC 60332-1

LANmark-7A Cable

- Exceeds Category 7A in terms of ACR and Frequency Range
- Suitable for channels with capacity above 40GBps
- 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.

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.

- 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.

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



LANmark-7A

Standards

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

LANmark-7A GG45 Connector

LANmark-7A GG45

- First RJ45-compatible Cat 7A connector using Nexans unique GG45 interface
- Able to support future applications which require more than 40 Gigabit Shannon capacity
- 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
- Supports POE Plus applications (15 Watts per pair)

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 (4-times of Cat6A). LANmark-7A GG45 uses 12 contacts: 8 contacts for the 1000MHz 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
- POE Plus
- CATV up to 862MHz
- all future Cat 6A and Class EA applications
- all future Cat 7 and Class F applications
- all future Cat 7A and Class FA applications

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

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.



LANmark-7A

Standards

International EN 50173-1;
IEC 60603-7-5; IEEE 802.3af (PoE);
IEEE 802.3at (PoE Plus); ISO/
IEC 11801

LANmark-7A GG45 Connector

- 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
- Passes all tests for POE Plus Requirements (IEC 60512-99-001 Ed.1)

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 GG45 Connector

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

☐ = Make to order, ☐ = In stock

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

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.

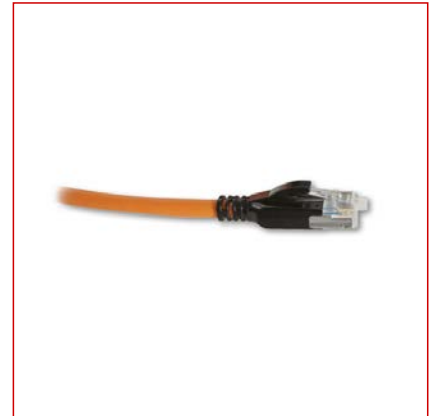
- High Speed patch cords
- Screened
- 2 x GG45 8C 4-pair

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

Product List

 = Make to order,  = In stock

Nexans ref.	Name
 N900.67A	CAT7A Measurement Cord GG45 8C LSZH Orange 2m
 N101.23A00	LANmark-7A Patch Cord Cat 7A 1GHz GG45 8C Screened LSZH Orange 10m
 N101.23A00	LANmark-7A Patch Cord Cat 7A 1GHz GG45 8C Screened LSZH Orange 20m
 N101.23AEO	LANmark-7A Patch Cord Cat 7A 1GHz GG45 8C Screened LSZH Orange 2m
 N101.23AFO	LANmark-7A Patch Cord Cat 7A 1GHz GG45 8C Screened LSZH Orange 3m
 N101.23AHO	LANmark-7A Patch Cord Cat 7A 1GHz GG45 8C Screened LSZH Orange 5m

 = Make to order,  = In stock

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

Contact

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

Modular Patch Panels

LANmark
essential

Snap-In Patch Panels

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

Description

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

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

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

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

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

Nexans offers three main panel versions:

- Angled Panels to support high density environments
- Sliding Panels to allow quick installation and easy maintenance which feature a flexible label for port numbering
- Fixed Panels using screen printed numbering systems for labelling
- The sliding and fixed panels also have LANSense Upgradeable versions



LANmark

Standards

International
Manufacturer specification

Snap-In Patch Panels

Product List

☎=Make to order, 📦=In stock

Nexans ref.	Name
📦 N521.671	Angled Patch Panel 24 Snap-In Black
📦 N521.675	Angled Patch Panel 24 Snap-In White
☎ N52m.001	Maritime Patch Panel for 24 Snap-In connectors
📦 N521.664BK New	Patch Panel 24 Snap-In Black
📦 N521.661BK	Patch Panel 24 Snap-In Fixed Black
📦 N521.661	Patch Panel 24 Snap-In Fixed White
📦 N521.663BK New	Patch Panel 24 Snap-In Sliding Black
📦 N521.663 New	Patch Panel 24 Snap-In Sliding White

☎ = Make to order, 📦 = In stock

Keystone Panels

- Compatible with Nexans keystone connectors
- Designed for Essential-5 and -6 range
- 24 ports on 1HU
- Tie wrap strain relief
- Earthing and grounding features
- Available in black or white

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 24 Nexans Essential 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 black (N521.660BK) and in white (N521.660).

Installation

The Nexans keystone connectors can easily be inserted by a simple "one-click" movement, without the need for 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

Contact

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

Keystone Panels

Product List

Nexans ref.	Name
 N521.660BK	Essential Patch Panel 24 Keystone Black - New Design
 N521.660	Essential Patch Panel 24 Keystone White - New Design

 = Make to order,  = In stock

Modular Outlets

European Mounting Hardware for LANmark

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

Description

LANmark Snap-In Modules in standard European/French style

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

Covering Frames









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



Surface Mount Boxes

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



Product List

Nexans ref.	Name	Width (mm)	Colour	Height (mm)	Depth (mm)
 N200.051	LANmark EU style 45 x 45 frame ivory	80	Ivory	80	
 N200.050	LANmark EU style 45 x 45 frame white	80	White RAL 9010	80	
 N423.550	LANmark EU style 45 x 45 module 2 Snap-In flat white	45	White RAL 9010	45	
 N200.115	LANmark EU style 45 x 45 surface mount box ivory	82	Ivory	82	50
 N200.116	LANmark EU style 45 x 45 surface mount box white	82	White RAL 9010	82	50
 N423.520	LANmark EU style angled 45 x 45 module 1 Snap-In white	45	White RAL 9010	45	36
 N423.541N	LANmark EU style angled 45 x 45 module 2 Snap-In ivory	45	Ivory	45	36
 N423.540N	LANmark EU style angled 45 x 45 module 2 Snap-In white	45	White RAL 9010	45	36

 = Make to order,  = In stock

German Mounting Hardware for LANmark

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

Description

Application

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

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

Detailed information can be found on the corresponding datasheets.

Guarantees

All plastic material is UL 94V0.



LANmark

Standards

International
 Manufacturer specification

Product List

☎=Make to order, 📦=In stock

Nexans ref.	Name	Colour
☎ N790.981	LANmark German Style 50x50 Frame Ivory	Ivory
📦 N790.980	LANmark German Style 50x50 Frame White	White RAL 9010
📦 N900.247	LANmark German Style 50x50 Surface mount box White	White RAL 9010
☎ N423.711	LANmark German Style Angled 50 x 50 Module 1 Snap-In Ivory	Ivory
☎ N423.701	LANmark German Style Angled 50 x 50 Module 1 Snap-In White	White RAL 9010
☎ N423.712	LANmark German Style Angled 50 x 50 Module 2 Snap-In Ivory	Ivory
📦 N423.702	LANmark German Style Angled 50 x 50 Module 2 Snap-In White	White RAL 9010
📦 N423.702N New	LANmark German Style Angled 50 x 50 Module 2 Snap-In White	White RAL 9010

☎ = Make to order, 📦 = In stock

UK Mounting Hardware for Essential

To support the Essential range of products Nexans has developed a set of UK connecting hardware in Keystone format. For LANmark specific connecting hardware, please refer to "UK Mounting Hardware for LANmark".

Nexans backboxes and cover plates have Euromod dimensions and are common throughout the Essential and LANmark ranges.

Description

- **LJ6 Keystone Module**

LJ6C shuttered module to accommodate one Keystone connector.

- **25 x 50 Keystone Module**

Euromod 25x50mm shuttered module to accommodate one Keystone connector.

Euromod modules fit Nexans single and double gang cover plates.

- **Single and Double Gang Cover Plates**

Available in flat and bevelled version.

- **Single and Double Back Box**



essential

Standards

International ISO/IEC 11801

UK Mounting Hardware for Essential

Product List

☎=Make to order, 📦=In stock

Nexans ref.	Name
📦 N423.635	Essential 86x86 Wallplate 1 Keystone White
📦 N423.630	Essential 86x86 Wallplate 2 Keystone White
📦 N423.650	Essential UK style 25x50 module 1 keystone White
📦 N424.533	UK Back Box - Double Gang
📦 N424.532	UK Back Box - Single Gang
📦 N424.023	UK Cover Plate - Double Gang
📦 N424.531	UK Cover Plate - Double Gang - Bevelled
📦 N424.013	UK Cover Plate - Single Gang
📦 N424.530	UK Cover plate - Single Gang - Bevelled
📦 N424.103	UK Half Blank
📦 N424.003	UK Quarter Blank

☎ = Make to order, 📦 = In stock

UK Mounting Hardware for LANmark

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

Description

LANmark Snap-In Modules in standard UK styles

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

Single and Double gang Frames

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

Blank Modules

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

Single and Double gang Back Boxes

Suitable with the single and double gang frames.

**LANmark**

Standards

International ISO/IEC 11801

UK Mounting Hardware for LANmark

Product List

☎=Make to order, 📦=In stock

Nexans ref.	Name
📦 N423.861	LANmark 86x86 Wallplate 1 Snap-In White
📦 N423.862	LANmark 86x86 Wallplate 2 Snap-In White
📦 N423.864	LANmark 86x86 Wallplate 4 Snap-In White
📦 N424.310 New	LANmark UK Style 25 x 50 Module 1 Snap-In White
📦 N800.421	LANmark UK Style 45x45 Frame Rounded White
📦 N424.315 New	LANmark UK Style Angled 25 x 50 Module 1 Snap-In White
📦 N424.204N Substituted	LANmark UK Style Angled 25 x 50 Module 1 Snap-In White (use Blue Keystone Clip)
📦 N423.540U	LANmark UK Style Angled 50 x 50 Module 2 Snap-In White
📦 N423.540UN	LANmark UK Style Angled 50 x 50 Module 2 Snap-In White
📦 N424.325 New	LANmark UK Style Angled LJ6C Module 1 Snap-In White
📦 N424.203 To be removed	LANmark UK Style Angled LJ6C Module 1 Snap-In White (use Yellow Keystone Clip)
📦 N424.213 Substituted	LANmark UK Style LJ6C Module 1 Snap-In White
📦 N424.320 New	LANmark UK Style LJ6C Module 1 Snap-In White
📦 N424.113 Substituted	UK 25x50 Flat Module for Snap-ins
📦 N424.531	UK Style 100 x 50 Frame Beveled White
📦 N424.023	UK Style 100 x 50 Frame Flat White
📦 N424.003	UK Style 12.5 x 50 Blank Module White
📦 N424.103	UK Style 25 x 50 Blank Module White
📦 N424.530	UK Style 50 x 50 Frame Beveled White
📦 N424.013	UK Style 50 x 50 Frame Flat White
📦 N424.533	UK Style Backbox Double Gang White
📦 N424.532	UK Style Backbox Single Gang White

☎ = Make to order, 📦 = In stock

US Mounting Hardware for LANmark

- 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)

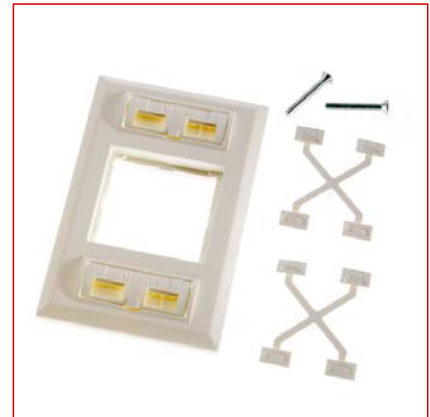
Detailed information can be found on the corresponding datasheets.

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.

**LANmark**

Standards

International UL and CSA approval
National UL 94 V0

US Mounting Hardware for LANmark

Product List

☎=Make to order, 📦=In stock

Nexans ref.	Name	Width (mm)	Colour	Height (mm)	Depth (mm)
☎ N420.001	45x20 Blanking module for US cover plate	45	White RAL 9010	20	26.5
☎ N421.610	45x20 Module for 2 Snap-in connectors for US cover plate	45	White RAL 9010	20	16.5
📦 N422.001	US Cover plate for 45x45 Outlet with labelling system	70.5	White RAL 9010	115	14
📦 N423.001	US Cover plate for 60x45 Outlet with labelling system	70.5	White RAL 9010	115	14

☎ = Make to order, 📦 = In stock

Contact

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

3rd Party Hardware

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

Description

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

**Standards**

International ISO/IEC 11801

3rd Party Hardware

Product List

☎=Make to order, 📦=In stock

Nexans ref.	Name
📦 N800.305	LANmark BTicino Living/Light Module 1 Snap-In Black 20x
☎ N800.306	LANmark BTicino Living/Light Module 1 Snap-In White 20x
📦 N423.110	Floorbox Plate GES6 Ackermann/Obo 6 Snap-In (use keystone clip)
📦 N423.111	Floorbox Plate GES9 Ackermann/Obo 9 Snap-In (use keystone clip)
☎ N800.313	LANmark Schneider Module 1 Snap-In White 100x
☎ New	

☎ = Make to order, 📦 = In stock

European Mounting Hardware for Essential Keystone

- European mounting hardware in keystone format
- Designed for Essential-5 and -6 keystone range
- Supplied in glossy white finish
- Also available in UK and US format.

Description

To support the Essential-5 and -6 Keystone range, Nexans has developed specific mounting hardware in keystone format. Please refer to the specific datasheets for keystone modules, frames and blanks.






essential-6



Standards

International ISO/IEC 11801

European Mounting Hardware for Essential Keystone

Product List

Nexans ref.	Name
 N423.645	Essential EU style 22.5 x 45 module 1 Keystone white
 N424.102	Essential EU style 22.5x45 blank module white
 N200.645	Essential EU style 45x45 frame white

 = Make to order,  = In stock

US Mounting Hardware for Essential

- US mounting hardware in keystone format
- Designed for Essential-5 and -6 keystone range
- Supplied in textured white finish
- Equipped with labelling windows
- Screws included

Description

To support the Essential Keystone range Nexans has developed specific mounting hardware in keystone format in European, UK and US style.

Please refer to the related product datasheets for the different available modules, frames and blanks in various country specific versions.



essential-6

Standards

International ISO/IEC 11801

Contact

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

US Mounting Hardware for Essential

Product List

Nexans ref.	Name
 N423.622	Essential US style Wallplate 2 Keystone Single Gang White
 N423.624	Essential US style Wallplate 4 Keystone Single Gang White

 = Make to order,  = In stock

Contact

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

Voice grade

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



Contact

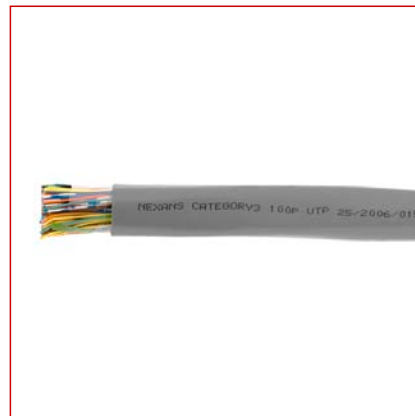
LAN Systems (Nexans Cabling Solutions)
Phone: +44 (0)1256 486640
ncs.uk@nexans.com

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

☞=Make to order, ☐=In stock

Nexans ref.	Name	Type of cable	Number of pairs	Outer sheath	Category
☐ N100.809N	Voice U/UTP 100 pair AWG24 Cat 3 PVC Grey 500m reel	U/UTP	100	PVC	Cat. 3
☐ N100.M02	Voice U/UTP 25 pair AWG24 Cat 5 LSZH Orange 1000m reel	U/UTP	25	LSZH	Cat. 5
☐ N100.M01	Voice U/UTP 25 pair AWG24 Cat 5 PVC Grey 1000m reel	U/UTP	25	PVC	Cat. 5
☐ N100.808N	Voice U/UTP 50 pair AWG24 Cat 3 PVC Grey 500m reel	U/UTP	50	PVC	Cat. 3
☐ N100.M04	Voice U/UTP 50 pair AWG24 Cat 5 LSZH Orange 500m reel	U/UTP	50	LSZH	Cat. 5

☞ = Make to order, ☐ = In stock

IDC connectivity and accessories

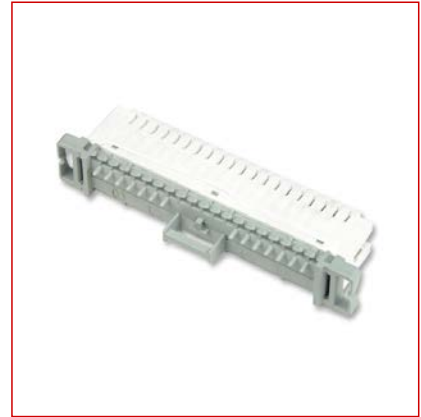
Complete range of LSA+ voice connectivity and accessories

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

☎=Make to order, 📦=In stock

Nexans ref.	Name
📦 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
📦 N102.332	Voice IDC Label Holder for Frame
📦 N102.310	Voice LSA+ Disconnection Module 10 pair
☎ 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
☎ = Make to order, 📦 = In stock	

Contact

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

Voice Patch Panels

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

Description

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

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



Standards

International ISO/IEC 11801

Voice Patch Panels

Product List

Nexans ref.	Name
 N500.350BK	Voice Patch Panel 50 RJ45 2 pair Black
 N500.350	Voice Patch Panel 50 RJ45 2 pair White

 = Make to order,  = In stock

Contact

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

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

☎=Make to order, 📦=In stock

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

☎ = Make to order, 📦 = In stock

Tools & Accessories

Contact

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

Cable ties

Description

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




Standards



International ISO/IEC 11801

Contact

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

Cable ties**Product List**

Nexans ref.	Name
 N100.100 New	Hook & Loop Cable Strap 25m Roll

 = Make to order,  = In stock

Coloured Latch Protectors

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

Description

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

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

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

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

Available colours:

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

**LANmark**

Standards

International ISO/IEC 11801

Coloured Latch Protectors

Product List

☎ = Make to order, 📦 = In stock

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

☎ = Make to order, 📦 = In stock

Contact

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

Coloured Shutters

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

Description

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

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

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

Available colours:

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



LANmark

Standards

International ISO/IEC 11801

Coloured Shutters

Product List

☎ = Make to order, 📦 = In stock

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

☎ = Make to order, 📦 = In stock

Contact

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

Tools

Description

Nexans have a complete range of tools for terminating copper systems



Standards

International ISO/IEC 11801

Tools

Product List

☎=Make to order, 📦=In stock

Nexans ref.	Name
📦 N102.107	Tool - LSA+ IDC punchdown tool
📦 N422.117	Tool - LANmark-7 Easy Termination tool
☎ N422.118	Tool - Set of spare knives for LANmark-7 Easy Termination tool
📦 N420.567	Tool - Universal Comfort tool for Snap-in connector
📦 N808.6000	Universal Termination Tool for 808 connector
☎ N420.110	Tool - Nexans cable stripper, 110 punchdown tool
📦 N500.120	19" support tray for termination

☎ = Make to order, 📦 = In stock

Contact

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

Keystone Clips

- Adaptor clips for LANmark Snap-In connectors

Description

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







LANmark


Standards

International ISO/IEC 11801

Keystone Clips

Product List

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

☎ = Make to order,  = In stock

Pre-terminated Copper

LANmark Pre-Term Bundles

- Ideal assemblies for high density cabling and datacenters
- Bundles available for Jack-Jack or Jack-Plug or Plug-Plug units
- Bundles available for 6, 12 or 24 units
- Cat.6, 6A, 7 or 7A performance supported
- Fully screened and compliant to Alien Crosstalk requirements
- Repeatable and stable level of performance
- Individual units are helically assembled together to form a round and stable bundle
- Bundles are suitable for laying but not pulling operation

Description

Application

LANmark Pre-Term Bundles are assemblies of 6, 12 or 24 pre-terminated units. These can be Jack-Jack, Jack-Plug or Plug-Plug units. These units are oversheathed by a black braid which maintains the cables in their position and facilitates easy installation at the same time. LANmark Pre-Term Bundles are well suited for areas where installation time is limited. Bundles of shielded units ensure immunity from Alien Crosstalk and other external interference. Bundles of shielded units do not require on-site testing for Alien Crosstalk since this new parameter is met by design.

Performance

Cat.6/Class E, Cat.6A/Class EA, Cat.7/Class F or Cat.7A/Class FA units can be bundled. Headroom and bandwidth over and above the given category requirements according to the international, European and American standards especially for NEXT/FEXT, Power Sum NEXT/FEXT and Return Loss are guaranteed. When used in combination with LANmark patch cords of the same category the full 100m four-connector links and channels are guaranteed as well.

Installation

Nexans LANmark Pre-Term Bundles help reducing the installation time. One assembly needs to be laid instead of 6, 12 or 24 single cables. Furthermore connector termination is simply eliminated. Connectors are mounted and tested in our factory.

Nexans LANmark Pre-Term Bundles are designed to be laid and are not suitable for pulling.

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

- Fast and straight forward installation
- No need for on-site termination
- Reduction of installation time
- 360° EMC protection and alien crosstalk compliance for shielded products
- Support the 4 connectors channel configuration
- **Numbering on each leg (customizable)**
- **Factory tests in paper or electronic format on request**

Guarantees

Nexans LANmark Pre-Term bundles are covered by a parts and labour warranty as described in the Nexans Certified System Warranty. When installed in combination with LANmark patch cords of the same category, a 25 year channel warranty can be obtained.



Standards

International ISO/IEC 11801:2002/
Amd 2:2010/Cor 1:2010

National TIA/EIA-568-B.2-10

LANmark Pre-Term Bundles

Product List

☎=Make to order, 📦=In stock

Nexans ref.	Name
	☎ = Make to order, 📦 = In stock

Selling information

Nexans LANmark Pre-Term Bundles can be ordered in any length up to 90m. Please refer to Nexans Design Guidelines for length calculations and limitations according to the standards. Individual packaging in boxes (L <30m) or one way reel (L>30m). Customized packaging on demand.

LANmark Pre-Term Units

- Pre-Term units available in Jack-Jack or Jack-Plug or Plug-Plug assemblies
- Cat.6, 6A, 7 or 7A performance supported
- Repeatable and stable level of performance
- Significant reduction of cable laying time

Description

Application

LANmark Pre-Term pre-terminated units can be Jack-Jack, Jack-Plug or Plug-Plug assemblies. LANmark Pre-Term units are well suited for areas where installation time is limited. Shielded units ensure immunity from electromagnetic interferences and do not require on-site testing for Alien Crosstalk since this new parameter is met by design.

Performance

Cat.6/Class E, Cat.6A/Class EA, Cat.7/Class F or Cat.7A/Class FA units can be made. Headroom and bandwidth over and above the given category requirements according to the international, european and american standards especially for NEXT/FEXT, Power Sum NEXT/FEXT and Return Loss are guaranteed. When used in combination with LANmark patch cords of the same category the full 100m four-connector links and channels are guaranteed as well.

Installation

Nexans LANmark Pre-Term Units help reducing the installation time since connectors termination is simply eliminated. Connectors are mounted and tested in our factory.

Nexans LANmark Pre-Term Units are designed to be laid and are not suitable for pulling.

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

- Fast and straight forward installation
- No need for on-site termination
- Reduction of installation time
- 360° EMC protection and alien crosstalk compliance for shielded products
- Support the 4 connectors channel configuration
- **Numbering on each Unit (customizable)**
- **Factory tests in paper or electronic format on request**

Guarantees




Nexans LANmark Pre-Term Units are covered by a parts and labour warranty as described in the Nexans Certified System Warranty. When installed in combination with LANmark patch cords of the same category, a 25 year channel warranty can be obtained.



Standards

International ISO/IEC 11801

LANmark Pre-Term Units

Product List

Nexans ref.	Name
 N61A.2C21A4XA4X--- New	LANmark-6 Pre-Term Cat 6 F1/UTP Solid LSZH Orange Screened Jack Cat 6 unit
 N61B.4G21A6XA6X--- New	LANmark-6A Pre-Term 2x4 Pair Cat 6A F/FTP Solid LSZH Orange Screened Jack Cat 6A unit
 N61A.4F11A6XC6X--- New	LANmark-6A Pre-Term Cat 6A U/FTP Stranded LSZH Orange Screened Jack-Plug Cat 6A unit

 = Make to order,  = In stock

Selling information

Nexans LANmark Pre-Term Units can be ordered in any length up to 90m. Please refer to Nexans Design Guidelines for length calculations and limitations according to the standards. Individual packaging in boxes (L <30m) or one way reel (L >30m). Customized packaging on demand.

LANmark-6A Pre-Term Multipair Cat 6A RJ45 Jack-Jack

- Ideal assemblies for 10GBase-T applications and datacenters
- Fully compliant to the new Category 6A and Class EA standards
- Guaranteed performance in 2, 3 or 4 connectors channels up to 500MHz
- Very short distances for datacenters supported
- Fully screened and compliant to Alien Crosstalk requirements
- Enable fast installation and eliminate field termination
- Repeatable and stable level of performance

Description

Application

LANmark-6A Pre-Term Category 6A U/FTP solid LSZH orange screened Jack Category 6A assemblies 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 making the assemblies are screened to ensure immunity from Alien Crosstalk and other external interference and are specified up to frequencies of 500MHz. LANmark-6A EVO jacks use a fully closed rear cover providing 360° screening and excellent coupling attenuation. The Multipair cable is made of individually screened pairs assembled in several 4 pair units. These LANmark-6A Pre-Term Category 6A assemblies do not required on-site testing for Alien Crosstalk since this new 10G parameter is met by design.

- 10Base-T Ethernet
- 100Base-TX Fast Ethernet
- 1000Base-TX Gigabit Ethernet
- 10GBase-T 10 Gigabit Ethernet IEEE 802.3an
- 155 Mbit ATM
- 1.2 Gbit ATM
- future Cat 6A and Class EA applications

Performance

With guaranteed performance to 500MHz, Nexans LANmark-6A Pre-Term Category 6A assemblies provide guaranteed headroom and bandwidth over and above the Category 6A / Class EA requirements of international, european and american standards especially for NEXT/FEXT, Power Sum NEXT/FEXT and Return Loss. When used in combination with LANmark-6A 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. This enables to achieve high performing 4 connectors channels as well as very short link and channel configurations needed in data centres with up to 3 connection points within 12 meters.

Installation

Nexans LANmark-6A Pre-Term Category 6A assemblies have the advantage of offering significantly smaller dimensions and reduced weight compared to the equivalent standard 4 pair cables. They also provide a significant installation advantage. Cable pulling is reduced to one unit. Connectors termination is simply eliminated.

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



Standards

International EN 50173-5;
IEEE 802.3an; ISO/IEC 24764; ISO/
IEC 11801:2002/Amd 2:2010/
Cor 1:2010
National ANSI/TIA-568-C.2; TIA/
EIA-942

LANmark-6A Pre-Term Multipair Cat 6A RJ45 Jack-Jack




- Fast and straight forward installation
- No need for on-site termination
- 360° EMC protection and alien crosstalk compliance
- Support the 4 connectors channel configuration
- Support short links
- Designed for datacentres
- **Numbering on each leg (customizable)**
- **Factory tests in paper or electronic format on request**



Guarantees

Nexans LANmark-6A Pre-Term Category 6A assemblies are covered by a parts and labour warranty as described in the Nexans Certified System Warranty. When installed in combination with LANmark-6A patch cords, a 25 year channel warranty can be obtained covering full 10GBase-T support and full Cat 6A/Class EA compliance.

LANmark-6A Pre-Term Multipair Cat 6A RJ45 Jack-Jack

Product List

Nexans ref.	Name
 N61C.4F21A6XA6X--- New	LANmark-6A Pre-Term Multipair 3x4 pair Cat 6A U/FTP Solid LSZH Orange Screened Jack Cat 6A
 N61D.4F21A6XA6X--- New	LANmark-6A Pre-Term Multipair 4x4 pair Cat 6A U/FTP Solid LSZH Orange Screened Jack Cat 6A
 N61E.4F21A6XA6X--- New	LANmark-6A Pre-Term Multipair 6x4 pair Cat 6A U/FTP Solid LSZH Orange Screened Jack Cat 6A

 = Make to order,  = In stock

Electrical Performance LANmark-6A 4 Connector Channel Part 1

"All values are based on Worst Case 4 Connector Channel configurations according to ISO 11801. 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 ISO 11801 Class EA

LANmark-6A Pre-Term Multipair Cat 6A RJ45 Jack-Jack

Electrical Performance LANmark-6A 4 Connector Channel Part 2

All values are based on Worst Case 4 Connector Channel configurations according to ISO 11801. Minimal and maximum values represent guaranteed channel performance

Freq in MHz	PS ACR-F		PS ANEXT			PS AACR-F			RL		
	in dB		in dB			in dB			in dB		
	Std	Typ	Std	Min	Typ	Std	Min	Typ	Std	Min	Typ
1	60.3	66.9	80.0	90.0	92.0	77.0	92.0	94.0	19.0	21.0	21.0
4	48.2	54.9	74.0	89.0	91.0	65.0	80.0	82.0	19.0	21.0	32.0
10	40.3	46.9	70.0	85.0	87.0	57.0	72.0	74.0	19.0	21.0	28.0
16	36.2	42.9	68.0	83.0	85.0	52.9	67.9	69.9	18.0	20.0	26.0
20	34.2	40.9	67.0	82.0	84.0	51.0	66.0	68.0	17.5	19.5	25.0
31.25	30.4	37.0	65.1	80.1	82.1	47.1	62.1	64.1	16.5	18.5	23.1
62.5	24.3	31.0	62.0	77.0	79.0	41.1	56.1	58.1	14.0	16.0	20.0
100	20.3	26.9	60.0	75.0	77.0	37.0	52.0	54.0	12.0	14.0	18.0
155	16.5	23.1	57.1	72.1	74.1	33.2	48.2	50.2	10.1	12.1	16.1
200	14.2	20.9	55.5	70.5	72.5	31.0	46.0	48.0	9.0	11.0	15.0
250	12.3	19.0	54.0	69.0	71.0	29.0	44.0	46.0	8.0	10.0	14.0
300	10.7	17.4	52.8	67.8	69.8	27.5	42.5	44.5	7.2	9.2	13.2
500	6.3	13.0	49.5	64.5	66.5	23.0	38.0	40.0	6.0	8.0	11.0

*Standard values based on ISO 11801 Class EA

Selling information

Nexans LANmark-6A Pre-Term Category 6A assemblies can be ordered in any length up to 90m. Please refer to Nexans Design Guidelines for length calculations and limitations according to the standards. Individual packaging in boxes (L <30m) or one way reel (L >30m). Customized packaging on demand.

Patch Panels for LANmark Copper Cassettes

- Suitable for LANmark copper cassettes
- 1U 4 cassettes (24 ports) straight or 1U 4 cassettes (24 ports) angled or 3U 16 cassettes (96 ports) straight
- Black coating with white numbering
- Rapid and straight forward installation of the cassettes
- Exclusive Auto-Connect Earthing system
- Automatic grounding mechanism for the cassettes

Description

Nexans patch panels for LANmark copper cassettes are designed to accommodate the copper pre-terminated assemblies fitted with the LANmark copper cassettes. These cassettes are designed to host 6 copper Snap-In connectors from the LANmark product family (LANmark-7A, LANmark-6A and LANmark-6).

These panels feature an exclusive grounding system. It provides a simple means of earthing the cassettes to facilitate installation. Connection of the panel to earth is achieved with a unique Auto-Connect feature removing the need for individual bonding conductors.

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

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

- 24 or 96 ports
- Designed for screened and unscreened Snap-In connectors
- Compatible with all performance categories of connector
- Automatic and simple earthing
- Robust construction

Nexans offers three main panel versions:

- 1U straight panels for standard installations
- 1U angled panels to support high density environments
- 3U straight panels to support very high density environments
- Screen printed numbering systems for labelling

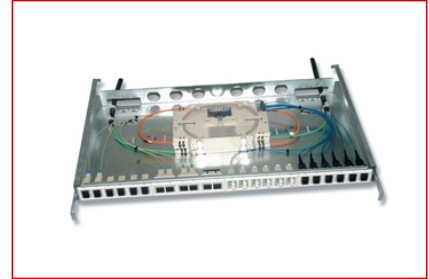
Optical Fibre

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.p>

LANmark-OF OM1, OM2 & OF sm

Standard Multimode & Singlemode performance. LANmark-OF OM1 is the MM62.5 version, LANmark-OF OM2 the MM50 version, LANmark-OF sm the singlemode version.

LANmark-OF OM3 & OM4

OM3 compliant 50/125 for 10 Gigabit applications up to 300m and up to 550m respectively..

EIA Fibre Colour Table

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

Optical cable specifications

- Full range of standard compliant multimode cables
- Singlemode OS2 cables

Description

LANmark-OF OM3 and OM4: Fibre cables with high performance multimode fibres for 10, 40 and 100 Gb/s Ethernet LAN applications

LANmark-OF OM3 and OM4 from Nexans Cabling Solutions offers fully OM3 and OM4 standard compliant multimode fibres. LANmark-OF OM3 and OM4 ensures highest bandwidth performance for Premises, Local Area Network (LAN) and Storage Area Network (SAN) while its optimised design for low-cost 850 nm lasers (VCSEL) contributes to overall system cost reduction.

The low attenuation values of 3.0 dB/km @ 850 nm exceed the requirements of the ISO/IEC 11801 standard. The superior geometric tolerances compared to the fibre standard reduce the connector loss due to improved coupling from the light. The effective modal bandwidth is measured with the most stringent DMD characterisation methods: LANmark-OF cables are measured against both the Effective Modal Bandwidth Calculated (EMBc) method and the mask templates standard.



LANmark-OF

Standards

International ISO/IEC 11801

LANmark-OF OM3: Key performance characteristics

- Guarantees reliable system performance for 10 Gb/s Ethernet serial transmission over 330 m.
- Guarantees reliable system performance for 40 Gb/s and 100 Gb/s Ethernet transmission over 100 m.
- Guaranteed OM3 compliance: Effective Modal Bandwidth (EMB) of 2000 Mhz.km.
- Compliant to annex D2 (DMD template requirements) and annex D3 (EMBc: calculated effective modal bandwidth) of IEC 60793-2-10 ed. 4.
- IEC 60793-2-10 as fibre type A1a.2

LANmark-OF OM4: Key performance characteristics

- Guarantees reliable system performance for 10 Gb/s Ethernet serial transmission over 550 m
- Guarantees reliable system performance for 40 Gb/s and 100 Gb/s Ethernet transmission over 150 m with LANmark-OF low loss connectivity.
- Guaranteed OM4 compliance: Effective Modal Bandwidth (EMB) of 4700 Mhz.km.
- Compliant to annex D4 (DMD template requirements) and annex D5 (EMBc: calculated effective modal bandwidth) of IEC 60793-2-10 ed. 4.
- Compliant to IEC 60793-2-10 as fibre type A1a.3

Standardization and compliances for LANmark-OF OM3 and LANmark-OF OM4

- IEC 60793-1-49: differential mode delay (DMD) to measure effective modal bandwidth (EMB)
- IEC 60793-1-41: overfilled mode launch bandwidth (OFL BW)
- ISO/IEC 11801 (2) as OM3 and OM4 fibre

LANmark-OF OS2 Singlemode cables with low water peak

Optical cable specifications

singlemode fibre (G.652.D)

Singlemode OS2 cables from Nexans Cabling Solution are cables with full spectrum fibres and provide enhanced performance across the entire 1260 nm to 1625 nm wavelength range. Due to its long-term low attenuation at the 1383 nm water peak region the fibres allow operation in the expanded band (wavelength across 1360 to 1480 nm).

Its full-spectrum capability allows use of lasers for DWDM and CWDM technologies. LANmark-OF OS2 Singlemode cables have low attenuation values across the entire wavelength range. They are full compatibility and interoperability with the installed fibre base, including standard singlemode fibre according to ITU-T G652A, B and C.

Standardization and compliances for LANmark-OF Singlemode OS2

- ITU-T as fibre type G.652.D
- Singlemode OS2 cable defined in ISO/IEC 11801 amendment 2
- IEC 60793-1
- IEC 60793-2-50 as fibre type B1.3

LANmark-OF OM3 and OM4: Optical Performance

Characteristics	OM3 Spec Values	OM4 Spec Values	Unit
Bandwidth (Overfilled Launch) 850 nm	1500	3500	Mhz.km
Bandwidth (Overfilled Launch) 1300 nm	500	500	Mhz.km
Effective Modal Bandwidth (EMB) 850 nm	2000	4700	Mhz.km
Transmission link lengths for 1 Gb/s (SX/LX)	880/550	900/550	m
Transmission link lengths for 10 Gb/s (SR/LX4)	330/300	550*/300	m
Transmission link lengths for 40 Gb/s (SR4)	100	150*	m
Transmission link lengths for 100 Gb/s (SR10)	100	150*	m
Attenuation 850 nm	3.0	3.0	dB/km
Attenuation 1300 nm	1.0	1.0	dB/km
Attenuation uniformity	0.2	0.2	dB
Numerical Aperture	0.20 ± 0.02	0.20 ± 0.02	

* with engineered link of maximum 1.0 dB connector insertion loss

LANmark-OF OM3 and OM4: Geometrical Characteristics

Characteristic	Spec Values	Unit
Core Diameter	50 ± 2.5	µm
Core Non-Circularity	6.0	%
Core/Clad Concentricity	1.5	µm
Cladding Diameter	125 ± 1.0	µm
Cladding Non-Circularity	1.0	%
Coating Diameter	250 ± 15.0	µm
Coating/Clad Concentricity Error	10.0	µm

Optical cable specifications

LANmark-OF OS2 Singlemode cables: Optical Performance

Characteristics	Spec Values	Unit
Fibre type	G.652.D	
Transmission link length for 1000Base-LX	5000	m
Transmission link length for 10GBase-LR	10000	m
Transmission link length for 10GBase-LX4	10000	m
Transmission link length for 10Gbit-FC	10000	m
Attenuation 1300 nm	0.40	dB/km
Attenuation 1385 nm	0.40	dB/km
Attenuation 1550 nm	0.28	dB/km
Attenuation uniformity	0.2	dB
Cut-off wavelength	1150 - 1330	nm
Dispersion 1285-1330 nm	3.5	ps/nm.km
Dispersion 1550 nm	18	ps/nm.km
Zero dispersion	1310 ± 10	nm
Dispersion mode polarisation	0.2	ps/ km

LANmark-OF Singlemode OS2 cables: Geometrical Characteristics

Characteristic	Spec Values	Unit
Mode Field Diameter	9.2 ± 0.5	µm
Cladding Diameter	125 ± 1.0	µm
Coating Diameter	245 ± 10.0	µm
Core Non-Circularity	6.0	%
Cladding Non-Circularity	2.0	%
Proof test	100	psi

LANmark-OF Tight Buffer Universal

- Tight Buffer Universal optical fibre cable
- Indoor cable and outdoor installation in a duct
- Fully waterproof and rodent retardant
- Designed for direct termination and splicing
- Available in 2-24 fibres and in SM, OM3 and OM4

Description

Description and Application

The LANmark-OF Tight Buffer Universal cable is a fibre cable that can be used indoor and outdoor in a duct.

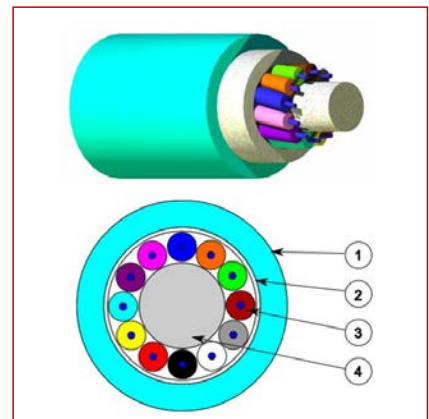
It complies with the indoor fire requirements and can be installed indoor both vertically and horizontally.

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

The LANmark-OF Tight Buffer Universal cable has 900 um buffered fibres. This second coating till 900 um provides additional protection of the fibres and facilitates the handling when terminating the fibres in a patch panel. The easy strip tight buffer design allows stripping the fibre over 10 cm in one action.

The LANmark-OF Tight Buffer Universal is most suitable for direct termination by either anaerobic or hot melt connectors. The tight buffered fibres can also be terminated with splicing of pigtailed.

Tight buffer cables are available in Aqua for OM3 and OM4 and Yellow for singlemode. High exposure to UV radiation and sunlight could lead to fading of the Aqua and Yellow jacket, but the mechanical integrity of the cable jacket will be maintained.



LANmark-OF

Standards

International ISO/IEC 11801

Construction

Legend accompanying the cross section drawing:

1. LSZH outer sheath with UV resistant additive
2. Watertight glass yarns
3. Optical fibres (900 um)
4. Central strength element



Mechanical resistance to impacts
10 impacts of 3 Nm



Flame retardant
IEC 60332-1



Fire retardant
IEC 60332-3



Ambient installation temperature, range
0 .. 40 °C



Operating temperature, range
-40 .. 70 °C



Storage temperature, range
-40 .. 70 °C



Gases toxicity
IEC 61034



Gases corrosivity
IEC 60754-1,
IEC 60754-2

LANmark-OF Tight Buffer Universal

Characteristics

- Designed for direct termination and splicing
- Dielectric design
- Indoor cable for horizontal and vertical installations
- Fire performance compliant with IEC 60332-1, IEC 60332-3, NFC 32070 C2, and NFC 32070 C1
- Outdoor cable for installation in a duct
- Fully waterproof
- Rodent retardant
- UV resistant
- Available in SM, OM3 and OM4
- Available in 2-24 fibres

Characteristics









Mechanical characteristics	
Mechanical resistance to impacts	10 impacts of 3 N.m
Crush resistance (IEC 60794-1-E3)	100 N/cm
Usage characteristics	
Flame retardant	IEC 60332-1
Fire retardant	IEC 60332-3
Ambient installation temperature, range	0 .. 40 °C
Operating temperature, range	-40 .. 70 °C
Storage temperature, range	-40 .. 70 °C
Gases toxicity	IEC 61034
Gases corrosivity	IEC 60754-1, IEC 60754-2

Mechanical and Dimensional Characteristics for Tight Buffer Universal

Nb optical fibres	Nom. outer diam. [mm]	Approx. weight [kg/km]	static bending rad. [mm]	Min. dynamic operating bending rad. [mm]	Maximum pulling force (IEC 60794-1-2-E1) [N]	Maximum operating pulling force [N]
2	5.3	33	55	85.0	700	200
4	5.3	33	55	85.0	700	200
6	5.3	33	55	85.0	700	200
8	5.9	41	65	95.0	1000	300
12	6.5	47	70	100.0	1000	300
24	7.8	71	80	120.0	1500	450

N-numbers for Tight Buffer Universal

Fiber optic type	Nexans ref.	Name
OM3 50/125	N165.TBUN02A	LANmark-OF Tight Buffer Universal 2x Multimode 50/125 OM3 LSZH Aqua
OM3 50/125	N165.TBUN04A	LANmark-OF Tight Buffer Universal 4x Multimode 50/125 OM3 LSZH Aqua

							
Mechanical resistance to impacts 10 impacts of 3 N.m	Flame retardant IEC 60332-1	Fire retardant IEC 60332-3	Ambient installation temperature, range 0 .. 40 °C	Operating temperature, range -40 .. 70 °C	Storage temperature, range -40 .. 70 °C	Gases toxicity IEC 61034	Gases corrosivity IEC 60754-1, IEC 60754-2

LANmark-OF Tight Buffer Universal

Fiber optic type	Nexans ref.	Name
OM3 50/125	N165.TBUN06A	LANmark-OF Tight Buffer Universal 6x Multimode 50/125 OM3 LSZH Aqua
OM3 50/125	N165.TBUN08A	LANmark-OF Tight Buffer Universal 8x Multimode 50/125 OM3 LSZH Aqua
OM3 50/125	N165.TBUN12A	LANmark-OF Tight Buffer Universal 12x Multimode 50/125 OM3 LSZH Aqua
OM3 50/125	N165.TBUN24A	LANmark-OF Tight Buffer Universal 24x Multimode 50/125 OM3 LSZH Aqua
OM4 50/125	N167.TBUN02A	LANmark-OF Tight Buffer Universal 2x Multimode 50/125 OM4 LSZH Aqua
OM4 50/125	N167.TBUN04A	LANmark-OF Tight Buffer Universal 4x Multimode 50/125 OM4 LSZH Aqua
OM4 50/125	N167.TBUN06A	LANmark-OF Tight Buffer Universal 6x Multimode 50/125 OM4 LSZH Aqua
OM4 50/125	N167.TBUN08A	LANmark-OF Tight Buffer Universal 8x Multimode 50/125 OM4 LSZH Aqua
OM4 50/125	N167.TBUN12A	LANmark-OF Tight Buffer Universal 12x Multimode 50/125 OM4 LSZH Aqua
OM4 50/125	N167.TBUN24A	LANmark-OF Tight Buffer Universal 24x Multimode 50/125 OM4 LSZH Aqua
SM (G.652D)	N164.TBUN02Y	LANmark-OF Tight Buffer Universal 2x Singlemode 9/125 OS2 LSZH Yellow
SM (G.652D)	N164.TBUN04Y	LANmark-OF Tight Buffer Universal 4x Singlemode 9/125 OS2 LSZH Yellow
SM (G.652D)	N164.TBUN06Y	LANmark-OF Tight Buffer Universal 6x Singlemode 9/125 OS2 LSZH Yellow
SM (G.652D)	N164.TBUN08Y	LANmark-OF Tight Buffer Universal 8x Singlemode 9/125 OS2 LSZH Yellow
SM (G.652D)	N164.TBUN12Y	LANmark-OF Tight Buffer Universal 12x Singlemode 9/125 OS2 LSZH Yellow
SM (G.652D)	N164.TBUN24Y	LANmark-OF Tight Buffer Universal 24x Singlemode 9/125 OS2 LSZH Yellow



Mechanical resistance to impacts
10 impacts of 3 Nm



Flame retardant
IEC 60332-1



Fire retardant
IEC 60332-3



Ambient installation temperature, range
0 .. 40 °C



Operating temperature, range
-40 .. 70 °C



Storage temperature, range
-40 .. 70 °C



Gases toxicity
IEC 61034



Gases corrosivity
IEC 60754-1,
IEC 60754-2

LANmark-OF Micro-Bundle Extractable

- Micro-Bundle Indoor optical fibre cable
- Bundles can be extracted over 6m
- Cable for horizontal or vertical installation
- Designed for splicing with pigtails
- Available with modularity of 4, 6 or 12 fibres per bundle
- Available in SM, OM3, OM4

Description

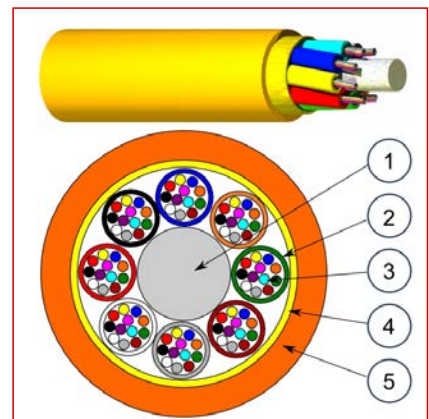
Description and Application

The new Micro-Bundle technology from Nexans allows to manufacture a flexible and small tube. This Micro-Bundle is the central part of the new "LANmark-OF Micro-Bundle Extractable" cable design. The Micro-Bundle can be extracted over 6m from the cable. The cables are available with a bundle modularity of 4, 6 or 12 fibres. The Micro-Bundle contains fibres with a fibre diameter of 250 µm. Termination of these fibres is done with splicing with pigtails.

The Micro-Bundles are arranged around a central strength element. Aramid yarns provide additional strength and make the cable installer friendly. The combination of the Micro-Bundle technology, the central strength element and aramid yarns result in a mechanical robust, but also small and flexible cable.

The small bending radius of the LANmark-OF Extractable Micro-Bundle makes the cable easy to arrange in patch panels, in cable trays and in ducts.

The LANmark-OF Extractable Micro-Bundle complies with the indoor fire requirements. Since there is no drip effect of the very limited amount of gel the cable is optimised for both horizontal and vertical installations.



LANmark-OF

Standards

International ISO/IEC 11801

Construction

Legend accompanying the cross section drawing:

1. Central strength element
2. Extractable bundle Micro-Bundle till 6 m
3. Optical fibre (250 µm)
4. Reinforced aramid yarns
5. Outer sheath in LSZH material



Ambient installation temperature, range
0 .. 40 °C



Operating temperature, range
-10 .. 60 °C



Storage temperature, range
-40 .. 60 °C



Flame retardant
IEC 60332-1



Fire retardant
IEC 60332-3

LANmark-OF Micro-Bundle Extractable

Characteristics

- Extractable bundle till 6 m
- Indoor cable for horizontal and vertical installations
- Flame retardant (IEC 60332-1)
- Fire retardant (IEC 60332-3)
- All dielectric design
- Designed for termination by splicing
- Aramid yarns for ease of handling and as strength element
- 4, 6 or 12 fibres per Micro-Bundle










Characteristics


Usage characteristics

Ambient installation temperature, range	0 .. 40 °C
Operating temperature, range	-10 .. 60 °C
Storage temperature, range	-40 .. 60 °C
Flame retardant	IEC 60332-1
Fire retardant	IEC 60332-3

Product List

 = Make to order,  = In stock

Nexans ref.	Name
 N165.MBEX144MOD12A	LANmark-OF Micro-Bundle Extractable mod 12 144x Multimode 50/125 OM3 LSZH Aqua
 N167.MBEX144MOD12A	LANmark-OF Micro-Bundle Extractable mod 12 144x Multimode 50/125 OM4 LSZH Aqua
 N164.MBEX144MOD12Y	LANmark-OF Micro-Bundle Extractable mod 12 144x Singlemode 9/125 OS2 LSZH Yellow
 N165.MBEX48MOD12A	LANmark-OF Micro-Bundle Extractable mod 12 48x Multimode 50/125 OM3 LSZH Aqua
 N167.MBEX48MOD12A	LANmark-OF Micro-Bundle Extractable mod 12 48x Multimode 50/125 OM4 LSZH Aqua
 N164.MBEX48MOD12Y	LANmark-OF Micro-Bundle Extractable mod 12 48x Singlemode 9/125 OS2 LSZH Yellow
 N165.MBEX96MOD12A	LANmark-OF Micro-Bundle Extractable mod 12 96x Multimode 50/125 OM3 LSZH Aqua
 N167.MBEX96MOD12A	LANmark-OF Micro-Bundle Extractable mod 12 96x Multimode 50/125 OM4 LSZH Aqua
 N164.MBEX96MOD12Y	LANmark-OF Micro-Bundle Extractable mod 12 96x Singlemode 9/125 OS2 LSZH Yellow

 = Make to order,  = In stock



Ambient installation temperature, range
0 .. 40 °C



Operating temperature, range
-10 .. 60 °C



Storage temperature, range
-40 .. 60 °C



Flame retardant
IEC 60332-1



Fire retardant
IEC 60332-3

LANmark-OF Micro-Bundle Indoor

- Micro-Bundle Indoor optical fibre cable
- Indoor cable for backbones and data centres
- Small, but mechanical strong cable
- Designed for splicing with pigtails
- 12-96 fibres and available in all fibre grades

Description

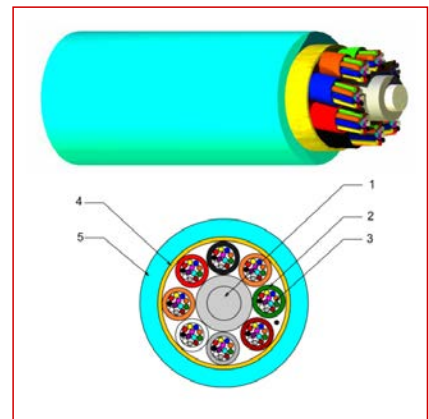
Description and Application

The new Micro-Bundle technology from Nexans allows to manufacture a flexible and small tube. This Micro-Bundle is the central part of the new “LANmark-OF Micro-Bundle Indoor” cable design. The Micro-Bundle contains 12 fibres with a fibre diameter of 250 μm . Termination of these fibres is done with splicing with pigtails.

Up to 8 Micro-bundles are arranged around a central strength element. Aramid yarns provide additional strength and make the cable installer friendly. The combination of the Micro-Bundle technology, the central strength element and aramid yarns result in a mechanical robust, but also small and flexible cable. This makes it a optimised cable for data centres and backbones

The small bending radius of the LANmark-OF Micro-Bundle Indoor makes the cable easy to arrange in patch panels, in cable trays and in ducts.

The LANmark-OF Micro-Bundle Indoor complies with the indoor fire requirements. Since there is no drip effect of the very limited amount of gel the cable is optimised for both horizontal and vertical installations.



LANmark-OF

Standards

International ISO/IEC 11801

Construction

Legend accompanying the cross section drawing:

1. Central strength element
2. Micro-Bundle with 12 fibres
3. Optical fibre (250 μm)
4. Reinforced aramid yarns
5. Outer sheath in LSZH material



Ambient installation temperature, range
0 .. 40 °C



Storage temperature, range
-20 .. 60 °C



Flame retardant
IEC 60332-1



Fire retardant
IEC 60332-3

LANmark-OF Micro-Bundle Indoor

Characteristics

- Micro-Bundle design for easy installation
- Indoor cable for horizontal and vertical installations
- Data centre cable
- Flame retardant (IEC 60332-1)
- Fire retardant (IEC 60332-3)
- All dielectric design
- Designed for termination by splicing
- Aramid yarns for ease of handling and as strength element
- 12 fibres per Micro-Bundle
- Available in 12, 24, 48 and 96 fibres
- Available in all fibre grades

Characteristics

Usage characteristics	
Ambient installation temperature, range	0 .. 40 °C
Storage temperature, range	-20 .. 60 °C
Flame retardant	IEC 60332-1
Fire retardant	IEC 60332-3

Mechanical and Dimensional Characteristics for Micro-Bundle Indoor

Nb optical fibres	Nom. outer diam. [mm]	Approx. weight [kg/km]	static bending rad. [mm]	Min. dynamic operating bending rad. [mm]
12	3.65	13	40	60.0
24	5.4	37	65	80.0
48	5.4	37	65	80.0
96	6.4	50	65	100.0

N-numbers for Micro-Bundle Indoor

Fiber optic type	Nexans ref.	Name
OM3 50/125	N165.MBIN12A	LANmark-OF Micro-Bundle Indoor 12x Multimode 50/125 OM3 LSZH Aqua
OM3 50/125	N165.MBIN24A	LANmark-OF Micro-Bundle Indoor 24x Multimode 50/125 OM3 LSZH Aqua
OM3 50/125	N165.MBIN48A	LANmark-OF Micro-Bundle Indoor 48x Multimode 50/125 OM3 LSZH Aqua
OM3 50/125	N165.MBIN96A	LANmark-OF Micro-Bundle Indoor 96x Multimode 50/125 OM3 LSZH Aqua
OM4 50/125	N167.MBIN12A	LANmark-OF Micro-Bundle Indoor 12x Multimode 50/125 OM4 LSZH Aqua
OM4 50/125	N167.MBIN24A	LANmark-OF Micro-Bundle Indoor 24x Multimode 50/125 OM4 LSZH Aqua
OM4 50/125	N167.MBIN48A	LANmark-OF Micro-Bundle Indoor 48x Multimode 50/125 OM4 LSZH Aqua
OM4 50/125	N167.MBIN96A	LANmark-OF Micro-Bundle Indoor 96x Multimode 50/125 OM4 LSZH Aqua
SM (G.652D)	N164.MBIN12Y	LANmark-OF Micro-Bundle Indoor 12x Singlemode 9/125 OS2 LSZH Yellow
SM (G.652D)	N164.MBIN24Y	LANmark-OF Micro-Bundle Indoor 24x Singlemode 9/125 OS2 LSZH Yellow
SM (G.652D)	N164.MBIN48Y	LANmark-OF Micro-Bundle Indoor 48x Singlemode 9/125 OS2 LSZH Yellow



Ambient installation temperature, range
0 .. 40 °C



Storage temperature, range
-20 .. 60 °C



Flame retardant
IEC 60332-1



Fire retardant
IEC 60332-3

LANmark-OF Micro-Bundle Indoor

Fiber optic type	Nexans ref.	Name
SM (G.652D)	N164.MBIN96Y	LANmark-OF Micro-Bundle Indoor 96x Singlemode 9/125 OS2 LSZH Yellow



Ambient installation temperature, range
0 .. 40 °C



Storage temperature, range
-20 .. 60 °C



Flame retardant
IEC 60332-1



Fire retardant
IEC 60332-3

LANmark-OF Micro-Bundle Universal (24F-96F)

- Micro-Bundle Universal optical fibre cable
- Indoor cable and outdoor installation in a duct
- Fully waterproof and rodent resistant
- Small, but mechanical strong cable
- Designed for splicing with pigtails
- 24-96 fibres and available in all fibre grades

Description

Description and Application

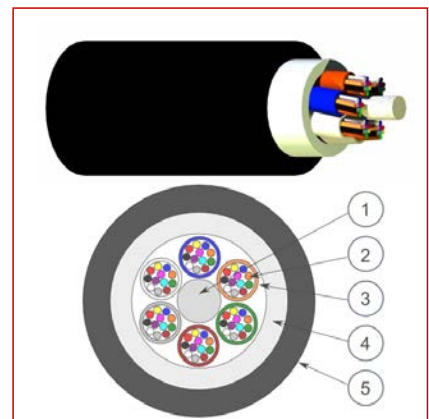
The new Micro-Bundle technology from Nexans allows to manufacture a flexible and small tube. This Micro-Bundle is the central part of the new "LANmark-OF Micro-Bundle Universal" cable design. Each Micro-Bundle contains 12 fibres with a fibre diameter of 250 μm . Termination of these fibres is done with splicing with pigtails.

Up to 8 Micro-Bundles are arranged around a central strength element. The combination of the Micro-Bundle technology, the central strength element and the glass yarns result in a mechanical robust, but also in a small and flexible cable.

The small bending radius of the LANmark-OF Micro-Bundle Universal makes the cable easy to arrange in patch panels, in cable trays and in ducts.

The watertight glass yarns and the very limited amount of gel inside the tube make the LANmark-OF Micro-Bundle Universal design watertight, rodent resistant and suitable for installation outdoor in a duct by pulling.

The LANmark-OF Micro-Bundle Universal complies with the indoor fire requirements. Since there is no drip effect of the very limited amount of gel the cable is optimised for both horizontal and vertical installations.



LANmark-OF

Standards

International ISO/IEC 11801

Construction

Legend accompanying the cross section drawing:

1. Central strength element
2. Optical fibre (250 μm)
3. Micro-Bundle with 12 fibres
4. Reinforced watertight glass yarns
5. Outer sheath in LSZH material with UV resistant additive

Characteristics

LANmark-OF Micro-Bundle Universal (24F-96F)

- Micro-Bundle design for easy installation
- Indoor cable for horizontal and vertical installations
- Flame retardant (IEC 60332-1)
- Fire retardant (IEC 60332-3)
- Outdoor cable for installation in a duct
- Waterproof structure, rodent resistant and UV-resistant
- All dielectric design
- Designed for termination by splicing
- 12 fibres per Micro-Bundle
- Available in 24, 48 and 96 fibres
- Available in all fibre grades

N-number for Micro-Bundle Universal (24F-72F)

Fiber optic type	Nexans ref.	Name
OM1 62.5/125	N160.MBUN24	LANmark-OF Micro-Bundle Universal 24x Multimode 62,5/125 OM1 LSZH Black
OM1 62.5/125	N160.MBUN48	LANmark-OF Micro-Bundle Universal 48x Multimode 62,5/125 OM1 LSZH Black
OM1 62.5/125	N160.MBUN72	LANmark-OF Micro-Bundle Universal 72x Multimode 62,5/125 OM1 LSZH Black
OM1 62.5/125	N160.MBUN96	LANmark-OF Micro-Bundle Universal 96x Multimode 62,5/125 OM1 LSZH Black
OM2 50/125	N162.MBUN24	LANmark-OF Micro-Bundle Universal 24x Multimode 50/125 OM2 LSZH Black
OM2 50/125	N162.MBUN48	LANmark-OF Micro-Bundle Universal 48x Multimode 50/125 OM2 LSZH Black
OM2 50/125	N162.MBUN72	LANmark-OF Micro-Bundle Universal 72x Multimode 50/125 OM2 LSZH Black
OM2 50/125	N162.MBUN96	LANmark-OF Micro-Bundle Universal 96x Multimode 50/125 OM2 LSZH Black
OM3 50/125	N165.MBUN24	LANmark-OF Micro-Bundle Universal 24x Multimode 50/125 OM3 LSZH Black
OM3 50/125	N165.MBUN48	LANmark-OF Micro-Bundle Universal 48x Multimode 50/125 OM3 LSZH Black
OM3 50/125	N165.MBUN72	LANmark-OF Micro-Bundle Universal 72x Multimode 50/125 OM3 LSZH Black
OM3 50/125	N165.MBUN96	LANmark-OF Micro-Bundle Universal 96x Multimode 50/125 OM3 LSZH Black
OM4 50/125	N167.MBUN24	LANmark-OF Micro-Bundle Universal 24x Multimode 50/125 OM4 LSZH Black
OM4 50/125	N167.MBUN48	LANmark-OF Micro-Bundle Universal 48x Multimode 50/125 OM4 LSZH Black
OM4 50/125	N167.MBUN72	LANmark-OF Micro-Bundle Universal 72x Multimode 50/125 OM4 LSZH Black
OM4 50/125	N167.MBUN96	LANmark-OF Micro-Bundle Universal 96x Multimode 50/125 OM4 LSZH Black
SM (G.652D)	N164.MBUN24	LANmark-OF Micro-Bundle Universal 24x Singlemode 9/125 OS2 LSZH Black
SM (G.652D)	N164.MBUN48	LANmark-OF Micro-Bundle Universal 48x Singlemode 9/125 OS2 LSZH Black
SM (G.652D)	N164.MBUN72	LANmark-OF Micro-Bundle Universal 72x Singlemode 9/125 OS2 LSZH Black
SM (G.652D)	N164.MBUN96	LANmark-OF Micro-Bundle Universal 96x Singlemode 9/125 OS2 LSZH Black

LANmark-OF Micro-Bundle Universal (4F-12F)

- Micro-Bundle Universal optical fibre cable
- Indoor cable and outdoor installation in a duct
- Fully waterproof and rodent retardant
- Designed for splicing with pigtails
- 4-12 fibres and available in all fibre grades

Description

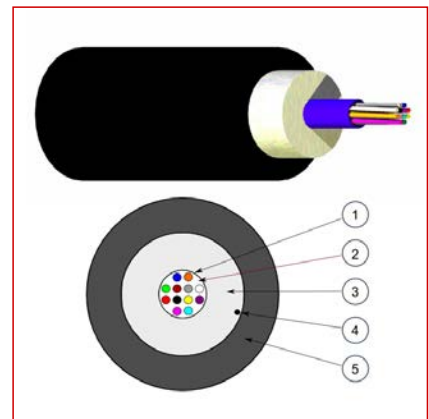
Description and Application

The new Micro-Bundle technology from Nexans allows to manufacture a very flexible and small tube that is the central part of the new "LANmark-OF Micro-Bundle Universal" cable design. This results in a small, flexible, but mechanical robust cable. The central tube contains up till 12 fibres with a fibre diameter of 250 µm. Termination of these fibres is done with splicing with pigtails.

The small bending radius of the Micro-Bundle makes the cable easy to arrange in patch panels and for installations in data centres and backbones.

The watertight glass yarns and the very limited amount of gel inside the tube makes this cable design watertight and suitable for installation outdoor in a duct by pulling.

The fire performance of the LANmark-OF Micro-Bundle Universal allows indoor installation as well. Since there is no drip effect of the very limited amount of gel the cable is optimised for both horizontal and vertical installations.



LANmark-OF

Standards

International ISO/IEC 11801

Construction

1. Central Micro-Bundle
2. Optical fibres (250 µm)
3. Reinforced watertight glass yarns
4. Ripcord
5. LSZH outer jacket with UV resistant additive

Characteristics

- Indoor cable for horizontal and vertical installation
- Outdoor cable for installation in a duct
- Designed for termination by splicing
- Central Micro-Bundle design for easy installation
- All dielectric
- Waterproof structure, Rodent retardant and UV-resistant
- Flame retardant (IEC 60332-1) and fire retardant (IEC 60332-3)
- Available in all fibre grades and from 4-12 fibres



Mechanical resistance to impacts
1 impact of 3 N.m



Flame retardant
IEC 60332-1



Fire retardant
IEC 60332-3



Ambient installation temperature, range
0 .. 40 °C



Operating temperature, range
-20 .. 60 °C



Storage temperature, range
-40 .. 60 °C



Minimum dynamic operating bending radius
60.0 mm



Minimum static operating bending radius
60 mm

LANmark-OF Micro-Bundle Universal (4F-12F)

Characteristics

Dimensional characteristics	
Approximate weight	42 kg/km
Mechanical characteristics	
Mechanical resistance to impacts	1 impact of 3 N.m
Crush resistance (IEC 60794-1-E3)	200 N/cm
Maximum operating pulling force	700 N
Maximum pulling force (IEC 60794-1-2-E1)	2200 N
Usage characteristics	
Flame retardant	IEC 60332-1
Fire retardant	IEC 60332-3
Ambient installation temperature, range	0 .. 40 °C
Operating temperature, range	-20 .. 60 °C
Storage temperature, range	-40 .. 60 °C
Minimum dynamic operating bending radius	60.0 mm
Minimum static operating bending radius	60 mm

N-numbers for Micro-Bundle Universal

Fiber optic type	Nexans ref.	Name
OM1 62.5/125	N160.MBUN04	LANmark-OF Micro-Bundle Universal 4x Multimode 62,5/125 OM1 LSZH Black
OM1 62.5/125	N160.MBUN06	LANmark-OF Micro-Bundle Universal 6x Multimode 62,5/125 OM1 LSZH Black
OM1 62.5/125	N160.MBUN08	LANmark-OF Micro-Bundle Universal 8x Multimode 62,5/125 OM1 LSZH Black
OM1 62.5/125	N160.MBUN12	LANmark-OF Micro-Bundle Universal 12x Multimode 62,5/125 OM1 LSZH Black
OM2 50/125	N162.MBUN04	LANmark-OF Micro-Bundle Universal 4x Multimode 50/125 OM2 LSZH Black
OM2 50/125	N162.MBUN06	LANmark-OF Micro-Bundle Universal 6x Multimode 50/125 OM2 LSZH Black
OM2 50/125	N162.MBUN08	LANmark-OF Micro-Bundle Universal 8x Multimode 50/125 OM2 LSZH Black
OM2 50/125	N162.MBUN12	LANmark-OF Micro-Bundle Universal 12x Multimode 50/125 OM2 LSZH Black
OM3 50/125	N165.MBUN04	LANmark-OF Micro-Bundle Universal 4x Multimode 50/125 OM3 LSZH Black
OM3 50/125	N165.MBUN06	LANmark-OF Micro-Bundle Universal 6x Multimode 50/125 OM3 LSZH Black
OM3 50/125	N165.MBUN08	LANmark-OF Micro-Bundle Universal 8x Multimode 50/125 OM3 LSZH Black
OM3 50/125	N165.MBUN12	LANmark-OF Micro-Bundle Universal 12x Multimode 50/125 OM3 LSZH Black
OM4 50/125	N167.MBUN04	LANmark-OF Micro-Bundle Universal 4x Multimode 50/125 OM4 LSZH Black
OM4 50/125	N167.MBUN06	LANmark-OF Micro-Bundle Universal 6x Multimode 50/125 OM4 LSZH Black
OM4 50/125	N167.MBUN08	LANmark-OF Micro-Bundle Universal 8x Multimode 50/125 OM4 LSZH Black
OM4 50/125	N167.MBUN12	LANmark-OF Micro-Bundle Universal 12x Multimode 50/125 OM4 LSZH Black
SM (G.652D)	N164.MBUN04	LANmark-OF Micro-Bundle Universal 4x Singlemode 9/125 OS2 LSZH Black
SM (G.652D)	N164.MBUN06	LANmark-OF Micro-Bundle Universal 6x Singlemode 9/125 OS2 LSZH Black
SM (G.652D)	N164.MBUN08	LANmark-OF Micro-Bundle Universal 8x Singlemode 9/125 OS2 LSZH Black
SM (G.652D)	N164.MBUN12	LANmark-OF Micro-Bundle Universal 12x Singlemode 9/125 OS2 LSZH Black



Mechanical resistance to impacts
1 impact of 3 N.m



Flame retardant
IEC 60332-1



Fire retardant
IEC 60332-3



Ambient installation temperature, range
0 .. 40 °C



Operating temperature, range
-20 .. 60 °C



Storage temperature, range
-40 .. 60 °C



Minimum dynamic operating bending radius
60.0 mm



Minimum static operating bending radius
60 mm

LANmark-OF Micro-Bundle Outdoor

- Micro-Bundle Outdoor optical fibre cable
- Outdoor cable for direct burial and outdoor installation in a duct
- Fully waterproof
- Rodent retardant
- Designed for splicing with pigtails
- 12-144 fibres

Description

Description and Application

The new Micro-Bundle technology from Nexans allows to manufacture a very flexible and small tube. This Micro-Bundle is the central part of the new "Micro-Bundle Outdoor" cable design. This cable is suitable for outdoor installation in a duct or for direct burial.

The Micro-Bundle contains up to 12 fibres with a fibre diameter of 250 µm. Termination of these fibres is done with splicing with pigtails. The small bending radius of the Micro-Bundle makes the cable easy to arrange in patch panels.

The Micro-Bundles are surrounded by a central tube for additional protection and improved resistance against impacts and compression.

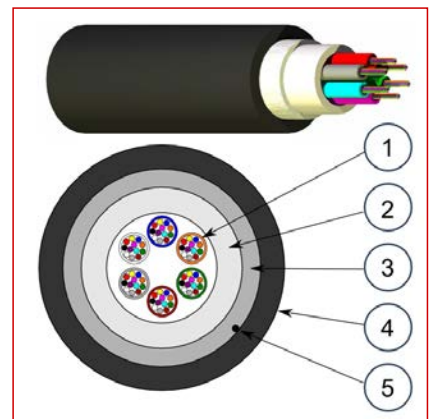
The watertight glass yarns and the very limited amount of gel inside the tube makes this cable design watertight.

Construction

1. Micro-Bundle with 12 fibres
2. Central Tube
3. Reinforced watertight glass yarns
4. High Density poly-ethylene outer jacket
5. Ripcord

Characteristics

- Outdoor cable for direct buried installation
- Outdoor cable for installation in a duct by pulling
- Designed for termination by splicing
- Micro-Bundle design for easy installation
- All dielectric
- Waterproof structure, rodent retardant and UV-resistant
- Available in all fibre grades
- 12 fibres per Micro-Bundle



LANmark-OF

Standards

International ISO/IEC 11801

LANmark-OF Micro-Bundle Outdoor

N-Numbers for Micro-Bundle Outdoor

Fiber optic type	Nexans ref.	Name
SM (G.652D)	N164.MBOU12B	LANmark-OF Micro-Bundle Outdoor 12x Singlemode 9/125 OS2 PE Black
SM (G.652D)	N164.MBOU144B	LANmark-OF Micro-Bundle Outdoor 144x Singlemode 9/125 OS2 PE Black
SM (G.652D)	N164.MBOU24B	LANmark-OF Micro-Bundle Outdoor 24x Singlemode 9/125 OS2 PE Black
SM (G.652D)	N164.MBOU48B	LANmark-OF Micro-Bundle Outdoor 48x Singlemode 9/125 OS2 PE Black
SM (G.652D)	N164.MBOU72B	LANmark-OF Micro-Bundle Outdoor 72x Singlemode 9/125 OS2 PE Black
SM (G.652D)	N164.MBOU96B	LANmark-OF Micro-Bundle Outdoor 96x Singlemode 9/125 OS2 PE Black

LANmark-OF UD PE

- UD optical fibre cables
- Suitable for outdoor in ducts or direct burial
- Full dielectric armour
- Available in all fibre grades and till 24 fibres
- Rodent resistance

Description

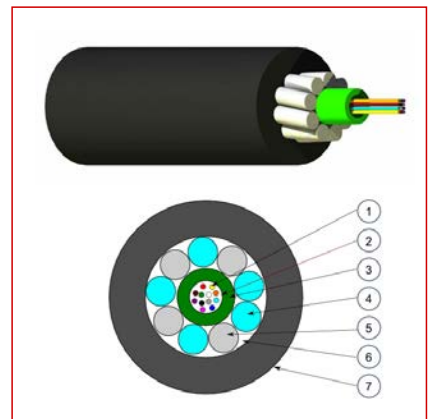
Description and Application

The LANmark-OF UD PE cable is designed as a campus cable. It can be pulled in a duct outside or can be direct buried. Its full dielectric armouring does not provide an electrical path and hence the cable can be used to connect 2 buildings.

The central loose tube is surrounded by robust strength elements: Fibre Reinforced Plastic (FRP) elements. These FRP provide the cable with a high rodent resistant and a high resistant against impacts and compression. There are 4 x FRP and 5 x fillers for fibre counts 4-12. For 14-24 fibres there are 5 X FRP and 5 X fillers.

The loose tube design has a capacity of up to 24 fibres. Diameter of the fibres is 250 um. Termination of these fibres is done with splicing of pigtails.

The cable is watertight due to the gel in the loose tube and the watertight glass yarns.



LANmark-OF

Standards

International ISO/IEC 11801

Construction

Legend accompanying the cross section drawing:

1. Optical fibres (250 um)
2. Gel
3. Loose tube
4. Fillers
5. Fibre Reinforced Plastic strength elements
6. Reinforced watertight glass yarns
7. PE outer jacket with UV resistant additive

Characteristics



Ambient installation temperature, range
0 .. 40 °C



Operating temperature, range
-30 .. 60 °C



Storage temperature, range
-40 .. 70 °C

LANmark-OF UD PE

- Outdoor cable for installation in a duct or direct burial
- Designed for termination by splicing
- Central loose tube design
- All dielectric design with FRP reinforcement and glass yarns
- Waterproof structure, rodent resistant and UV-resistant
- Available in all fibre grades
- Available from 4-24 fibres
- Excellent friction properties

Characteristics

Usage characteristics

Ambient installation temperature, range	0 .. 40 °C
Operating temperature, range	-30 .. 60 °C
Storage temperature, range	-40 .. 70 °C

Mechanical and Dimensional Characteristics for LANmark-OF UD PE

Nb optical fibres	Nom. outer diam. [mm]	Approx. weight [kg/km]	Min. dynamic operating bending rad. [mm]	static bending rad. [mm]	Crush resistance (IEC 60794-1-E3) [N/cm]	Mechanical resistance to impacts	Maximum pulling force (IEC 60794-1-2-E1) [N]	Maximum operating pulling force [N]
4	8.1	50	205.0	160	300	100 impacts of 3 N.m	1150	560
6	8.1	50	205.0	160	300	100 impacts of 3 N.m	1150	560
8	8.1	50	205.0	160	300	100 impacts of 3 N.m	1150	560
12	8.1	50	205.0	160	300	100 impacts of 3 N.m	1150	560
24	9.1	73	225.0	180	400	100 impacts of 5 N.m	1450	700

N-numbers for LANmark-OF UD PE

Nexans ref.	Name
N160.681	LANmark-OF UD 4x Multimode 62,5/125 OM1 PE Black
N160.682	LANmark-OF UD 6x Multimode 62,5/125 OM1 PE Black
N160.683	LANmark-OF UD 8x Multimode 62,5/125 OM1 PE Black
N160.685	LANmark-OF UD 12x Multimode 62,5/125 OM1 PE Black
N160.691	LANmark-OF UD 24x Multimode 62,5/125 OM1 PE Black
N162.681	LANmark-OF UD 4x Multimode 50/125 OM2 PE Black
N162.682	LANmark-OF UD 6x Multimode 50/125 OM2 PE Black
N162.683	LANmark-OF UD 8x Multimode 50/125 OM2 PE Black



Ambient installation temperature, range
0 .. 40 °C



Operating temperature, range
-30 .. 60 °C



Storage temperature, range
-40 .. 70 °C

LANmark-OF UD PE

Nexans ref.	Name
N162.685	LANmark-OF UD 12x Multimode 50/125 OM2 PE Black
N162.691	LANmark-OF UD 24x Multimode 50/125 OM2 PE Black
N164.681	LANmark-OF UD 4x Singlemode 9/125 OS2 PE Black
N164.682	LANmark-OF UD 6x Singlemode 9/125 OS2 PE Black
N164.683	LANmark-OF UD 8x Singlemode 9/125 OS2 PE Black
N164.685	LANmark-OF UD 12x Singlemode 9/125 OS2 PE Black
N164.691	LANmark-OF UD 24x Singlemode 9/125 OS2 PE Black
N165.681	LANmark-OF UD 4x Multimode 50/125 OM3 PE Black
N165.682	LANmark-OF UD 6x Multimode 50/125 OM3 PE Black
N165.683	LANmark-OF UD 8x Multimode 50/125 OM3 PE Black
N165.685	LANmark-OF UD 12x Multimode 50/125 OM3 PE Black
N165.691	LANmark-OF UD 24x Multimode 50/125 OM3 PE Black
N167.681	LANmark-OF UD 4x Multimode 50/125 OM4 PE Black
N167.682	LANmark-OF UD 6x Multimode 50/125 OM4 PE Black
N167.683	LANmark-OF UD 8x Multimode 50/125 OM4 PE Black
N167.685	LANmark-OF UD 12x Multimode 50/125 OM4 PE Black
N167.691	LANmark-OF UD 24x Multimode 50/125 OM4 PE Black



Ambient installation temperature, range
0 .. 40 °C



Operating temperature, range
-30 .. 60 °C



Storage temperature, range
-40 .. 70 °C

LANmark-OF MC PE

- Multitube outdoor cable for direct burial
- Corrugated steel tape armour
- Available singlemode
- Provides full rodent protection

Description

Description and Application

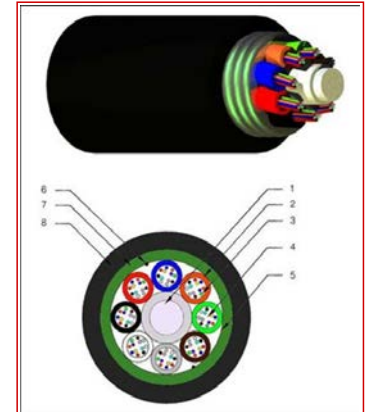
The construction is suitable for use outdoor for direct burial. It consists of a multitube structure protected by corrugated steel tape armouring. This provides excellent rodent protection and high crush resistance. The cable has a HDPE outer jacket.

The multi tube design has a capacity of up to 144 fibres. Diameter of the fibres is 250 um. Termination of these fibres is done with splicing of pigtailed. The cable is watertight due to the gel in the loose tube and the water swellable yarns.

Construction

Legend accompanying the cross section drawing:

1. Central strength element
2. Loose Tube
3. 250 um optical fibers
4. Gel
5. Water swellable yarns
6. Ripcords
7. Corrugated steel armour
8. PE outer jacket



LANmark-OF

Standards

International ISO/IEC 11801

Characteristics

- Outdoor cable for direct burial
- Designed for termination by splicing
- Multitube cable around central strength element
- Corrugated steel protection
- Waterproof structure
- Excellent rodent protection
- PE outer sheath
- High crush resistance
- Available in singlemode
- Available in 24-144 fibres

Characteristics

Construction characteristics

Fiber optic type

SM (G.652D)

LANmark-OF MC PE

Product List

☞=Make to order, ☐=In stock

Nexans ref.	Name	Number of optical fibres
☞ N164.MCPE144B	LANmark-OF MC 144x Singlemode 9/125 OS2 PE Black	144
☞ N164.MCPE24B	LANmark-OF MC 24x Singlemode 9/125 OS2 PE Black	24
☞ N164.MCPE48B	LANmark-OF MC 48x Singlemode 9/125 OS2 PE Black	48
☞ N164.MCPE72B	LANmark-OF MC 72x Singlemode 9/125 OS2 PE Black	72
☞ N164.MCPE96B	LANmark-OF MC 96x Singlemode 9/125 OS2 PE Black	96

☞ = Make to order, ☐ = In stock

- Multitube outdoor cable for direct burial
- Dielectric protection with flat fibre reinforced plastic
- Available in singlemode till 96F
- Provides full rodent protection and high crush resistance
- Inner and outer jacket in PE

Contact

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

LANmark-OF MC PE

Description

Description and Application

The construction is suitable for use outdoor for direct burial.

It consists of a multitube structure protected by full dielectric flat fibre reinforced plastic. This provides excellent rodent protection and high crush resistance. The cable has an inner and outer HDPE jacket .

The multi tube design has a capacity of up to 96 fibres. Diameter of the fibres is 250 um. Termination of these fibres is done with splicing of pigtailed.

The cable is watertight due to the gel in the loose tube and the watertight yarns.



Construction

Legend accompanying the cross section drawing:

1. Tubes with 250 um fibres
2. Central FRP strength element
3. Waterblocking yarns
4. Inner sheath of PE
5. Reinforcing flat FRP
6. Outer sheath of PE

LANmark-OF

Standards

International ISO/IEC 11801

Features

- Outdoor cable for direct burial
- Designed for termination by splicing
- Multitube cable around central strength element
- Dielectric armouring with flat fibre reinforced plastic (FRP)
- Waterproof structure
- Excellent rodent resistant
- PE outer sheath
- High crush resistance
- Available in singlemode
- Available in 24-48-72-96 fibres

LANmark-OF MC PE

Characteristics

Construction characteristics	
Fiber optic type	SM (G.652D)
Dimensional characteristics	
Approximate weight	240 kg/km
Nominal outer diameter	15.9 mm
Mechanical characteristics	
Mechanical resistance to impacts	100 impacts of 5 N.m
Maximum operating pulling force	6000 N
Maximum pulling force (IEC 60794-1-2-E1)	12000 N
Crush resistance (IEC 60794-1-E3)	600 N/cm
Usage characteristics	
Minimum dynamic operating bending radius	360.0 mm
Minimum static operating bending radius	270 mm
Ambient installation temperature, range	0 .. 40 °C
Storage temperature, range	-40 .. 80 °C
Operating temperature, range	-30 .. 70 °C

Product List

Nexans ref.	Name	Number of optical fibres
☎ N164.MDPEPE24B	LANmark-OF MD 24x Singlemode 9/125 OS2 PE/PE Black	24
☎ N164.MDPEPE48B	LANmark-OF MD 48x Singlemode 9/125 OS2 PE/PE Black	48
☎ N164.MDPEPE72B	LANmark-OF MD 72x Singlemode 9/125 OS2 PE/PE Black	72
☎ N164.MDPEPE96B	LANmark-OF MD 96x Singlemode 9/125 OS2 PE/PE Black	96

☎ = Make to order, 📦 = In stock

LANmark-OF UC PE

UC optical fibre cables

- Outdoor in ducts or direct burial
- Corrugated steel tape armour
- Available in all fibres grades
- Provides full rodent protection

Description

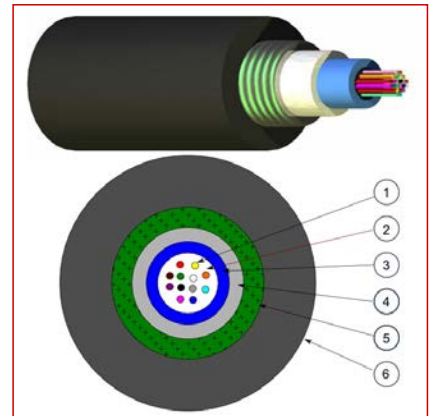
Description and Application

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. It is surrounded by glass yarns. The cable has a HDPE outer jacket. The loose tube design has a capacity of up to 24 fibres. Diameter of the fibres is 250 μ m. Termination of these fibres is done with splicing of pigtailed. The cable is watertight due to the gel in the loose tube and the watertight glass yarns.

Construction

Legend accompanying the cross section drawing:

1. Optical fibres (250 μ m)
2. Gel
3. Loose tube
4. Reinforced watertight glass yarns
5. Corrugated steel tape armour
6. PE outer jacket with UV resistant additive



LANmark-OF

Standards

International ISO/IEC 11801

Characteristics

- Outdoor cable for installation in a duct or direct burial
- Designed for termination by splicing
- Central loose tube design
- Corrugated steel protection
- Waterproof structure, rodent resistant and UV-resistant
- Available in all fibre grades
- Available from 4-24 fibres



Mechanical resistance to impacts
 100 impacts of 3 Nm



Minimum dynamic operating bending radius
 200.0 mm



Minimum static operating bending radius
 140 mm



Ambient installation temperature, range
 0 .. 40 °C



Storage temperature, range
 -30 .. 60 °C



Operating temperature, range
 -20 .. 60 °C

LANmark-OF UC PE

Characteristics

Dimensional characteristics	
Approximate weight	100 kg/km
Nominal outer diameter	9.5 mm
Mechanical characteristics	
Mechanical resistance to impacts	100 impacts of 3 N.m
Maximum operating pulling force	450 N
Maximum pulling force (IEC 60794-1-2-E1)	1500 N
Crush resistance (IEC 60794-1-E3)	300 N/cm
Usage characteristics	
Minimum dynamic operating bending radius	200.0 mm
Minimum static operating bending radius	140 mm
Ambient installation temperature, range	0 .. 40 °C
Storage temperature, range	-30 .. 60 °C
Operating temperature, range	-20 .. 60 °C

N-numbers for LANmark-OF UC PE

Fiber optic type	Nexans ref.	Name
OM1 62.5/125	N160.181	LANmark-OF UC 4x Multimode 62,5/125 OM1 PE Black
OM1 62.5/125	N160.182	LANmark-OF UC 6x Multimode 62,5/125 OM1 PE Black
OM1 62.5/125	N160.183	LANmark-OF UC 8x Multimode 62,5/125 OM1 PE Black
OM1 62.5/125	N160.185	LANmark-OF UC 12x Multimode 62,5/125 OM1 PE Black
OM1 62.5/125	N160.191	LANmark-OF UC 24x Multimode 62,5/125 OM1 PE Black
OM2 50/125	N162.181	LANmark-OF UC 4x Multimode 50/125 OM2 PE Black
OM2 50/125	N162.182	LANmark-OF UC 6x Multimode 50/125 OM2 PE Black
OM2 50/125	N162.183	LANmark-OF UC 8x Multimode 50/125 OM2 PE Black
OM2 50/125	N162.185	LANmark-OF UC 12x Multimode 50/125 OM2 PE Black
OM2 50/125	N162.191	LANmark-OF UC 24x Multimode 50/125 OM2 PE Black
OM3 50/125	N165.181	LANmark-OF UC 4x Multimode 50/125 OM3 PE Black
OM3 50/125	N165.182	LANmark-OF UC 6x Multimode 50/125 OM3 PE Black
OM3 50/125	N165.183	LANmark-OF UC 8x Multimode 50/125 OM3 PE Black
OM3 50/125	N165.185	LANmark-OF UC 12x Multimode 50/125 OM3 PE Black
OM3 50/125	N165.191	LANmark-OF UC 24x Multimode 50/125 OM3 PE Black
OM4 50/125	N167.181	LANmark-OF UC 4x Multimode 50/125 OM4 PE Black
OM4 50/125	N167.182	LANmark-OF UC 6x Multimode 50/125 OM4 PE Black
OM4 50/125	N167.183	LANmark-OF UC 8x Multimode 50/125 OM4 PE Black
OM4 50/125	N167.185	LANmark-OF UC 12x Multimode 50/125 OM4 PE Black
OM4 50/125	N167.191	LANmark-OF UC 24x Multimode 50/125 OM4 PE Black
SM (G.652D)	N164.181	LANmark-OF UC 4x Singlemode 9/125 OS2 PE Black
SM (G.652D)	N164.182	LANmark-OF UC 6x Singlemode 9/125 OS2 PE Black
SM (G.652D)	N164.183	LANmark-OF UC 8x Singlemode 9/125 OS2 PE Black
SM (G.652D)	N164.185	LANmark-OF UC 12x Singlemode 9/125 OS2 PE Black



Mechanical resistance to impacts
100 impacts of 3 N.m



Minimum dynamic operating bending radius
200.0 mm



Minimum static operating bending radius
140 mm



Ambient installation temperature, range
0 .. 40 °C



Storage temperature, range
-30 .. 60 °C



Operating temperature, range
-20 .. 60 °C

LANmark-OF UC PE

Fiber optic type	Nexans ref.	Name
SM (G.652D)	N164.191	LANmark-OF UC 24x Singlemode 9/125 OS2 PE Black



Mechanical resistance to impacts
 100 impacts of 3 Nm



Minimum dynamic operating bending radius
 200.0 mm



Minimum static operating bending radius
 140 mm



Ambient installation temperature, range
 0 .. 40 °C



Storage temperature, range
 -30 .. 60 °C



Operating temperature, range
 -20 .. 60 °C

LANmark-OF UG/MG PE

- Unitube or multitube outdoor cable for installation in a duct
- Glass yarns protection and PE jacket
- Installation by pulling and blowing
- Watertight and rodent retardant

Description

Description and Application

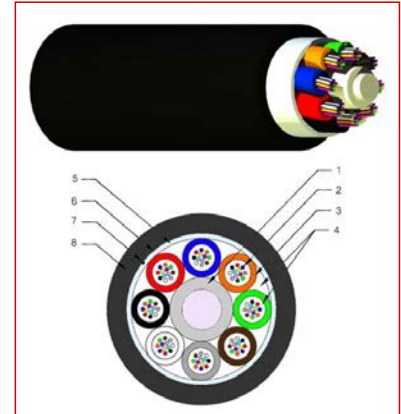
The cable consists of an unitube or multitube loose tube structure surrounded by watertight glass yarns and a PEHD jacket.

The cable is watertight due to the gel in the loose tube and the watertight yarns. The glass yarns also provide rodent protection.

The reinforced cable can be installed outdoor in a duct by pulling or by blowing. The PEHD jacket has excellent friction properties for this installation type.

The UG-type has one unitube with 12 or 24 fibres. The MG-range contains multiple loose tubes. Each loose tube has 12 fibres. The maximum fibre capacity is 144 fibres for the MG-family.

Diameter of the fibres is 250 µm. Termination of these fibres is done with splicing of pigtailed.

**LANmark-OF**

Standards

International ISO/IEC 11801

Construction

Legend accompanying the cross section drawing:

1. Central FRP strength element
2. 250 µm fibres
3. Loose tubes
4. Gel
5. Binding element
6. Waterblocking yarns
7. Rip cord
8. Outer sheath of PE

Features

LANmark-OF UG/MG PE

- Outdoor cable for installation in a duct by pulling or blowing
- Designed for termination by splicing
- Unitube or multitube cable around central strength element
- Full dielectric design
- Waterproof structure
- Rodent retardant
- Wide temperature range

Characteristics

Construction characteristics

Fiber optic type SM (G.652D)

Product List

☎=Make to order, 📦=In stock

Nexans ref.	Name	Number of optical fibres
☎ N164.MGPE144B	LANmark-OF MG 144x Singlemode 9/125 OS2 PE Black	144
☎ N164.MGPE24B	LANmark-OF MG 24x Singlemode 9/125 OS2 PE Black	24
☎ N164.MGPE48B	LANmark-OF MG 48x Singlemode 9/125 OS2 PE Black	48
☎ N164.MGPE72B	LANmark-OF MG 72x Singlemode 9/125 OS2 PE Black	72
☎ N164.MGPE96B	LANmark-OF MG 96x Singlemode 9/125 OS2 PE Black	96
☎ N164.UGPE12B	LANmark-OF UG 12x Singlemode 9/125 OS2 PE Black	12
☎ N164.UGPE24B	LANmark-OF UG 24x Singlemode 9/125 OS2 PE Black	24

☎ = Make to order, 📦 = In stock

LANmark-OF UC LSZH

UC optical fibre cables

- Indoor/Outdoor cable
- Corrugated steel tape armour
- Gel filled tube
- All fibre grades
- Provides full rodent protection
- Low Smoke Zero Halogene (LSZH)

Description

Description and Application

The construction is suitable for indoor/outdoor use. It consists of a corrugated steel tape armouring providing full rodent protection. It is surrounded by glass yarns. The cable has a LSZH outer jacket.

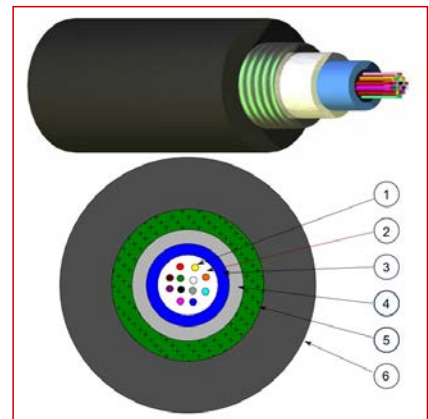
The loose tube design has a capacity of up to 24 fibres. Diameter of the fibres is 250 μm . Termination of these fibres is done with splicing of pigtailed.

The cable is watertight due to the gel in the loose tube and the watertight glass yarns.

Construction

Legend accompanying the cross section drawing:

1. Optical fibres (250 μm)
2. Gel
3. Loose tube
4. Reinforced watertight glass yarns
5. Corrugated steel tape armour
6. LSZH outer jacket with UV resistant additive



LANmark-OF

Standards

International ISO/IEC 11801

Characteristics

- Indoor/Outdoor cable
- Flame retardant (IEC 60332-1 and NFC 32070 C2) and fire retardant (IEC 60332-3 and NFC 32070 C1)
- Designed for termination by splicing
- Central loose tube design
- Corrugated steel protection
- Waterproof structure, rodent resistant and UV-resistant
- Available in all fibre grades
- Available from 4-24 fibres



Mechanical resistance to impacts
100 impacts of 3 N.m



Minimum dynamic operating bending radius
210.0 mm



Minimum static operating bending radius
150 mm



Ambient installation temperature, range
0 .. 40 °C



Flame retardant IEC
60332-1



Fire retardant IEC
60332-3



Storage temperature, range
-30 .. 60 °C



Operating temperature, range
-20 .. 60 °C

LANmark-OF UC LSZH

Characteristics

Dimensional characteristics	
Approximate weight	129 kg/km
Nominal outer diameter	9.5 mm
Mechanical characteristics	
Maximum pulling force (IEC 60794-1-2-E1)	1500 N
Maximum operating pulling force	450 N
Mechanical resistance to impacts	100 impacts of 3 N.m
Crush resistance (IEC 60794-1-E3)	300 N/cm
Usage characteristics	
Minimum dynamic operating bending radius	210.0 mm
Minimum static operating bending radius	150 mm
Ambient installation temperature, range	0 .. 40 °C
Flame retardant	IEC 60332-1
Fire retardant	IEC 60332-3
Storage temperature, range	-30 .. 60 °C
Operating temperature, range	-20 .. 60 °C

N-numbers for LANmark-OF UC LSZH

Fiber optic type	Nexans ref.	Name
OM1 62.5/125	N160.471	LANmark-OF UC 4x Multimode 62,5/125 OM1 LSZH Black
OM1 62.5/125	N160.472	LANmark-OF UC 6x Multimode 62,5/125 OM1 LSZH Black
OM1 62.5/125	N160.473	LANmark-OF UC 8x Multimode 62,5/125 OM1 LSZH Black
OM1 62.5/125	N160.475	LANmark-OF UC 12x Multimode 62,5/125 OM1 LSZH Black
OM1 62.5/125	N160.481	LANmark-OF UC 24x Multimode 62,5/125 OM1 LSZH Black
OM2 50/125	N162.471	LANmark-OF UC 4x Multimode 50/125 OM2 LSZH Black
OM2 50/125	N162.472	LANmark-OF UC 6x Multimode 50/125 OM2 LSZH Black
OM2 50/125	N162.473	LANmark-OF UC 8x Multimode 50/125 OM2 LSZH Black
OM2 50/125	N162.475	LANmark-OF UC 12x Multimode 50/125 OM2 LSZH Black
OM2 50/125	N162.481	LANmark-OF UC 24x Multimode 50/125 OM2 LSZH Black
OM3 50/125	N165.471	LANmark-OF UC 4x Multimode 50/125 OM3 LSZH Black
OM3 50/125	N165.472	LANmark-OF UC 6x Multimode 50/125 OM3 LSZH Black
OM3 50/125	N165.473	LANmark-OF UC 8x Multimode 50/125 OM3 LSZH Black
OM3 50/125	N165.475	LANmark-OF UC 12x Multimode 50/125 OM3 LSZH Black
OM3 50/125	N165.481	LANmark-OF UC 24x Multimode 50/125 OM3 LSZH Black
OM4 50/125	N167.471	LANmark-OF UC 4x Multimode 50/125 OM4 LSZH Black
OM4 50/125	N167.472	LANmark-OF UC 6x Multimode 50/125 OM4 LSZH Black
OM4 50/125	N167.473	LANmark-OF UC 8x Multimode 50/125 OM4 LSZH Black
OM4 50/125	N167.475	LANmark-OF UC 12x Multimode 50/125 OM4 LSZH Black
OM4 50/125	N167.481	LANmark-OF UC 24x Multimode 50/125 OM4 LSZH Black
SM (G.652D)	N164.471	LANmark-OF UC 4x Singlemode 9/125 OS2 LSZH Black
SM (G.652D)	N164.472	LANmark-OF UC 6x Singlemode 9/125 OS2 LSZH Black



Mechanical resistance to impacts
100 impacts of 3 N.m



Minimum dynamic operating bending radius
210.0 mm



Minimum static operating bending radius
150 mm



Ambient installation temperature, range
0 .. 40 °C



Flame retardant IEC
60332-1



Fire retardant IEC
60332-3



Storage temperature, range
-30 .. 60 °C



Operating temperature, range
-20 .. 60 °C

LANmark-OF UC LSZH

Fiber optic type	Nexans ref.	Name
SM (G.652D)	N164.473	LANmark-OF UC 8x Singlemode 9/125 OS2 LSZH Black
SM (G.652D)	N164.475	LANmark-OF UC 12x Singlemode 9/125 OS2 LSZH Black
SM (G.652D)	N164.481	LANmark-OF UC 24x Singlemode 9/125 OS2 LSZH Black



Mechanical resistance to impacts
100 impacts of 3 Nm



Minimum dynamic operating bending radius
210.0 mm



Minimum static operating bending radius
150 mm



Ambient installation temperature, range
0 .. 40 °C



Flame retardant IEC
60332-1



Fire retardant IEC
60332-3



Storage temperature, range
-30 .. 60 °C



Operating temperature, range
-20 .. 60 °C

Cables - LANmark-OF ZC (2.0 mm) LSZH

ZipCord optical fibre cables

- Designed for direct termination for especially 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 µm tight buffered fibre
2. Aramid yarns reinforcement
3. Flame retardant halogen free outer sheath



LANmark-OF

Standards

International ISO/IEC 11801



Ambient installation temperature, range
0 .. 40 °C



Storage temperature, range
-30 .. 70 °C



Operating temperature, range
-10 .. 70 °C

Cables - LANmark-OF ZC (2.0 mm) 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 mm
Width	4 mm
Approximate weight	12 kg/km
Mechanical characteristics	
Crush resistance (IEC 60794-1-E3)	100 N/cm
Usage characteristics	
Installation type	Indoor
Ambient installation temperature, range	0 .. 40 °C
Storage temperature, range	-30 .. 70 °C
Operating temperature, range	-10 .. 70 °C

Product List

Nexans ref.	Name	Fiber optic type
 N165.101A	LANmark-OF ZC (2,0mm) 2x Multimode 50/125 OM3 LSZH Aqua	OM3 50/125
 N167.101A	LANmark-OF ZC (2,0mm) 2x Multimode 50/125 OM4 LSZH Aqua	OM4 50/125
 N164.101Y	LANmark-OF ZC (2,0mm) 2x Singlemode 9/125 OS2 LSZH Yellow	SM (G.652D)

☎ = Make to order,  = In stock


 Ambient installation temperature, range
 0 .. 40 °C

 Storage temperature, range
 -30 .. 70 °C

 Operating temperature, range
 -10 .. 70 °C

Cables - LANmark-OF ZC (2.8mm) 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 µm 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



Storage temperature, range
-30 .. 70 °C



Operating temperature, range
-10 .. 70 °C

Cables - LANmark-OF ZC (2.8mm) 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-E3)	300 N/cm
Usage characteristics	
Installation type	Indoor
Flame retardant	IEC 60332 Part 3 Cat. C
Ambient installation temperature, range	0 .. 40 °C
Storage temperature, range	-30 .. 70 °C
Operating temperature, range	-10 .. 70 °C

Product List

Nexans ref.	Name	Fiber optic type
 N165.001A	LANmark-OF ZC (2,8mm) 2x Multimode 50/125 OM3 LSZH Aqua	OM3 50/125
 N167.001A	LANmark-OF ZC (2,8mm) 2x Multimode 50/125 OM4 LSZH Aqua	OM4 50/125
 N164.001Y	LANmark-OF ZC (2,8mm) 2x Singlemode 9/125 OS2 LSZH Yellow	SM (G.652D)

☎ = Make to order,  = In stock


 Flame retardant
 IEC 60332 Part 3 Cat. C

 Ambient installation temperature,
 range
 0 .. 40 °C

 Storage temperature, range
 -30 .. 70 °C

 Operating temperature, range
 -10 .. 70 °C

Fibre Connectors & Connector Accessories

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

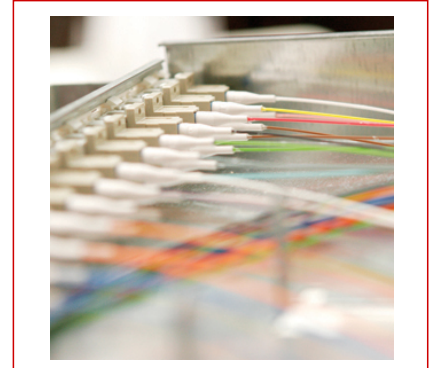
Each product has been thoroughly developed to ensure best system offering while meeting stringent international standards.

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 Anaerobic Connectors - Bulk Packaging

- Connectors for on-site termination
- Suitable for installation on 900µm fibre
- Bulk packaging for ease of installation
- Installed using the Nexans anaerobic toolkit

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 in bulk packaging are SC and LC. Both connectors are available in singlemode and multimode versions

For installers' convenience the connector bodies are all packed in one bag. The connectors' boots are packed in another bag separately. This bulk packaging reduces the time to unpack individual packed connectors and eliminates packaging waste.

For optimal installations, Nexans recommends to use its LANmark-OF Toolkit SM & MM Anaerobic Connector (starter kit), ref.: 102.230. This toolkit provides a comprehensive set of tools and consumables for easier on-site jobs and is supplied with illustrated installation manual.

Detailed description connectors

- Zirconia ceramic ferrule
- Outer diameter ferrule: 2.5 mm for SC and ST connectors and 1.25 mm for LC connectors
- Ferrule hole size: 126 µm for Singlemode connectors and 127 µm for multimode connectors
- Typical insertion loss: 0.2 dB
- Return loss > 35 dB for multimode and 45 dB for Singlemode connectors
- Durability < 0.1 dB typical change after 500 matings

Compliance to standards

- SC-connector: IEC 61754-04
- LC-connector: IEC 61754-20

Features/Benefits

- Fast anaerobic cure with adhesive and activator
- Limited consumable set required
- Overall cost effective technology for small projects: low cost connector, no investment in expensive tools
- No investment in furnace or expensive splicing tool required
- No investment in polishing machine: hand polish suggested
- Does not require electrical power to install
- Installation done within minutes
- Short set up time: No warming up of furnace required
- Reliable solution: No index matching gel in connector





**LANmark-OF**


Standards

International ISO/IEC 11801

LANmark-OF Anaerobic Connectors - Bulk Packaging

Product List

Nexans ref.	Name	Fiber optic type	Connector type
 N205.630BULK	LANmark-OF LC Connector Multimode Anaerobic 900µm 100X	Multimode	LC
 N205.635BULK	LANmark-OF LC Connector Singlemode Anaerobic 900µm 100X	SingleMode 9/125	LC
 N205.640BULK	LANmark-OF SC Connector Multimode Anaerobic 900µm 100X	Multimode	SC
 N205.645BULK	LANmark-OF SC Connector Singlemode Anaerobic 900µm 100X	SingleMode 9/125	SC

☎ = Make to order,  = In stock

LANmark-OF Anaerobic Connectors - Individually Packed

- 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

Product List

Product List		☞=Make to order, ☒=In stock	
Nexans ref.	Name	Fiber optic type	Connector type
☞ N102.461	LANmark-OF Simplex ST Connector Anaerobic Multimode for 900µm /2.8mm	Multimode	ST
☒ N205.120	LANmark-OF Simplex SC Connector Anaerobic Multimode for 900µm /2.8mm	Multimode	SC
☒ N205.630	LANmark-OF Simplex LC Connector Anaerobic Multimode for 900µm	Multimode	LC
☒ N205.631	LANmark-OF Simplex LC Connector Anaerobic Multimode for 1.6-2.2mm	Multimode	LC
		☞ = Make to order, ☒ = In stock	

LANmark-OF Hot Melt Connectors

- Connector for on-site termination
- Installed using the 3M Hot Melt Kit
- 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



LANmark-OF

Standards

International ISO/IEC 11801

Product List

Nexans ref.	Name	Fiber optic type	Connector type
☎ N102.462	LANmark-OF Simplex SC Connector Multimode for 900µm / 2.8mm (3M Hot Melt)	Multimode	SC
☎ N205.121	LANmark-OF Simplex ST Connector Multimode for 900µm / 2.8mm (3M Hot Melt)	Multimode	ST
☎ N890.008	LANmark-OF Simplex SC Connector Singlemode for 900µm / 2.8mm (3M Hot Melt)	SingleMode 9/125	SC
		☎ = Make to order, 📦 = In stock	

Contact

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

Connector Accessories

Description

Tools & accessories for termination of Nexans connectors



LANmark-OF

Standards

International ISO/IEC 11801

Connector Accessories

Product List

☎=Make to order, 📦=In stock

Nexans ref.	Name
📦 N102.221	Adhesive & Activator for Anaerobic Connector
📦 N102.230	LANmark-OF Toolkit SM & MM Anaerobic Connector (starter kit)
📦 N102.214	LANmark-OF Toolkit for Anaerobic Connector (extension to hotmelt kit)
📦 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)
📦 N102.225	Syringes for Anaerobic Toolkit (50/box)
📦 N102.226	Wipes for Anaerobic Toolkit (100/box)

☎ = Make to order, 📦 = In stock

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.



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

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

Description

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



Applications

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

LANmark-OF

Standards

International ISO/IEC 11801

Pre-Term characteristics

In order to reduce overlengths the Pre-Terms are custom made and available with 1m increments. The "XXX" in the N-number is the length in meter between the cable glands, i.e. the Pre-Term length between the back side of the patch panels.

The Pre-Terms are optimized for both laying and pulling. They are delivered with protecting tubes around the connectors and with a pulling eye on one side. This pulling eye is connected to the internal strength element of the cable and has a maximum pulling force of 450N.

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

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

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

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

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

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



Mechanical resistance to impacts
10 impacts of 3 N.m



Ambient installation temperature, range
0 .. 40 °C



Storage temperature, range
0 .. 60 °C



Flame retardant
IEC 60332-1



Fire retardant
IEC 60332-3

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

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

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

Fibre types and jacket colours

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

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

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

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

Benefits of Pre-Term


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


Characteristics






Mechanical characteristics	
Mechanical resistance to impacts	10 impacts of 3 N.m
Usage characteristics	
Ambient installation temperature, range	0 .. 40 °C
Storage temperature, range	0 .. 60 °C
Flame retardant	IEC 60332-1
Fire retardant	IEC 60332-3

Product List

 = Make to order,  = In stock

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

 = Make to order,  = In stock

 Mechanical resistance to impacts 10 impacts of 3 N.m	 Ambient installation temperature, range 0 .. 40 °C	 Storage temperature, range 0 .. 60 °C	 Flame retardant IEC 60332-1	 Fire retardant IEC 60332-3
--	--	---	---	--

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

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

☎ = Make to order, 📦 = In stock



Mechanical resistance to impacts
10 impacts of 3 N.m



Ambient installation temperature, range
0 .. 40 °C



Storage temperature, range
0 .. 60 °C



Flame retardant
IEC 60332-1



Fire retardant
IEC 60332-3

MPO System

Plug&Play-concept

The Nexans' Plug&Play concept is specially designed for the LAN and data centre environment. It facilitates fast installation of a large number of fibre connections, high density, quick changes with limited down time and an easy migration path to future applications.

The Plug&Play system consists of 3 subcomponents: the MTP-MTP Pre-Term, the Plug&Play modules and the Plug&Play patch panel.

The MTP-MTP Pre-Term provides the connectivity between 2 Plug&Play modules installed in the Plug&Play patch panels in 2 different racks. The MTP connector allows to quickly connecting the 12 fibres of the MTP-MTP Pre-Term at the back of each Plug&Play module. Inside the Plug&Play module the fibres are spread out towards the LC connectors at the front.



Optical performance and polarity method

Nexans' Plug&Play modules and fibre assemblies are available in 2 performance grades: LANmark-OF MPO connectivity and the newly introduced LANmark-OF MPO low loss connectivity. With the low loss connectivity insertion loss has been reduced by 40 %. It enables more complex data centre configurations, extended reach, more head room and a migration path to 40G/100G.

The fibre assemblies are available as LANmark-OF OM3 and LANmark-OF OM4 for extended reach. The Plug&Play modules have LANmark-OF OM4 performance and are backwards compatible with LANmark-OF OM3.

With LANmark-OF OM4 and the low loss solution up to 8 modules can be installed for an operational 10G channel. For 40G/100G a 4 connector channel up to 120 m can be supported.

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

Pre-Term assemblies

The Pre-Term assemblies are based on the advanced Micro-Bundle technology. A Micro-Bundle is a small and very flexible tube with 12 fibres and it is the central part of a range of new cable designs. With its small diameter and short bending radius Micro-Bundle cables meet the tight space requirements in data centres.

The Micro-Bundle technology has extremely low skew by its advanced manufacturing process and small diameter. The Pre-Term assemblies easily exceed the skew requirements for 40G and 100G Ethernet.

With the high fibre count of the Pre-Term trunk assemblies the number of installed cables in a data centre can be reduced. The Pre-Term trunks are available in 12, 24, 48 and 96 fibre counts. The trunk assemblies are very robust due to its central strength element and the aramid yarns, but have still a small diameter of maximum 6.4 mm and a small bending radius of maximum 65 mm. The very flexible MPO fan-out is easy to install in a patch panel. Additional features are a pulling eye and a protective tube.

The slim Pre-Term is available as a 12 core assembly. The small diameter of this solution makes it the preferred solution when space constraints in the cable trays and the racks are key concerns.

To allow the customer the full choice of configuration options cable assemblies are offered with both normal and low loss connectors. The assemblies are available in both LANmark-OF OS2, OM3 and OM4.

Plug&Play Patch Panel and modules

The new Plug&Play patch panels accommodate high density patching with installation of up to 4 Plug&Play modules. A maximum of 96 LC connections can be installed in one height unit. The patch panels are sliding and have an integrated patch cord guide that sits in front of the modules.

One patch panel (N441.2MPP) is optimised for the installation of the slim Pre-Term. The newly introduced Plug&Play patch panel (N439.3MPP) has optimised slots in the back of the panel for the fixation of the Pre-Term trunks with cable glands.

The modules are available in 3 configurations: 12 SC, 12 LC and 24 LC. Modules with 24 LC connections support very high density solutions, while a module with 12 LC adaptors facilitates the patching.

Modules are available in Singlemode OS2 and multimode LANmark-OF OM4, both in normal LANmark-OF MPO connectivity and low loss performance.

LANmark-OF Female MTP-LC Assemblies

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

Description

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

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

Construction

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

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

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

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

For a straight fan-out all connectors are located 600 mm from the fan-out point.

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

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

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

Features and benefits

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

Performance and polarity

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



LANmark-OF

Standards

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



Mechanical resistance to impacts
 10 impacts of 1 N.m



Flame retardant
 IEC 60332-1



Minimum static operating
 bending radius
 40 mm



Fire retardant
 IEC 60332-3



Storage temperature,
 range
 -20 .. 60 °C



Operating temperature,
 range
 0 .. 60 °C

LANmark-OF Female MTP-LC Assemblies

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

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

Bending radius of the cable is 40 mm.

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

Consistent quality

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

* MTP is a trade name of US Conec

Characteristics

Dimensional characteristics	
Nominal outer diameter	3.65 mm
Mechanical characteristics	
Mechanical resistance to impacts	10 impacts of 1 N.m
Crush resistance (IEC 60794-1-E3)	50 N/cm
Usage characteristics	
Flame retardant	IEC 60332-1
Minimum static operating bending radius	40 mm
Fire retardant	IEC 60332-3
Storage temperature, range	-20 .. 60 °C
Operating temperature, range	0 .. 60 °C



Mechanical resistance to impacts
10 impacts of 1 N.m



Flame retardant
IEC 60332-1



Minimum static operating bending radius
40 mm



Fire retardant
IEC 60332-3



Storage temperature, range
-20 .. 60 °C



Operating temperature, range
0 .. 60 °C

LANmark-OF Female MTP-LC Assemblies

Product List

☎=Make to order, 📦=In stock

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

☎ = Make to order, 📦 = In stock

N-number: N129.AVLLLLFxxxC
N129 table

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


 Mechanical resistance to impacts
 10 impacts of 1 N.m

 Flame retardant
 IEC 60332-1

 Minimum static operating
 bending radius
 40 mm

 Fire retardant
 IEC 60332-3

 Storage temperature,
 range
 -20 .. 60 °C

 Operating temperature,
 range
 0 .. 60 °C

LANmark-OF MTP-MTP Patch Cords

- Optical fiber patch cords
- 40G Ethernet
- LANmark-OF OM3, OM4 and SM performance
- For use in data centres

Description

Nexans LANmark-OF 40G patch cords have been designed for indoor applications in support of 40G Ethernet, i.e. 40GBase-SR4. Details on the supported distances can be found in the LANmark-OF warranty modules.

Typical installation environments are:

- Cabinets to connect patch panels to active equipment.
- Cross connects in data centres.

Nexans LANmark-OF 40G patchcords are straight patch cords with a key up - key up design. Depending on the channel configuration the patch cords are available with male-male, female-female or male-male MTP* connectors.

The patch cords are available with OM3 and OM4. Details on the fibre specifications can be found in the detailed fibre datasheets.

The typical value for the insertion loss for a 40G patch cord is 0,15 dB. The limit value is 0,35 dB measured according to standard IEC61300-3-45.

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

The small diameter of 3.65 mm of the cable reduces significantly the expensive space required for cabling in a data centre and facilitates the airflow.

The length between the 2 MTP-connectors is variable and can be increased in steps of 1m. The "LLL" in the N-number equals LL.Lm. For instance 020 stands for 2m.

* MTP is a trade name of US Conec



LANmark-OF

Standards

International ISO/IEC 11801

Characteristics

Construction characteristics	
Colour	Aqua
Outer sheath	LSZH-FR
Dimensional characteristics	
Nominal outer diameter	3.65 mm
Mechanical characteristics	
Mechanical resistance to impacts (IEC 60794-1-E4)	10 impacts of 1 N.m
Crush resistance (IEC 60794-1-E3)	50 N/cm



Mechanical resistance to impacts (IEC 60794-1-E4)
10 impacts of 1 N.m



Flame retardant
IEC 60332-1



Minimum static operating
bending radius
40 mm



Fire retardant
IEC 60332-3







Operating temperature,
range
0 .. 60 °C



LANmark-OF MTP-MTP Patch Cords

Usage characteristics

Flame retardant	IEC 60332-1
Minimum static operating bending radius	40 mm
Fire retardant	IEC 60332-3
Operating temperature, range	0 .. 60 °C

Product List

Nexans ref.	Name	Fiber optic type	Connector type
 N125.5SFF12AAXXX	LANmark-OF 40G Patch Cord Female MPO-Female MPO Straight OM3 XX.Xm Aqua	OM3 50/125	Female MPO - Female MPO
 N125.7SFF12AAXXX	LANmark-OF 40G Patch Cord Female MPO-Female MPO Straight OM4 XX.Xm Aqua	OM4 50/125	Female MPO - Female MPO
 N125.5SMF12AAXXX	LANmark-OF 40G Patch Cord Male MPO-Female MPO Straight OM3 XX.Xm Aqua	OM3 50/125	Male MPO - Female MPO
 N125.7SMF12AAXXX	LANmark-OF 40G Patch Cord Male MPO-Female MPO Straight OM4 XX.Xm Aqua	OM4 50/125	Male MPO - Female MPO

 = Make to order,  = In stock



Mechanical resistance to impacts (IEC 60794-1-E4)
10 impacts of 1 N.m



Flame retardant
IEC 60332-1



Minimum static operating bending radius
40 mm



Fire retardant
IEC 60332-3



Operating temperature, range
0 .. 60 °C

LANmark-OF Plug&Play Patch Panels

- Optical patch panels that holds up 4 MPO modules in 1 HU
- Sliding patch panels for ease of installation, upgrade and maintenance
- High density connectivity: up to 48 SC or 96 LC depending on module type.
- Labelling front for port identification and patch cord management within 1 HU

Description

Plug&Play Concept Description

The Nexans' Plug and Play concept is specifically designed for installation in data centres where the high density, integrated patch cord guide and enhanced installation benefits of the patch panel meet the key requirements for implementation. It allows quick changes with limited down time, easy migration to other applications and a transition path to 40G.

The Plug&Play system consists of 3 subcomponents: Plug&Play modules, the MPO-MPO Pre-Term and the Plug&Play patch panel.

The modules provide the transition between the MPO-MPO Pre-Term and the active devices: the Pre-Term connects to the back of the module and inside the module the fibres are spread out towards the SC/LC connectors at the front. Modules are available in a wide variety of port counts and connector style.

Plug&Play Patch Panel Characteristics

The Nexans unique patch panel design allows to hold up to 4 MPO cassettes in 1HU of the distribution rack. Depending on the type of the module a high density of up to 96 fibre connections can be accommodated.

The new patch cord guide sits in front of the modules and allows the patch cords to be managed within the same 1 HU saving expensive rack space.

The patch cord guide also provides a labelling facility to identify connections. Additional labelling is provided by printed port numbers on the modules.

The newly developed trays slide for improved access to install new modules and to fix the MPO-MPO Pre-Term easily. The front of the patch panel can be fixed in a flush or recessed position in the rack.

The N439.2MPP is optimised for installation of the trunk MPO-MPO Pre-Term: the cable glands of the Pre-Term allow a fast and solid fixation of the cable. There is ample space inside the patch panel to organise the flexible fan-out of the MPO-MPO Pre-Term.

The N441.2MPP is optimised for installation of multiple slim Pre-Terms. The slim Pre-Terms are fixed with tie wraps.

Panels are fully painted in black for a professional look and feel.

Blank fillers (N441.2MBP) are available as separate accessories for unused positions to give a finished look.

**LANmark-OF**

Standards

International ISO/IEC 11801

LANmark-OF Adapter Plates

- Adapter plates for 3DSC, 6DSC, 6DLC or 12DLC
- Available in multimode and singlemode
- Module can be easily mounted into Nexans' Plug&Play patch panel
- High density: 4 modules fit into 1U

Description

Application

Robust solution for high-density applications such as Data Centres and Storage Area Networks (SAN).

All adapter plates snap quickly into the front of fibre optic patch panels for easy network deployments or moves, adds and changes.

Adapter panels allow flexibility of installation and allow to expand the fibre optic system as the requirements for fibre grow over time.

Compatibility

The adapter plates are installed in the LANmark-OF Plug&Play Patch panels (N439.3MPP). Up to 4 adapters plates can be installed into one patch panel.

Adapter plate versions.

The adapter plates are available with a density of 3DSC, 6DSC, 6DLC or 12DLC. This results in a medium density of 48SC/48LC or a high density of 96 LC in one patch panel.

The adapter plates are available for multimode and singlemode.

Blank adapter plates reserve fibre space for future use.



LANmark-OF

Standards

International ISO/IEC 11801

Nexans ref.	Name	Connector type	Fiber optic type
N205.ALC12MMA	LANmark-OF Adaptor Plate 12 LC Multimode Aqua	LC	Multimode
N205.ALC24MMA	LANmark-OF Adaptor Plate 24 LC Multimode Aqua	LC	Multimode
N205.ALC12SMB	LANmark-OF Adaptor Plate 12 LC Singlemode Blue	LC	SingleMode 9/125
N205.ALC24SMB	LANmark-OF Adaptor Plate 24 LC Singlemode Blue	LC	SingleMode 9/125
N205.ALC12SAG	LANmark-OF Adaptor Plate 12 LC Singlemode APC Green	LC/APC	SingleMode 9/125
N205.ALC24SAG	LANmark-OF Adaptor Plate 24 LC Singlemode APC Green	LC/APC	SingleMode 9/125
N205.ASC06MMA	LANmark-OF Adaptor Plate 6 SC Multimode Aqua	SC	Multimode
N205.ASC12MMA	LANmark-OF Adaptor Plate 12 SC Multimode Aqua	SC	Multimode
N205.ASC06SMB	LANmark-OF Adaptor Plate 6 SC Singlemode Blue	SC	SingleMode 9/125
N205.ASC12SMB	LANmark-OF Adaptor Plate 12 SC Singlemode Blue	SC	SingleMode 9/125
N205.ASC06SAG	LANmark-OF Adaptor Plate 6 SC Singlemode APC Green	SC/APC	SingleMode 9/125
N205.ASC12SAG	LANmark-OF Adaptor Plate 12 SC Singlemode APC Green	SC/APC	SingleMode 9/125

LANmark-OF Plug&Play Module

- Play&Play module with 12 LC or 24 LC connections
- Available in LANmark-OF OM4 multimode and LANmark-OF OS2 singlemode
- Module can be easily mounted into Nexans' Plug&Play patch panel
- High density: 4 modules fit into 1U
- Plug&Play modules are pre-installed and 100 % factory tested

Description

The Plug&Play system consists of 3 subcomponents: the Plug&Play modules, the MTP-MTP* Pre-Terms and the Plug&Play patch panel.

The central component is the pre-installed Plug&Play module. The MTP connector at the back of the module connects at once 12 fibres to the MTP-MTP Pre-Term. Inside the module the fibres are spread out towards the LC adaptors at the front.



Plug&Play Module Characteristics

Up to 4 Plug&Play modules can be installed quickly into the Plug&Play patch panel with push rivets. With these 4 modules a medium density of 48 LC or a high density of 96 LC connections within 1U can be achieved.

The insertion loss for the multimode LANmark-OF Plug&Play low loss module is 0,6 dB measured according to standard IEC 61300-3-45. The minimum return loss for a multimode MTP connection is 20 dB measured according to IEC 61300-3-6.

The insertion loss for the singlemode LANmark-OF Plug&Play module is 0,9 dB measured according to standard IEC 61300-3-45. The minimum return loss for a singlemode MTP connection is 45 dB measured according to IEC 61300-3-6.

The modules are available with OM4 fibres for multimode and are backwards compatible with OM3 fibres. The LC multimode adaptors are aqua. The singlemode module has G652D fibres for OS2 compatibility. The LC singlemode adaptors are blue.

The wiring inside the module is straight. This allows to maintain polarity in the MPO-link together with the pair-wise fibre flip inside the MPO-MPO Pre-Term according to method C from standard TIA 568-B-1-7-2007.

Since all connectivity is factory installed and factory tested installation times are short for a quick deployment or for frequent changes.

The Plug&Play module has standard pinned (male) connectors. This matches perfectly with the non-pinned (female) connectors of the MTP-MTP Pre-Term.

* MTP is a trade name of US Conec

LANmark-OF

Standards

International ISO/IEC 11801

LANmark-OF Plug&Play Module

Product List

☎=Make to order, 📦=In stock

Nexans ref.	Name
☎ N441.4L24LC4	LANmark-OF Plug&Play Low Loss Module 24 LC OM4 Aqua
☎ N441.4L12LC4	LANmark-OF Plug&Play Low Loss Module 12 LC OM4 Aqua
☎ N441.4M12LC0	LANmark-OF Plug&Play Module 12 LC Singlemode
☎ N441.4M24LC0	LANmark-OF Plug&Play Module 24 LC Singlemode

☎ = Make to order, 📦 = In stock

Optical performance Plug&Play module

Characteristic	low loss multimode (OM3 or OM4)	SM (OS2 with G652D)
Maximum insertion loss	0,60 dB	0,90 dB
Typical insertion loss	0,30 dB	0,40 dB
IEC standard insertion loss	IEC61300-3-45	IEC61300-3-45
Minimum return loss	20 dB	45 dB
IEC standard return loss	IEC 61300-3-6	IEC 61300-3-6

LANmark-OF MTP-MTP Pre-Term

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

Description

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

Small cable

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

Easy to install round cable

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

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

MTP*-MTP Pre-Term characteristics

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

In order to reduce overlengths in data centers the Pre-Terms are custom made and available with 1m increments. The "XXX" in the N-number is the length in metre between the cable glands, i.e. the Pre-Term length between the back side of the patch panels.

The 12 core MTP-MTP* Pre-Term – Laying is optimised for installation by laying in data centres over short distances. Due to the short length for installation there is no pulling eye and protective tube provided with this Pre-Term.

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



LANmark-OF

Standards

International ISO/IEC 11801



Mechanical resistance to impacts
10 impacts of 1 N.m



Ambient installation temperature, range
0 .. 40 °C



Storage temperature, range
-20 .. 60 °C



Flame retardant
IEC 60332-1



Fire retardant
IEC 60332-3

LANmark-OF MTP-MTP Pre-Term

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

Optical Performance and Polarity

The typical value for the insertion loss for a low loss multimode MTP-MTP* connection is 0,2 dB. The limit value is 0,35 dB measured according to standard IEC61300-3-45. The minimum return loss for a multimode MTP connection is 20 dB measured according to IEC 61300-3-6.

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

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

Consistent quality

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

* MTP is a trade name of US Conec

Characteristics

Mechanical characteristics	
Mechanical resistance to impacts	10 impacts of 1 N.m
Usage characteristics	
Ambient installation temperature, range	0 .. 40 °C
Storage temperature, range	-20 .. 60 °C
Flame retardant	IEC 60332-1
Fire retardant	IEC 60332-3

Optical Performance

Fiber optic type	Insertion Loss, max [dB]	Return Loss, min [dB]
OM3 50/125	0.35	20
OM4 50/125	0.35	20
SM (G.652D)	0.6	45



Mechanical resistance to impacts
10 impacts of 1 N.m



Ambient installation temperature, range
0 .. 40 °C



Storage temperature, range
-20 .. 60 °C



Flame retardant
IEC 60332-1



Fire retardant
IEC 60332-3

LANmark-OF MTP-MTP Pre-Term

Mechanical and Dimensional Characteristics duplicata

Nb optical fibres	Nom. outer diam. [mm]	Min. dynamic operating bending rad. [mm]	static bending rad. [mm]	Crush resistance (IEC 60794-1-E3) [N/cm]
12	3.65	40.0	40	50
12	3.65	40.0	40	50
24	5.4	80.0	65	100
48	5.4	80.0	65	100
96	6.4	100.0	65	100

N-Numbers and Description duplicata

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



Mechanical resistance to impacts
10 impacts of 1 N.m



Ambient installation temperature, range
0 .. 40 °C



Storage temperature, range
-20 .. 60 °C



Flame retardant
IEC 60332-1



Fire retardant
IEC 60332-3

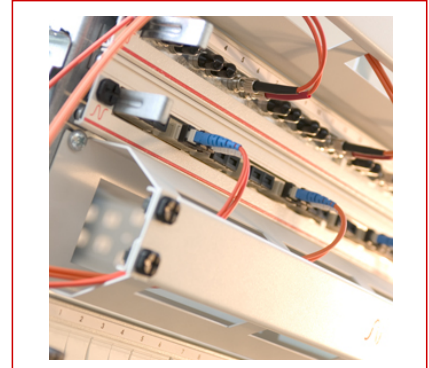
Fibre Patch Panels

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 Sliding 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. 1U
- 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

Product List

☎ = Make to order, 📦 = In stock

Nexans ref.	Name
📦 N441.204 New	LANmark-OF Patch Panel Snap-In Sliding Black
📦 N441.203 New	LANmark-OF Patch Panel Snap-In Sliding White
📦 N441.201	LANmark-OF Patch Panel 24 ST Sliding White

☎ = Make to order, 📦 = In stock

LANmark-OF Angled Preloaded Patch Panel

- Preloaded patch panels with adaptors for fast installation in data centres
- High density connectivity: 48 or 96 LC.
- Singlemode and multimode
- Removable tray for ease of installation, upgrade and maintenance
- Optimised for installation of Pre-Term with a cable gland and fibre management features
- Improved splice cassettes with lifting functionality for improved ease of installation and inspection
- Patch panel with reduced depth
- Angled patch panel for improved patch cord management within 1U

Description

The new preloaded patch panel is specifically designed for installation in data centres where the high density, angled design for improved patch cord management and enhanced installation benefits of the patch panel meet the key requirements for implementation.

The patch panels are preloaded with LC adaptors and are available in medium and high density versions. The medium density patch panel provides 48 LC connections, while the high density version has 96 LC connections. Singlemode and multimode versions are available.

The angular shape is matching the shape of the Nexans copper V-shape panel. This shape is perfectly suited to guide the patch cords horizontally to the side of the panel.

The newly developed tray of the patch panel can be removed from the rack completely to ease installation of direct terminated or spliced fibre and faster installation of Pre-Term fibre.

The preloaded patch panel has extended rear cable management with multiple entries to provide maximum flexibility. It accommodates both cable glands and tie wraps for strain relief of the cables. The cable gland sizes are 20 mm (8x) and 25 mm (2x).

For improved fibre management the fibres can be arranged in 4 separate loops for added flexibility and organisation. The support bases and the rings for these 4 loops are included as standard.

The patch panel tray has multiple, specially designed, slots at the rear to fix the cable glands of Nexans' pre-terminated cables. There is ample space inside the patch panel to organise the flexible fan-out of the pre-terminated cables.

Up to 4 splice cassettes (N890.090 and N890.091) can be installed inside the tray of the patch panel. Only one cover (N890.092) is required to close the splice cassettes at the top. The bottom splice cassette is fixed with screws to the tray of the patch panel. Splice cassettes are fixed with hinges to the cassette below and with such an installation the splice cassettes can be lifted and tilted for improved access to the splices inside the patch panel. This facilitates the inspection of the splices after installation.

Each splice cassette for heat shrink protection (N890.090) can accommodate 12 splices allowing a maximum of 48 splices for the complete patch panel.

The splice cassette for aluminium protection (N890.091) has a maximum of 24 splices resulting in a maximum of 96 splices per patch panel. N890.091 can only be used with maxistrip pigtailed cables with 250 um fibres.

Splice cassettes are not included in the patch panel and must be ordered separately.

Panels are fully painted in black for a professional look and feel.







LANmark-OF


Standards

International ISO/IEC 11801

LANmark-OF Angled Preloaded Patch Panel

Product List

Nexans ref.	Name
 N439.2A48LCMM	LANmark-OF Angled Preloaded Patch Panel 48 LC Multimode Black
 N439.2A48LCSM	LANmark-OF Angled Preloaded Patch Panel 48 LC Singlemode Black
 N439.2A96LCMM	LANmark-OF Angled Preloaded Patch Panel 96 LC Multimode Black
 N439.2A96LCSM	LANmark-OF Angled Preloaded Patch Panel 96 LC Singlemode Black

☎ = Make to order,  = In stock

LANmark-OF Sliding Preloaded Patch Panels

- Preloaded patch panels with adaptors for fast installation in data centres
- High density connectivity: up to 48 SC or 96 LC.
- Sliding and tilting patch panel for ease of installation, upgrade and maintenance
- Optimised for installation of Pre-Term with a cable gland and fibre management features
- Improved splice cassettes with lifting functionality for improved ease of installation and inspection
- Labelling facility for port identification and patch cord management within 1 U

Description

The new pre-loaded patch panel is specifically designed for installation in data centres where the high density, integrated patch cord guide and enhanced installation benefits of the patch panel meet the key requirements for implementation.

The patch panels are pre-loaded with SC or LC adaptors and are available in medium and high density versions. The medium density patch panel provides 24 SC or 48 LC connections, while the high density version has 48 SC or 96 LC connections. Singlemode and multimode versions are available.

The new patch cord guide sits in front of the adaptors and allows the patch cords to be managed within the same 1 U saving expensive rack space.

The patch cord guide also provides a labelling facility to identify connections. Additional labelling is provided by printed port numbers on the adaptor plate.

The newly developed chassis of the patch panel can be removed from the rack completely to ease installation of direct terminated or spliced fibre and faster installation of pre-terminated cables. The tray tilts and slides for improved access to the installed fibres for inspection.

The pre-loaded patch panel has extended cable management with multiple entries to provide maximum flexibility. It accommodates both cable glands and tie wraps for strain relief of the cables. The cable gland sizes are 20 mm (8x) and 25 mm (2x).

For improved fibre management the fibres can be arranged in 4 separate loops for added flexibility and organisation. The support bases and the rings for these 4 loops are included.

The patch panel chassis has multiple, specially designed, slots at the rear to fix the cable glands of Nexans' pre-terminated cables. There is ample space inside the patch panel to organise the flexible fan-out of the pre-terminated cables.

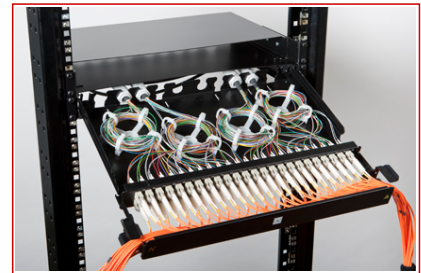
Up to 4 splice cassettes (N890.090 and N890.091) can be installed inside the tray of the patch panel. Only one cover (N890.092) is required to close the splice cassettes at the top. The bottom splice cassette is fixed with screws to the chassis of the patch panel. Splice cassettes are fixed with hinges to the cassette below and with such an installation the splice cassettes can be lifted and tilted for improved access to the splices inside the patch panel. This facilitates the inspection of the splices after installation.

Each splice cassette for heat shrink protectors (N890.090) can accommodate 12 splices allowing a maximum of 48 splices for the complete patch panel.

The splice cassette for aluminium protectors (N890.091) has a maximum of 24 splices resulting in a maximum of 96 splices per patch panel. N890.091 can only be used with maxistrip pigtailed cables with 250 um fibres.

Splice cassettes are not included in the patch panel.

The front adaptor plate can be fixed in a flush or recessed position in the rack using the adjustable side brackets. When the panel is installed recessed the distance between the rack vertical and the rear of the panel is 288 mm. The front cord management projection is 67 mm. When the panel is installed flush the distance between the rack vertical and the rear of the panel is 248 mm. The front cord management projection is 107 mm.



LANmark-OF

Standards

International ISO/IEC 11801

LANmark-OF Sliding Preloaded Patch Panels

Panels are fully painted in black for a professional look and feel.

LANmark-OF Sliding Preloaded Patch Panels

Product List

☎=Make to order, 📦=In stock

Nexans ref.	Name
📦 N439.2B48LCMM	LANmark-OF Preloaded Patch Panel 48 LC Multimode Sliding Black
📦 N439.2B24LCMM	LANmark-OF Preloaded Patch Panel 24 LC Multimode Sliding Black
📦 N439.2B24LCSM	LANmark-OF Preloaded Patch Panel 24 LC Singlemode Sliding Black
📦 N439.2B48LCSM	LANmark-OF Preloaded Patch Panel 48 LC Singlemode Sliding Black
📦 N439.2B48SCMM	LANmark-OF Preloaded Patch Panel 48 SC Multimode Sliding Black
📦 N439.2B48SCSM	LANmark-OF Preloaded Patch Panel 48 SC Singlemode Sliding Black
📦 N439.2B96LCMM	LANmark-OF Preloaded Patch Panel 96 LC Multimode Sliding Black
📦 N439.2B96LCSM	LANmark-OF Preloaded Patch Panel 96 LC Singlemode Sliding Black

☎ = Make to order, 📦 = In stock

Essential-OF Fixed 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 1U 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 (N890.095, N890,096 or N890.097).

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

Essential-OF Fixed Patch Panel

Characteristics



Dimensional characteristics



Width	19 in
Heightunit	1 U
Depth	233 mm

Usage characteristics

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

Product List

Nexans ref.	Name	Connector type
 N441.122	Essential-OF Patch Panel 24 SC White	SC
 N441.121	Essential-OF Patch Panel 24 ST White	ST

 = Make to order,  = In stock

Outlets

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 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
 = Make to order,  = In stock	

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 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



Contact

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

Structural Hardware

Product List

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

 = Make to order,  = In stock

Patch Cords

LANmark-OF High Density Slimflex Patch Cord Duplex LC OM3

- Optical fibre patch cords
- Pull tab for patch cord removal in high density areas
- LANmark-OF OM3 performance
- For use in cabinets and workplaces
- Bend radius reduced to 7.5 mm
- GIGAliteFLEX bend insensitive fibre
- Round patch cord with uniboot design

Description

Optimised for data centres environments

Due to space constraints data centres require high density solutions. With traditional patch cords the operational efficiency is reduced since the latch of the patch cord is above the connector. In dense areas it is often impossible to reach: an additional removal tool is required. With the new pull tab design the latch is extended to the space in front of the connector. In this area the pull tab can be easily grapped and the patch cord is released with a simple pull.

LANmark-OF Slimflex patch cords have a very small bend radius of 7.5 mm due to the use of advanced sheathing material and GIGAliteFLEX bend insensitive fibre.

The small bend radius of the patch cord is beneficial in high density patching areas where a lot of bends are common. There is a high risk that the larger bend radius (40 mm) of traditional patch cords is not maintained resulting in high attenuation and loss of transmission.

The round design of the Slimflex patch cord results in a small bend radius in any direction. Traditional patch cords based on a zipcord design have a bend radius that is dependent on the orientation.

The advanced sheathing material allows a very flexible patch cord without any memory or kink effect.

The advanced sheathing material has higher resistance to abrasion and cutting compared to traditional LSZH material. This results in reduced sheath damage when pinched between doors or around sharp bends.

With the round design of the patch cable the area required for the patch cord has also been reduced by 30 % resulting in space savings and reduced disturbance of the airflow for cooling.

For the support of the advanced high speed Ethernet protocols with stringent power budgets the Slimflex patch cord features a low loss performance of 0.3 dB. This increases the headroom in the channel and reduces the risk of down time.



LANmark-OF

Standards

International ISO/IEC 11801

Characteristics



Mechanical resistance to impacts (IEC 60794-1-E4)
10 impacts of 1 N.m



Minimum static operating bending radius
7.5 mm



Fire retardant
IEC 60332-1



Operating temperature, range
-20 .. 60 °C

LANmark-OF High Density Slimflex Patch Cord Duplex LC OM3

- Patch cord cable is according to IEC 60794-2-50
- Maximum insertion loss according to IEC 61300-3-4: 0.3 dB
- Typical insertion loss: 0.15 dB
- Minimum return loss according to IEC 61300-3-6: 30 dB
- Color of Jacket: Aqua
- **GIGAliteFLEX** bend insensitive fibre
- LANmark-OF OM3 performance: compliant to IEC60793-2-10, subtype A1a.2

Guarantees and installation

Nexans LANmark-OF optical fibre patch cords have been designed for indoor applications in support of high speed protocols.

High speed protocols supported include, but are not limited to

- Ethernet: 1GBase-SX, 10GBase-SR
- Fibre channel Serial: 4G, 8G and 16G

Details on the supported distances can be found in the LANmark-OF warranty modules.

Typical installation environments are:

- Cabinets to connect patch panels to active equipment.
- Cross connects in data centres.
- Suitable for use in the work area to connect the workstation to the wall outlet (Fibre To The Desk).

Design

Nexans LANmark-OF patchcords designed according to the "Cross-Over" wiring principle to improve field installation (A1-B2, B1-A2). This complies to the requirements of IEC 11801 and EN 50174-1:2009.

Characteristics

Construction characteristics	
Outer sheath	LSZH-FR
Connector type	Duplex LC-LC
Armour type	Aramid yarn
Fiber optic type	OM3 50/125
Dimensional characteristics	
Outer Diameter	2.6 mm
Transmission characteristics	
Return Loss, Minimum, dB	30 dB
Insertion Loss, maximum, dB	0.3 dB
Mechanical characteristics	
Maximum pulling force (IEC 60794-1-2-E1)	200 N
Crush resistance (IEC 60794-1-E3)	100 N/cm



Mechanical resistance to impacts (IEC 60794-1-E4)
10 impacts of 1 N.m



Minimum static operating bending radius
7.5 mm



Fire retardant
IEC 60332-1



Operating temperature, range
-20 .. 60 °C

LANmark-OF High Density Slimflex Patch Cord Duplex LC OM3



Mechanical characteristics



 Mechanical resistance to impacts (IEC 60794-1-E4) 10 impacts of 1 N.m
Usage characteristics

 Minimum static operating bending radius 7.5 mm

 Fire retardant IEC 60332-1

 Operating temperature, range -20 .. 60 °C
Product List

Nexans ref.	Name	Colour
 N122.5CWA020	LANmark-OF High Density Slimflex Patch Cord Duplex LC OM3 LSZH 2m Aqua	Aqua
 N122.5CWAxxx	LANmark-OF High Density Slimflex Patch Cord Duplex LC OM3 LSZH xx.xm Aqua	Aqua

 = Make to order,  = In stock


 Mechanical resistance to impacts (IEC 60794-1-E4)
 10 impacts of 1 N.m

 Minimum static operating bending radius
 7.5 mm

 Fire retardant
 IEC 60332-1

 Operating temperature, range
 -20 .. 60 °C

LANmark-OF High Density Slimflex Patch Cord Duplex LC OM4

- Optical fibre patch cords
- Pull tab for patch cord removal in high density areas
- LANmark-OF OM4 performance
- For use in cabinets and workplaces
- Bend radius reduced to 7.5 mm
- GIGAliteFLEX bend insensitive fibre
- Round patch cord with uniboot design

Description

Optimised for data centres environments

Due to space constraints data centres require high density solutions. With traditional patch cords the operational efficiency is reduced since the latch of the patch cord is above the connector. In dense areas it is often impossible to reach: an additional removal tool is required. With the new pull tab design the latch is extended to the space in front of the connector. In this area the pull tab can be easily grapped and the patch cord is released with a simple pull.

LANmark-OF Slimflex patch cords have a very small bend radius of 7.5 mm due to the use of advanced sheathing material and GIGAliteFLEX bend insensitive fibre.

The small bend radius of the patch cord is beneficial in high density patching areas where a lot of bends are common. There is a high risk that the larger bend radius (40 mm) of traditional patch cords is not maintained resulting in high attenuation and loss of transmission.

The round design of the Slimflex patch cord results in a small bend radius in any direction. Traditional patch cords based on a zipcord design have a bend radius that is dependent on the orientation.

The advanced sheathing material allows a very flexible patch cord without any memory or kink effect.

The advanced sheathing material has higher resistance to abrasion and cutting compared to traditional LSZH material. This results in reduced sheath damage when pinched between doors or around sharp bends.

With the round design of the patch cable the area required for the patch cord has also been reduced by 30 % resulting in space savings and reduced disturbance of the airflow for cooling.

For the support of the advanced high speed Ethernet protocols with stringent power budgets the Slimflex patch cord features a low loss performance of 0.3 dB. This increases the headroom in the channel and reduces the risk of down time.



LANmark-OF

Standards

International ISO/IEC 11801

Characteristics



Mechanical resistance to impacts (IEC 60794-1-E4)
10 impacts of 1 N.m



Minimum static operating bending radius
7.5 mm



Fire retardant
IEC 60332-1



Operating temperature, range
-20 .. 60 °C

LANmark-OF High Density Slimflex Patch Cord Duplex LC OM4

- Patch cord cable is according to IEC 60794-2-50
- Maximum insertion loss according to IEC 61300-3-4: 0.3 dB
- Typical insertion loss: 0.15 dB
- Minimum return loss according to IEC 61300-3-6: 30 dB
- Color of Jacket: Aqua
- **GIGAliteFLEX** bend insensitive fibre
- LANmark-OF OM4 performance: compliant to IEC60793-2-10, subtype A1a.3

Guarantees and installation

Nexans LANmark-OF optical fibre patch cords have been designed for indoor applications in support of high speed protocols.

High speed protocols supported include, but are not limited to

- Ethernet: 1GBase-SX, 10GBase-SR
- Fibre channel Serial: 4G, 8G and 16G

Details on the supported distances can be found in the LANmark-OF warranty modules.

Typical installation environments are:

- Cabinets to connect patch panels to active equipment.
- Cross connects in data centres.
- Suitable for use in the work area to connect the workstation to the wall outlet (Fibre To The Desk).

Design

Nexans LANmark-OF patchcords designed according to the "Cross-Over" wiring principle to improve field installation (A1-B2, B1-A2). This complies to the requirements of IEC 11801 and EN 50174-1:2009.

Characteristics

Construction characteristics	
Outer sheath	LSZH-FR
Connector type	Duplex LC-LC
Armour type	Aramid yarn
Fiber optic type	OM4 50/125
Dimensional characteristics	
Outer Diameter	2.6 mm
Transmission characteristics	
Return Loss, Minimum, dB	30 dB
Insertion Loss, maximum, dB	0.3 dB
Mechanical characteristics	
Maximum pulling force (IEC 60794-1-2-E1)	200 N
Crush resistance (IEC 60794-1-E3)	100 N/cm



Mechanical resistance to impacts (IEC 60794-1-E4)
10 impacts of 1 N.m



Minimum static operating bending radius
7.5 mm



Fire retardant
IEC 60332-1



Operating temperature, range
-20 .. 60 °C

LANmark-OF High Density Slimflex Patch Cord Duplex LC OM4



Mechanical characteristics



 Mechanical resistance to impacts (IEC 60794-1-E4) 10 impacts of 1 N.m
Usage characteristics

 Minimum static operating bending radius 7.5 mm

 Fire retardant IEC 60332-1

 Operating temperature, range -20 .. 60 °C
Product List

Nexans ref.	Name	Colour
 N122.7CWA020	LANmark-OF High Density Slimflex Patch Cord Duplex LC OM4 LSZH 2m Aqua	Aqua
 N122.7CWAxxx	LANmark-OF High Density Slimflex Patch Cord Duplex LC OM4 LSZH xx.xm Aqua	Aqua

 = Make to order,  = In stock


 Mechanical resistance to impacts (IEC 60794-1-E4)
 10 impacts of 1 N.m

 Minimum static operating bending radius
 7.5 mm

 Fire retardant
 IEC 60332-1

 Operating temperature, range
 -20 .. 60 °C

LANmark-OF High Density Slimflex Patch Cord Duplex LC Singlemode

- Optical fibre patch cords
- Pull tab for patch cord removal in high density areas
- LANmark-OF Singlemode performance
- For use in cabinets and workplaces
- Bend radius reduced to 7.5 mm
- GIGAliteFLEX bend insensitive fibre
- Round patch cord with uniboot design

Description

Optimised for data centres environments

Due to space constraints data centres require high density solutions. With traditional patch cords the operational efficiency is reduced since the latch of the patch cord is above the connector. In dense areas it is often impossible to reach: an additional removal tool is required. With the new pull tab design the latch is extended to the space in front of the connector. In this area the pull tab can be easily grapped and the patch cord is released with a simple pull.

LANmark-OF Slimflex patch cords have a very small bend radius of 7.5 mm due to the use of advanced sheathing material and GIGAliteFLEX bend insensitive fibre.

The small bend radius of the patch cord is beneficial in high density patching areas where a lot of bends are common. There is a high risk that the larger bend radius (40 mm) of traditional patch cords is not maintained resulting in high attenuation and loss of transmission.

The round design of the Slimflex patch cord results in a small bend radius in any direction. Traditional patch cords based on a zipcord design have a bend radius that is dependent on the orientation.

The advanced sheathing material allows a very flexible patch cord without any memory or kink effect.

The advanced sheathing material has higher resistance to abrasion and cutting compared to traditional LSZH material. This results in reduced sheath damage when pinched between doors or around sharp bends.

With the round design of the patch cable the area required for the patch cord has also been reduced by 30 % resulting in space savings and reduced disturbance of the airflow for cooling.

For the support of the advanced high speed Ethernet protocols with stringent power budgets the Slimflex patch cord features a low loss performance of 0.3 dB. This increases the headroom in the channel and reduces the risk of down time.



LANmark-OF

Standards

International ISO/IEC 11801



Mechanical resistance to impacts (IEC 60794-1-E4)
10 impacts of 1 N.m



Minimum static operating bending radius
7.5 mm



Fire retardant
IEC 60332-1



Operating temperature, range
-20 .. 60 °C

LANmark-OF High Density Slimflex Patch Cord Duplex LC Singlemode

Characteristics

- Patch cord cable is according to IEC 60794-2-50
- Maximum insertion loss according to IEC 61300-3-4: 0.3 dB
- Typical insertion loss: 0.15 dB
- Minimum return loss according to IEC 61300-3-6: 30 dB
- Color of Jacket: Yellow
- **GIGAliteFLEX** bend insensitive fibre
- LANmark-OF SM performance: compliant to IEC60793-2-50, subtype B6.a2, compatible with G652D.

Guarantees and installation

Nexans LANmark-OF optical fibre patch cords have been designed for indoor applications in support of high speed protocols.

High speed protocols supported include, but are not limited to

- Ethernet: 1GBase-LX, 10GBase-LR
- Fibre channel Serial: 4G, 8G and 16G

Details on the supported distances can be found in the LANmark-OF warranty modules.

Typical installation environments are:

- Cabinets to connect patch panels to active equipment.
- Cross connects in data centres.
- Suitable for use in the work area to connect the workstation to the wall outlet (Fibre To The Desk).

Design

Nexans LANmark-OF patchcords designed according to the "Cross-Over" wiring principle to improve field installation (A1-B2, B1-A2). This complies to the requirements of IEC 11801 and EN 50174-1:2009.

Characteristics

Construction characteristics	
Outer sheath	LSZH-FR
Connector type	Duplex LC-LC
Armour type	Aramid yarn
Fiber optic type	SingleMode 9/125
Dimensional characteristics	
Outer Diameter	2.6 mm
Transmission characteristics	
Return Loss, Minimum, dB	30 dB
Insertion Loss, maximum, dB	0.3 dB



Mechanical resistance to impacts (IEC 60794-1-E4)
10 impacts of 1 N.m



Minimum static operating bending radius
7.5 mm



Fire retardant
IEC 60332-1



Operating temperature, range
-20 .. 60 °C

LANmark-OF High Density Slimflex Patch Cord Duplex LC Singlemode



Mechanical characteristics



Maximum pulling force (IEC 60794-1-2-E1)	200 N
Crush resistance (IEC 60794-1-E3)	100 N/cm
Mechanical resistance to impacts (IEC 60794-1-E4)	10 impacts of 1 N.m

Usage characteristics

Minimum static operating bending radius	7.5 mm
Fire retardant	IEC 60332-1
Operating temperature, range	-20 .. 60 °C

Product List

Nexans ref.	Name	Colour
 N122.4CWY020	LANmark-OF High Density Slimflex Patch Cord Duplex LC SM LSZH 2m Yellow	Yellow
 N122.4CWYxxx	LANmark-OF High Density Slimflex Patch Cord Duplex LC SM LSZH xx.xm Yellow	Yellow

 = Make to order,  = In stock



Mechanical resistance to impacts (IEC 60794-1-E4)
10 impacts of 1 N.m



Minimum static operating bending radius
7.5 mm



Fire retardant
IEC 60332-1



Operating temperature, range
-20 .. 60 °C

LANmark-OF OM1 Patch Cords

- Optical fiber patch cords
- LANmark-OF OM1 performance
- For use in cabinets and workplaces

Description

Guarantees and installation

Nexans LANmark-OF optical fibre patch cords have been designed for indoor applications in support of high speed Ethernet protocols.

Details on the supported distances can be found in the LANmark-OF warranty modules.

Typical installation environments are:

- Cabinets to connect patch panels to active equipment.
- Cross connects in data centres.
- Suitable for use in the work area to connect the workstation to the wall outlet (Fibre To The Desk).

Characteristics

- Patch cord cable is according to IEC 60794-2-50
- Maximum insertion loss according to IEC 61300-3-4: 0.3 dB
- Typical insertion loss: 0.15 dB
- Minimum return loss according to IEC 61300-3-6: 30 dB
- Colour of Jacket: Orange
- LANmark-OF OM1 performance: compliant to IEC60793-2-50, subtype A1.3
- Duplex LC-LC, duplex LC-SC and duplex LC-ST patch cords have a duplex cable construction with a diameter of 2 X 2.0 mm.
- Duplex SC-SC, duplex SC-ST and duplex ST-ST patch cords have a duplex cable construction with a diameter of 2 X 2.8 mm.

Design

Nexans LANmark-OF patchcords designed according to the "Cross-Over" wiring principle to improve field installation (A1-B2, B1-A2). This conforms to the requirements of IEC 11801 and EN 50174-1:2009.



LANmark-OF

Standards

International ISO/IEC 11801

Characteristics

Construction characteristics

Armour type	Aramid yarn
Fiber optic type	OM1 62.5/125



Minimum static operating bending radius
40 mm



Fire retardant
IEC 60332-3 Cat.C



Operating temperature, range
-10 .. 50 °C

LANmark-OF OM1 Patch Cords

Construction characteristics

Colour	Orange
Outer sheath	LSZH-FR

Transmission characteristics

Return Loss, Minimum, dB	30 dB
Insertion Loss, maximum, dB	0.3 dB

Mechanical characteristics

Maximum pulling force (IEC 60794-1-2-E1)	200 N
Crush resistance (IEC 60794-1-E3)	250 N/cm

Usage characteristics

Minimum static operating bending radius	40 mm
Fire retardant	IEC 60332-3 Cat.C
Operating temperature, range	-10 .. 50 °C

Product List

☎ = Make to order, 📦 = In stock

Nexans ref.	Name	Connector type
📦 N123.0CLOX	LANmark-OF Patch Cord Multimode 62.5/125 OM1 2LC - 2SC LSZH Orange X m	Duplex SC-LC
📦 N123.0LTOX	LANmark-OF Patch Cord Multimode 62.5/125 OM1 2LC - 2ST LSZH Orange X m	Duplex LC-ST
📦 N123.0CCOX	LANmark-OF Patch Cord Multimode 62.5/125 OM1 2SC - 2SC LSZH Orange X m	Duplex SC-SC
📦 N123.0CTOX	LANmark-OF Patch Cord Multimode 62.5/125 OM1 2SC - 2ST LSZH Orange X m	Duplex SC-ST
📦 N123.0TTOX	LANmark-OF Patch Cord Multimode 62.5/125 OM1 2ST - 2ST LSZH Orange X m	Duplex ST-ST
📦 N123.0LLOX	LANmark-OF Patch cord Multimode 62.5/125 OM1 2LC - 2LC LSZH Orange X m	Duplex LC-LC

☎ = Make to order, 📦 = In stock


 Minimum static operating bending radius
 40 mm

 Fire retardant
 IEC 60332-3 Cat.C

 Operating temperature, range
 -10 .. 50 °C

LANmark-OF OM3 Patch Cords

- Optical fiber patch cords
- LANmark-OF OM3 performance
- For use in cabinets and workplaces

Description

Guarantees and installation

Nexans LANmark-OF optical fibre patch cords have been designed for indoor applications in support of high speed protocols.

High speed protocols supported include , but are not limited to

- Ethernet: 1GBase-SX, 10GBase-SR
- Fibre channel Serial: 4G, 8G and 16G

Details on the supported distances can be found in the LANmark-OF warranty modules.

Typical installation environments are:

- Cabinets to connect patch panels to active equipment.
- Cross connects in data centres.
- Suitable for use in the work area to connect the workstation to the wall outlet (Fibre To The Desk).

**LANmark-OF**

Characteristics

- Patch cord cable is according to IEC 60794-2-50
- Maximum insertion loss according to IEC 61300-3-4: 0.3 dB
- Typical insertion loss: 0.15 dB
- Minimum return loss according to IEC 61300-3-6: 30 dB
- Colour of Jacket: Aqua
- LANmark-OF OM3 performance: compliant to IEC60793-2-10, subtype A1a.2
- Duplex LC-LC, duplex LC-SC and duplex LC-ST patch cords have a duplex cable construction with a diameter of 2 X 2.0 mm.
- Duplex SC-SC, duplex SC-ST and duplex ST-ST patch cords have a duplex cable construction with a diameter of 2 X 2.8 mm.

Standards

International ISO/IEC 11801

Design

Nexans LANmark-OF patchcords designed according to the "Cross-Over" wiring principle to improve field installation (A1-B2, B1-A2). This conforms to the requirements of IEC 11801 and EN 50174-1:2009.



Minimum static operating bending radius
40 mm



Fire retardant
IEC 60332-3 Cat.C



Operating temperature, range
-10 .. 50 °C

LANmark-OF OM3 Patch Cords

Characteristics

Construction characteristics	
Armour type	Aramid yarn
Fiber optic type	OM3 50/125
Outer sheath	LSZH-FR
Transmission characteristics	
Return Loss, Minimum, dB	30 dB
Insertion Loss, maximum, dB	0.3 dB
Usage characteristics	
Minimum static operating bending radius	40 mm
Fire retardant	IEC 60332-3 Cat.C
Operating temperature, range	-10 .. 50 °C

Product List

☎=Make to order, 📦=In stock

Nexans ref.	Name	Colour	Connector type
☎ N123.5CLAX	LANmark-OF Patch Cord Multimode 50/125 OM3 2LC - 2SC LSZH Aqua X m	Aqua	Duplex SC-LC
☎ N123.5LTAX	LANmark-OF Patch Cord Multimode 50/125 OM3 2LC - 2ST LSZH Aqua X m	Aqua	Duplex LC-ST
☎ N123.5CCAX	LANmark-OF Patch Cord Multimode 50/125 OM3 2SC - 2SC LSZH Aqua X m	Aqua	Duplex SC-SC
☎ N123.5CTAX	LANmark-OF Patch Cord Multimode 50/125 OM3 2SC - 2ST LSZH Aqua X m	Aqua	Duplex SC-ST
☎ N123.5TTAX	LANmark-OF Patch Cord Multimode 50/125 OM3 2ST - 2ST LSZH Aqua X m	Aqua	Duplex ST-ST
☎ N123.5LLAX	LANmark-OF Patch cord Multimode 50/125 OM3 2LC - 2LC LSZH Aqua X m	Aqua	Duplex LC-LC

☎ = Make to order, 📦 = In stock


 Minimum static operating bending radius
 40 mm

 Fire retardant
 IEC 60332-3 Cat.C

 Operating temperature, range
 -10 .. 50 °C

LANmark-OF OM4 Patch Cords

- Optical fiber patch cords
- LANmark-OF OM4 performance
- For use in cabinets and workplaces

Description

Guarantees and installation

Nexans LANmark-OF optical fibre patch cords have been designed for indoor applications in support of high speed protocols.

High speed protocols supported include , but are not limited to

- Ethernet: 1GBase-SX, 10GBase-SR
- Fibre channel Serial: 4G, 8G and 16G

Details on the supported distances can be found in the LANmark-OF warranty modules.

Typical installation environments are:

- Cabinets to connect patch panels to active equipment.
- Cross connects in data centres.
- Suitable for use in the work area to connect the workstation to the wall outlet (Fibre To The Desk).

**LANmark-OF**

Characteristics

- Patch cord cable is according to IEC 60794-2-50
- Maximum insertion loss according to IEC 61300-3-4: 0.3 dB
- Typical insertion loss: 0.15 dB
- Minimum return loss according to IEC 61300-3-6: 30 dB
- Colour of Jacket: Aqua
- LANmark-OF OM4 performance: compliant to IEC60793-2-10, subtype A1a.3
- Duplex LC-LC, duplex LC-SC and duplex LC-ST patch cords have a duplex cable construction with a diameter of 2 X 2.0 mm.
- Duplex SC-SC, duplex SC-ST and duplex ST-ST patch cords have a duplex cable construction with a diameter of 2 X 2.8 mm.

Standards

International ISO/IEC 11801

Design

Nexans LANmark-OF patchcords designed according to the "Cross-Over" wiring principle to improve field installation (A1-B2, B1-A2). This conforms to the requirements of IEC 11801 and EN 50174-1:2009.



Operating temperature, range
-10 .. 50 °C

LANmark-OF OM4 Patch Cords

Characteristics

Construction characteristics	
Armour type	Aramid yarn
Fiber optic type	OM4 50/125
Outer sheath	LSZH-FR
Transmission characteristics	
Return Loss, Minimum, dB	30 dB
Insertion Loss, maximum, dB	0.3 dB
Mechanical characteristics	
Maximum pulling force (IEC 60794-1-2-E1)	200 N
Crush resistance (IEC 60794-1-E3)	100 N/cm
Usage characteristics	
Operating temperature, range	-10 .. 50 °C

Product List

☎=Make to order, 📦=In stock

Nexans ref.	Name	Minimum static operating bending radius (mm)	Colour	Connector type
☎ N123.7CLAX	LANmark-OF Patch Cord Multimode 50/125 OM4 2LC - 2SC LSZH Aqua X m	40	Aqua	Duplex SC-LC
☎ N123.7LTAX	LANmark-OF Patch Cord Multimode 50/125 OM4 2LC - 2ST LSZH Aqua X m	40	Aqua	Duplex LC-ST
☎ N123.7CCAX	LANmark-OF Patch Cord Multimode 50/125 OM4 2SC - 2SC LSZH Aqua X m	40	Aqua	Duplex SC-SC
☎ N123.7CTAX	LANmark-OF Patch Cord Multimode 50/125 OM4 2SC - 2ST LSZH Aqua X m	40	Aqua	Duplex SC-ST
☎ N123.7TTAX	LANmark-OF Patch Cord Multimode 50/125 OM4 2ST - 2ST LSZH Aqua X m	40	Aqua	Duplex ST-ST
☎ N123.7LLAX	LANmark-OF Patch cord Multimode 50/125 OM4 2LC - 2LC LSZH Aqua X m	40	Aqua	Duplex LC-LC

☎ = Make to order, 📦 = In stock



Operating temperature, range
-10 .. 50 °C

LANmark-OF Singlemode Patch Cords

- Optical fiber patch cords
- LANmark-OF singlemode performance
- For use in cabinets and workplaces

Description

Guarantees and installation

Nexans LANmark-OF optical fibre patch cords have been designed for indoor applications in support of high speed protocols.

High speed protocols supported include, but are not limited to

- Ethernet: 1GBase-SX, 10GBase-SR
- Fibre channel Serial: 4G, 8G and 16G

Details on the supported distances can be found in the LANmark-OF warranty modules.

Typical installation environments are:

- Cabinets to connect patch panels to active equipment.
- Cross connects in data centres.
- Suitable for use in the work area to connect the workstation to the wall outlet (Fibre To The Desk).

**LANmark-OF**

Standards

International ISO/IEC 11801

Characteristics

- Patch cord cable is according to IEC 60794-2-50
- Maximum insertion loss according to IEC 61300-3-4: 0.3 dB
- Typical insertion loss: 0.15 dB
- Minimum return loss according to IEC 61300-3-6: 40 dB
- Colour of Jacket: Yellow
- LANmark-OF Singlemode OS2 performance: compliant to IEC60793-2-50, subtype B1.3
- Duplex LC-LC, duplex LC-SC and duplex LC-ST patch cords have a duplex cable construction with a diameter of 2 X 2.0 mm.
- Duplex SC-SC, duplex SC-ST and duplex ST-ST patch cords have a duplex cable construction with a diameter of 2 X 2.8 mm.

Design

Nexans LANmark-OF patchcords designed according to the "Cross-Over" wiring principle to improve field installation (A1-B2, B1-A2). This conforms to the requirements of IEC 11801 and EN 50174-1:2009.









Operating temperature, range
-10 .. 50 °C



LANmark-OF Singlemode Patch Cords

Characteristics

Construction characteristics	
Armour type	Aramid yarn
Fiber optic type	SingleMode 9/125
Colour	Yellow
Outer sheath	LSZH-FR
Transmission characteristics	
Insertion Loss, maximum, dB	0.3 dB
Mechanical characteristics	
Maximum pulling force (IEC 60794-1-2-E1)	200 N
Usage characteristics	
Operating temperature, range	-10 .. 50 °C

Product List

Nexans ref.	Name	Minimum static operating bending radius (mm)	Connector type	Return Loss, Minimum, dB (dB)
 N123.4CLYX	LANmark-OF Patch Cord Singlemode 9/125 OS2 2LC - 2SC LSZH Yellow X m	40	Duplex SC-LC	40
 N123.4LTYX	LANmark-OF Patch Cord Singlemode 9/125 OS2 2LC - 2ST LSZH Yellow X m	40	Duplex LC-ST	40
 N123.4CCYX	LANmark-OF Patch Cord Singlemode 9/125 OS2 2SC - 2SC LSZH Yellow X m	40	Duplex SC-SC	40
 N123.4CTYX	LANmark-OF Patch Cord Singlemode 9/125 OS2 2SC - 2ST LSZH Yellow X m	40	Duplex SC-ST	40
 N123.4TTYX	LANmark-OF Patch Cord Singlemode 9/125 OS2 2ST - 2ST LSZH Yellow X m	40	Duplex ST-ST	40
 N123.4LLYX	LANmark-OF Patch cord Singlemode 9/125 OS2 2LC - 2LC LSZH Yellow X m	40	Duplex LC-LC	40

 = Make to order,  = In stock



Operating temperature, range
-10 .. 50 °C

LANmark-OF Slimflex Patch Cord Duplex LC OM3

- Optical fibre patch cords
- LANmark-OF OM3 performance
- For use in cabinets and workplaces
- Bend radius reduced to 7.5 mm
- GIGAliteFLEX bend insensitive fibre
- Round patch cord with uniboot design
- Reverse polarity uniboot connector

Description

Optimised for data centres environments

LANmark-OF Slimflex patch cords have a very small bend radius of 7.5 mm due to the use of advanced sheathing material and GIGAliteFLEX bend insensitive fibre.

The small bend radius of the patch cord is beneficial in high density patching areas where a lot of bends are common. There is a high risk that the larger bend radius (40 mm) of traditional patch cords is not maintained resulting in high attenuation and loss of transmission.

The round design of the Slimflex patch cord results in a small bend radius in any direction. Traditional patch cords based on a zipcord design have a bend radius that is dependent on the orientation.

The advanced sheathing material allows a very flexible patch cord without any memory or kink effect.

The advanced sheathing material has higher resistance to abrasion and cutting compared to traditional LSZH material. This results in reduced sheath damage when pinched between doors or around sharp bends.

With the round design of the patch cable the area required for the patch cord has also been reduced by 30 % resulting in space savings and reduced disturbance of the airflow for cooling.

For the support of the advanced high speed Ethernet protocols with stringent power budgets the Slimflex patch cord features a low loss performance of 0.3 dB. This increases the headroom in the channel and reduces the risk of down time.

The polarity of the Slimflex patch cord can be changed by opening the uniboot connector on one side and change the position of the 2 LC connectors. A black and red plastic square have been attached to the left and the right connector for identification. For standard optical crossed patch cord the black square is always on the same side on both ends of the patch cords. After switching the connectors on one side the patch cord becomes optical straight and can be used for some rare legacy applications that have a non-standard polarity.



LANmark-OF

Standards

International ISO/IEC 11801

Characteristics



Mechanical resistance to impacts (IEC 60794-1-E4)
10 impacts of 1 N.m



Minimum static operating bending radius
7.5 mm



Fire retardant
IEC 60332-1



Operating temperature, range
-20 .. 60 °C

LANmark-OF Slimflex Patch Cord Duplex LC OM3

- Patch cord cable is according to IEC 60794-2-50
- Maximum insertion loss according to IEC 61300-3-4: 0.3 dB
- Typical insertion loss: 0.15 dB
- Minimum return loss according to IEC 61300-3-6: 30 dB
- Color of Jacket: Aqua
- **GIGAliteFLEX** bend insensitive fibre
- LANmark-OF OM3 performance: compliant to IEC60793-2-10, subtype A1a.2

Guarantees and installation

Nexans LANmark-OF optical fibre patch cords have been designed for indoor applications in support of high speed protocols.

High speed protocols supported include, but are not limited to

- Ethernet: 1GBase-SX, 10GBase-SR
- Fibre channel Serial: 4G, 8G and 16G

Details on the supported distances can be found in the LANmark-OF warranty modules.

Typical installation environments are:

- Cabinets to connect patch panels to active equipment.
- Cross connects in data centres.
- Suitable for use in the work area to connect the workstation to the wall outlet (Fibre To The Desk).

Design

Nexans LANmark-OF patchcords designed according to the "Cross-Over" wiring principle to improve field installation (A1-B2, B1-A2). This complies to the requirements of IEC 11801 and EN 50174-1:2009.

Characteristics

Construction characteristics	
Outer sheath	LSZH-FR
Connector type	Duplex LC-LC
Armour type	Aramid yarn
Fiber optic type	OM3 50/125
Dimensional characteristics	
Outer Diameter	2.6 mm
Transmission characteristics	
Return Loss, Minimum, dB	30 dB
Insertion Loss, maximum, dB	0.3 dB
Mechanical characteristics	
Maximum pulling force (IEC 60794-1-2-E1)	200 N
Crush resistance (IEC 60794-1-E3)	100 N/cm



Mechanical resistance to impacts (IEC 60794-1-E4)
10 impacts of 1 N.m



Minimum static operating bending radius
7.5 mm



Fire retardant
IEC 60332-1



Operating temperature, range
-20 .. 60 °C

LANmark-OF Slimflex Patch Cord Duplex LC OM3

Mechanical characteristics

Mechanical resistance to impacts (IEC 60794-1-E4) 10 impacts of 1 N.m



Usage characteristics



Minimum static operating bending radius 7.5 mm

Fire retardant IEC 60332-1

Operating temperature, range -20 .. 60 °C

Product List

Nexans ref.	Name	Colour
 N122.5AWA020	LANmark-OF Slimflex Patch Cord Duplex LC OM3 LSZH 2m Aqua	Aqua
 N122.5AWAxxx	LANmark-OF Slimflex Patch Cord Duplex LC OM3 LSZH xx.xm Aqua	Aqua

 = Make to order,  = In stock



Mechanical resistance to impacts (IEC 60794-1-E4)
10 impacts of 1 N.m



Minimum static operating bending radius
7.5 mm



Fire retardant
IEC 60332-1



Operating temperature, range
-20 .. 60 °C

LANmark-OF Slimflex Patch Cord Duplex LC OM4

- Optical fibre patch cords
- LANmark-OF OM4 performance
- For use in cabinets and workplaces
- Bend radius reduced to 7.5 mm
- GIGAliteFLEX bend insensitive fibre
- Round patch cord with uniboot design
- Reverse polarity uniboot connector

Description

Optimised for data centres environments

LANmark-OF Slimflex patch cords have a very small bend radius of 7.5 mm due to the use of advanced sheathing material and GIGAliteFLEX bend insensitive fibre.

The small bend radius of the patch cord is beneficial in high density patching areas where a lot of bends are common. There is a high risk that the larger bend radius (40 mm) of traditional patch cords is not maintained resulting in high attenuation and loss of transmission.

The round design of the Slimflex patch cord results in a small bend radius in any direction. Traditional patch cords based on a zipcord design have a bend radius that is dependent on the orientation.

The advanced sheathing material allows a very flexible patch cord without any memory or kink effect.

The advanced sheathing material has higher resistance to abrasion and cutting compared to traditional LSZH material. This results in reduced sheath damage when pinched between doors or around sharp bends.

With the round design of the patch cable the area required for the patch cord has also been reduced by 30 % resulting in space savings and reduced disturbance of the airflow for cooling.

For the support of the advanced high speed Ethernet protocols with stringent power budgets the Slimflex patch cord features a low loss performance of 0.3 dB. This increases the headroom in the channel and reduces the risk of down time.

The polarity of the Slimflex patch cord can be changed by opening the uniboot connector on one side and change the position of the 2 LC connectors. A black and red plastic square have been attached to the left and the right connector for identification. For standard optical crossed patch cord the black square is always on the same side on both ends of the patch cords. After switching the connectors on one side the patch cord becomes optical straight and can be used for some rare legacy applications that have a non-standard polarity.



LANmark-OF

Standards

International ISO/IEC 11801

Characteristics



Mechanical resistance to impacts (IEC 60794-1-E4)
10 impacts of 1 N.m



Operating temperature, range
-20 .. 60 °C

LANmark-OF Slimflex Patch Cord Duplex LC OM4

- Patch cord cable is according to IEC 60794-2-50
- Maximum insertion loss according to IEC 61300-3-4: 0.3 dB
- Typical insertion loss: 0.15 dB
- Minimum return loss according to IEC 61300-3-6: 30 dB
- Color of Jacket: Aqua
- **GIGAliteFLEX** bend insensitive fibre
- LANmark-OF OM4 performance: compliant to IEC60793-2-10, subtype A1a.3

Guarantees and installation

Nexans LANmark-OF optical fibre patch cords have been designed for indoor applications in support of high speed protocols. High speed protocols supported include, but are not limited to

- Ethernet: 1GBase-SX, 10GBase-SR
- Fibre channel Serial: 4G, 8G and 16G

Details on the supported distances can be found in the LANmark-OF warranty modules.

Typical installation environments are:

- Cabinets to connect patch panels to active equipment.
- Cross connects in data centres.
- Suitable for use in the work area to connect the workstation to the wall outlet (Fibre To The Desk).

Design

Nexans LANmark-OF patchcords designed according to the "Cross-Over" wiring principle to improve field installation (A1-B2, B1-A2). This complies to the requirements of IEC 11801 and EN 50174-1:2009.

Characteristics

Construction characteristics	
Armour type	Aramid yarn
Fiber optic type	OM4 50/125
Outer sheath	LSZH-FR
Connector type	Duplex LC-LC
Transmission characteristics	
Return Loss, Minimum, dB	30 dB
Insertion Loss, maximum, dB	0.3 dB
Mechanical characteristics	
Mechanical resistance to impacts (IEC 60794-1-E4)	10 impacts of 1 N.m
Maximum pulling force (IEC 60794-1-2-E1)	200 N
Crush resistance (IEC 60794-1-E3)	100 N/cm



Mechanical resistance to impacts (IEC 60794-1-E4)
10 impacts of 1 N.m



Operating temperature, range
-20 .. 60 °C



LANmark-OF Slimflex Patch Cord Duplex LC OM4


Usage characteristics

Operating temperature, range

-20 .. 60 °C

Product List

Nexans ref.	Name	Outer Diameter (mm)	Minimum static operating bending radius (mm)	Colour
 N122.7AWA020	LANmark-OF Slimflex Patch Cord Duplex LC OM4 LSZH 2m Aqua	2.6	7.5	Aqua
 N122.7AWAxxx	LANmark-OF Slimflex Patch Cord Duplex LC OM4 LSZH xx.xm Aqua	2.6	7.5	Aqua

☎ = Make to order,  = In stock


 Mechanical resistance to impacts (IEC 60794-1-E4)
 10 impacts of 1 N.m

 Operating temperature, range
 -20 .. 60 °C

LANmark-OF Slimflex Patch Cord Duplex LC Singlemode

- Optical fibre patch cords
- LANmark-OF Singlemode performance
- For use in cabinets and workplaces
- Bend radius reduced to 7.5 mm
- GIGAliteFLEX bend insensitive fibre
- Round patch cord with uniboot design
- Reverse polarity uniboot connector

Description

Optimised for data centres environments

LANmark-OF Slimflex patch cords have a very small bend radius of 7.5 mm due to the use of advanced sheathing material and GIGAliteFLEX bend insensitive fibre.

The small bend radius of the patch cord is beneficial in high density patching areas where a lot of bends are common. There is a high risk that the larger bend radius (40 mm) of traditional patch cords is not maintained resulting in high attenuation and loss of transmission.

The round design of the Slimflex patch cord results in a small bend radius in any direction. Traditional patch cords based on a zipcord design have a bend radius that is dependent on the orientation.

The advanced sheathing material allows a very flexible patch cord without any memory or kink effect.

The advanced sheathing material has higher resistance to abrasion and cutting compared to traditional LSZH material. This results in reduced sheath damage when pinched between doors or around sharp bends.

With the round design of the patch cable the area required for the patch cord has also been reduced by 30 % resulting in space savings and reduced disturbance of the airflow for cooling.

For the support of the advanced high speed Ethernet protocols with stringent power budgets the Slimflex patch cord features a low loss performance of 0.3 dB. This increases the headroom in the channel and reduces the risk of down time.

The polarity of the Slimflex patch cord can be changed by opening the uniboot connector on one side and change the position of the 2 LC connectors. A black and red plastic square have been attached to the left and the right connector for identification. For standard optical crossed patch cord the black square is always on the same side on both ends of the patch cords. After switching the connectors on one side the patch cord becomes optical straight and can be used for some rare legacy applications that have a non-standard polarity.



LANmark-OF

Standards

International ISO/IEC 11801

Characteristics



Mechanical resistance to impacts (IEC 60794-1-E4)
10 impacts of 1 N.m



Minimum static operating bending radius
7.5 mm



Fire retardant
IEC 60332-1



Operating temperature, range
-20 .. 60 °C

LANmark-OF Slimflex Patch Cord Duplex LC Singlemode

- Patch cord cable is according to IEC 60794-2-50
- Maximum insertion loss according to IEC 61300-3-4: 0.3 dB
- Typical insertion loss: 0.15 dB
- Minimum return loss according to IEC 61300-3-6: 30 dB
- Color of Jacket: Yellow
- **GIGAliteFLEX** bend insensitive fibre
- LANmark-OF SM performance: compliant to IEC60793-2-50, subtype B6.a2, compatible with G652D

Guarantees and installation

Nexans LANmark-OF optical fibre patch cords have been designed for indoor applications in support of high speed protocols.

High speed protocols supported include, but are not limited to

- Ethernet: 1GBase-SX, 10GBase-SR
- Fibre channel Serial: 4G, 8G and 16G

Details on the supported distances can be found in the LANmark-OF warranty modules.

Typical installation environments are:

- Cabinets to connect patch panels to active equipment.
- Cross connects in data centres.
- Suitable for use in the work area to connect the workstation to the wall outlet (Fibre To The Desk).

Design

Nexans LANmark-OF patchcords designed according to the "Cross-Over" wiring principle to improve field installation (A1-B2, B1-A2). This complies to the requirements of IEC 11801 and EN 50174-1:2009.

Characteristics

Construction characteristics	
Armour type	Aramid yarn
Fiber optic type	SingleMode 9/125
Outer sheath	LSZH-FR
Connector type	Duplex LC-LC
Dimensional characteristics	
Outer Diameter	2.6 mm
Transmission characteristics	
Insertion Loss, maximum, dB	0.3 dB
Mechanical characteristics	
Mechanical resistance to impacts (IEC 60794-1-E4)	10 impacts of 1 N.m
Maximum pulling force (IEC 60794-1-2-E1)	200 N



Mechanical resistance to impacts (IEC 60794-1-E4)
10 impacts of 1 N.m



Minimum static operating bending radius
7.5 mm



Fire retardant
IEC 60332-1



Operating temperature, range
-20 .. 60 °C

LANmark-OF Slimflex Patch Cord Duplex LC Singlemode

Mechanical characteristics

Crush resistance (IEC 60794-1-E3) 100 N/cm



Usage characteristics


Minimum static operating bending radius 7.5 mm

Fire retardant IEC 60332-1

Operating temperature, range -20 .. 60 °C

Product List

Nexans ref.	Name	Colour	Return Loss, Minimum, dB (dB)
 N122.4AWY020	LANmark-OF Slimflex Patch Cord Duplex LC SM LSZH 2m Yellow	Yellow	30
 N122.4AWYxxx	LANmark-OF Slimflex Patch Cord Duplex LC SM LSZH xx.xm Yellow	Yellow	30

☎ = Make to order,  = In stock



Mechanical resistance to impacts (IEC 60794-1-E4)
10 impacts of 1 N.m



Minimum static operating bending radius
7.5 mm



Fire retardant
IEC 60332-1



Operating temperature, range
-20 .. 60 °C

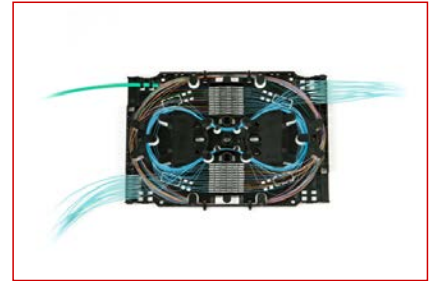
Pigtails & Splicing Materials

LANmark-OF Splicing Accessories with Aluminium Protectors Preloaded Sliding Panel

Description

Family Characteristics

- Family of patch panel accessories for termination of a cable with fusion splicing techniques.
- Provides management for cable and pigtails within the fibre patch panel.
- The cassette protects the fusion splices and holds them in position.
- The splice cassette can retain up to 24 fusion splices.
- Four trays can be stacked inside the patch panels resulting in a maximum capacity of 96 fusion splices in a patch panel.
- Splice cassettes are fixed to each other at the back of the cassettes with the provided hinges. This feature facilitates the inspection after installation since the cassettes can be lifted and tilted.
- The larger cassettes facilitates 2 rings of routing: an inner ring for the fibres of the pigtails and an outer ring for the fibres of the cable.
- Splicing with Aluminium protectors can be used for loose tube cables, i.e. fibres with a 250 um coating. Aluminium protectors can not be used with tight buffer cables, i.e. fibres with a 900 um coating.
- Splicing with Aluminium protectors can be used for maxistrap pigtails.
- LANmark-OF Bend Limiting Tube (N890.145) can be used to split up fibres of loose tube cable into different splice cassettes.
- These splice cassettes can be installed in the LANmark-OF and LANsense-OF sliding preloaded patch panels (N439.2B* and N883.2B*).



LANmark-OF

Standards

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

LANmark-OF Splicing Accessories with Aluminium Protectors

Preloaded Sliding Panel

N890.091: LANmark-OF Splice Cassette 24 Aluminium Protection Sliding Preloaded Panel

- Splice Cassette for management of splices with Aluminium protectors.
- Provides support for 2*12 splices with Aluminium protectors.
- Designed for use with loose tube cables (250 um coated fibres).
- Designed for use with maxistrip pigtails.



N890.003: LANmark-OF Fusion Splice Aluminium Protectors

- LANmark OF- accessories to complete the splicing system with Aluminium protectors
- 150 pieces per bag
- Length: 30 mm
- Compatible with loose tube cables (250 um coated fibres)
- Compatible with maxistrip pigtails
- Designed for Nexans' splice cassette for 24 Aluminium fusion splice protectors (N890.091)



N890.092: LANmark-OF Cover Splice Cassette Sliding Pre-loaded Panel

- LANmark-OF accessories to complete splice cassette system.
- LANmark-OF splice cassette cover compatible with N890.090 and N890.091.
- When the splice cassettes are stacked only the top splice cassette requires a cover.

LANmark-OF Splicing Accessories with Aluminium Protectors Preloaded Sliding Panel



N890.004: Tool for Aluminium Fusion Splice Protectors

- A crimp tool for easy installation of the Aluminium fusion splice protectors.
- Compatible with Nexans Aluminium fusion splice protector (N890.003).

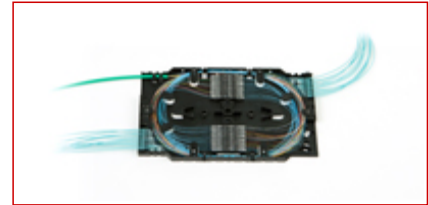


LANmark-OF Splicing Accessories with Aluminium Protectors Snap-In Panel

Description

Family Characteristics

- Family of patch panel accessories for termination of a cable with fusion splicing techniques.
- Provides management for cable and pigtails within the fibre patch panel.
- The cassette protects the fusion splices and holds them in position.
- The splice cassette can retain up to 24 fusion splices.
- Four trays can be stacked inside the patch panels resulting in a maximum capacity of 96 fusion splices in a patch panel.
- Splicing with Aluminium protectors can be used for loose tube cables, i.e. fibres with a 250 um coating. Aluminium protectors can not be used with tight buffer cables, i.e. fibres with a 900 um coating.
- Splicing with Aluminium protectors can be used for maxistrap pigtails.
- LANmark-OF Bend Limiting Tube (N890.145) can be used to split up fibres of loose tube cable into different splice cassettes.
- These splice cassettes can be installed in the LANmark-OF Snap-In Patch Panel (N441.203 and N441.204) and the LANmark-OF Zone Distribution Box (N521.630).



LANmark-OF

Standards

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

LANmark-OF Splicing Accessories with Aluminium Protectors

Snap-In Panel

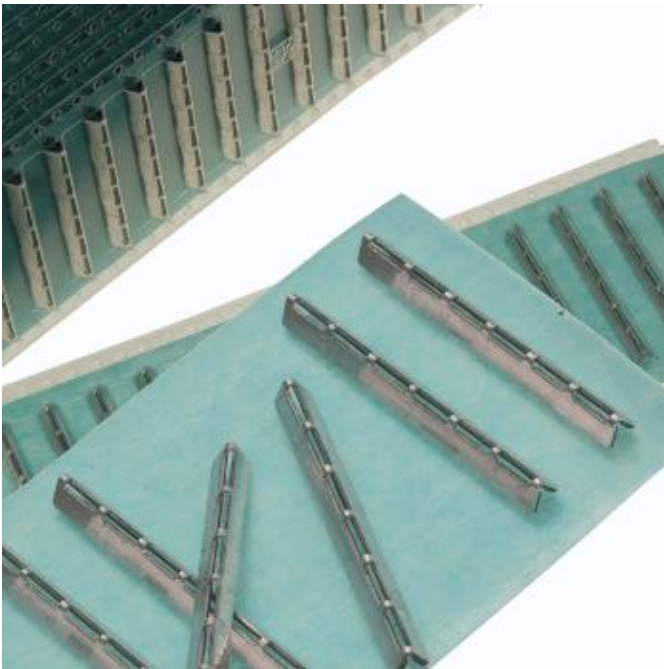
N890.096: LANmark-OF Splice Cassette 24 Aluminum Protectors Snap-In Panel

- Splice Cassette for management of splices with Aluminium protectors.
- Provides support for 2*12 splices with Aluminium protectors.
- Designed for use with loose tube cables (250 um coated fibres).
- Designed for use with maxistrip pigtailed.



N890.003: LANmark-OF Fusion Splice Aluminium Protectors

- LANmark OF- accessories to complete the splicing system with Aluminium protectors
- 150 pieces per bag
- Length: 30 mm
- Compatible with loose tube cables (250 um coated fibres)
- Compatible with maxistrip pigtailed
- Designed for Nexans' splice cassette for 24 Aluminium fusion splice protectors (N890.096)



N890.097: Cover for Splice Cassette Snap-In Panel

- LANmark-OF accessories to complete splice cassette system.
- LANmark-OF splice cassette cover compatible with N890.095 and N890.096.

LANmark-OF Splicing Accessories with Aluminium Protectors Snap-In Panel

- When the splice cassettes are stacked only the top splice cassette requires a cover.



N890.004: Tool for Aluminium Fusion Splice Protectors

- A crimp tool for easy installation of the Aluminium fusion splice protectors.
- Compatible with Nexans Aluminium fusion splice protector (N890.003).

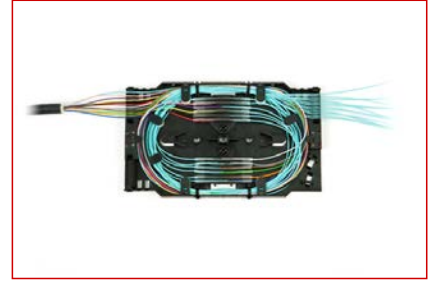


LANmark-OF Splicing Accessories with Heatshrink Protectors Preloaded Sliding Panel

Description

Family Characteristics

- Family of patch panel accessories for termination of a cable when using fusion splicing techniques.
- The cassette protects the fusion splices and holds them in position.
- The splice cassette can retain up to 12 fusion splices.
- Four trays can be stacked inside the patch panels resulting in a maximum capacity of 48 fusion splices in a patch panel.
- Splice cassettes are fixed to each other at the back of the cassettes with the provided hinges. This feature facilitates the inspection after installation since the cassettes can be lifted and tilted.
- The large cassettes facilitates 2 rings of routing: an inner ring for the fibres of the pigtails and an outer ring for the fibres of the cable.
- Splicing with heat shrink protectors can be used for both tight buffer and loose tube cables, i.e. heat shrink protectors are compatible with both 250 and 900 um coated fibres.
- Splicing with heat shrink protectors can be used for both maxistrap and tight buffer pigtails.
- LANmark-OF Bend Limiting Tube (N890.145) can be used to split up fibres of loose tube cable into different splice cassettes.
- These splice cassettes can be installed in the LANmark-OF and LANsense-OF sliding preloaded patch panels (N439.2B* and N883.2B*).

**LANmark-OF**

Standards

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

LANmark-OF Splicing Accessories with Heatshrink Protectors

Preloaded Sliding Panel

N890.090: LANmark-OF Splice Cassette 12 Heat Shrink Protection Sliding Preloaded Panel

- Splice cassette for management of splices with heat shrink protectors.
- Provides support for 2*6 heat shrink splice protectors.
- Designed for use with both loose tube and tight buffer cables, i.e. 250 and 900 um coated fibres.
- Designed for use with both maxistrap and tight buffer pigtails.



N890.021: LANmark-OF Fusion Splice Heat Shrink protectors (45mm)

- LANmark OF-accessories to complete the splicing system with heat shrink protectors
- 100 pieces per bag
- Length: 45mm
- Compatible with tight buffer or loose tube cables, i.e. 250 and 900 um coated fibres.
- Compatible with tight buffer and maxistrap pigtails
- Designed for Nexans' splice cassette for 12 heat shrink fusion splice protectors (N890.090)



N890.092: LANmark-OF Cover Splice Cassette Sliding Preloaded Panel

- LANmark-OF accessories to complete splice cassette system.
- LANmark-OF splice cassette cover compatible with N890.090 and N890.091.
- When the splice cassettes are stacked only the top splice cassette requires a cover.

LANmark-OF Splicing Accessories with Heatshrink Protectors Preloaded Sliding Panel

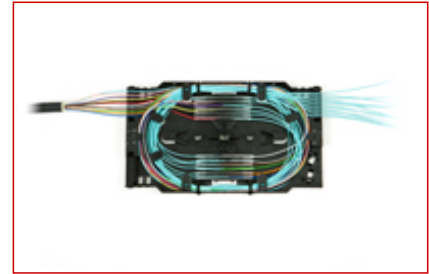


LANmark-OF Splicing Accessories with Heatshrink Protectors Snap-In Patch Panel

Description

Family Characteristics

- Family of patch panel accessories for termination of a cable when using fusion splicing techniques.
- The cassette protects the fusion splices and holds them in position.
- The splice cassette can retain up to 12 fusion splices.
- Four trays can be stacked inside the patch panels resulting in a maximum capacity of 48 fusion splices in a patch panel.
- Splicing with heat shrink protectors can be used for both tight buffer and loose tube cables, i.e. heat shrink protectors are compatible with both 250 and 900 um coated fibres.
- Splicing with heat shrink protectors can be used for both maxistrap and tight buffer pigtails.
- LANmark-OF Bend Limiting Tube (N890.145) can be used to split up fibres of loose tube cable into different splice cassettes.
- These splice cassettes can be installed in the LANmark-OF Snap-In Patch Panel (N441.203 and N441.204) and the LANmark-OF Zone Distribution Box (N521.630).



LANmark-OF

Standards

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

LANmark-OF Splicing Accessories with Heatshrink Protectors

Snap-In Patch Panel

N890.095: LANmark-OF Splice Cassette 12 Heat Shrink Protectors Snap-In Panel

- Splice cassette for management of splices with heat shrink protectors.
- Provides support for 2*6 heat shrink splice protectors.
- Designed for use with both loose tube and tight buffer cables, i.e. 250 and 900 um coated fibres.
- Designed for use with both maxistrap and tight buffer pigtails.



N890.021: LANmark-OF Fusion Splice Heat Shrink protectors (45mm)

- Lanmark OF-accessories to complete the splicing system with heat shrink protectors
- 100 pieces per bag
- Length: 45mm
- Compatible with tight buffer or loose tube cables, i.e. 250 and 900 um coated fibres.
- Compatible with tight buffer and maxistrap pigtails
- Designed for Nexans' splice cassette for 12 heat shrink fusion splice protectors (N890.095)



LANmark-OF Splicing Accessories with Heatshrink Protectors Snap-In Patch Panel

N890.097: Cover for Splice Cassette Snap-In Panel

- LANmark-OF accessories to complete splice cassette system.
- LANmark-OF splice cassette cover compatible with N890.095 and N890.096.
- When the splice cassettes are stacked only the top splice cassette requires a cover.

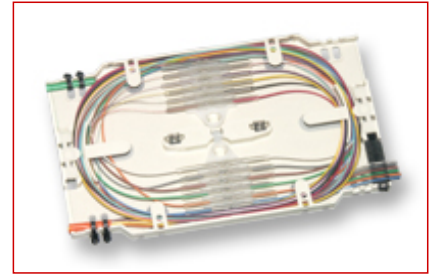


Contact

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

Splice Materials**Description**

A range of materials and accessories for splicing

**LANmark-OF****Standards**

International ISO/IEC 11801

Contact

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

Splice Materials

Product List

☎=Make to order, 📦=In stock

Nexans ref.	Name
📦 N890.145	LANmark-OF Bend Limiting Tube
📦 N890.044	Splitter tube

☎ = Make to order, 📦 = In stock

LANmark-OF Pigtails Maxistrip Set of 12 Colours

- Maxistrip pigtails for ease of splicing and high density
- Set of 12 pigtails with different colours
- Insertion loss per connection without splice: 0.3 dB maximum
- Factory terminated fibre assembly
- 100 % factory tested
- Compatible with LANmark-OF splice cassette with heat shrink or Aluminium protection.

Description

Pigtail set family characteristics

- Fibre assembly to terminate cable with fusion splicing
- Available with ST, SC and LC connectors
- Set of 12 pigtails with different colours
- Colours match fibre colours according to TIA/EIA-598-B
- Colours: Blue, Orange, Green, Brown, Grey, White, Red, Black, Yellow, Violet, Pink, Turquoise
- Suitable for use in patch panels using splice cassettes.
- The pigtails can be stripped in one action over a long distance of up to 1m.
- Insertion loss without splice: typical value is 0.1 dB, maximum value is 0.3 dB.

**LANmark-OF**

Fibre types

- Nexans LANmark-OF pigtails are available in all standardised optical fibre classes, multimode and singlemode.
- The OM3 version is designed to be used in a OM3 or a OM3xt compliant system and is backwards compliant with OM2 and OM2xt systems.
- The singlemode version is OS2 compliant with G652d fibre inside.
- The multimode versions can be used in laser optimised systems using the LANmark-OF xt cables.

Standards

International ISO/IEC 11801

Compatibility and installation practices

- Maxistrip pigtails are compatible with heat shrink splice cassettes (N890.090 and N890.095) with heat shrink protections (N890.021).
- Maxistrip pigtails are compatible with splice cassettes (N890.091 and N890.096) with Aluminium protections (N890.021).
- Maxistrip pigtails are recommended to be used with loose tube or Micro-Bundle cables, i.e. with 250 um fibres. When using tight buffer cables (900 um fibres) additional stress on the maxistrip pigtails should be limited as much as possible
- For proper alignment in the fusion splice tool the pigtail is fixed on the 250 um coating after stripping the 900 um coating. Fixing the pigtail on the 900 um coating will lead to improper alignment.
- In addition the pigtail needs to be stripped till the cladding around the splice area before insertion in the splice tool.

Guarantees

Nexans LANmark-OF pigtails are covered by Nexans warranty as described in the General Terms and Conditions

LANmark-OF Pigtails Maxistrip Set of 12 Colours

Optical performance pigtails

Fibre type	Connector	Polishing	Insertion loss max.	Return loss min.
Multimode	ST-SC-LC	PC	0,3 dB	> 30 dB
Singlemode	ST-SC-LC	PC	0.3 dB	> 40 dB
Singlemode	SC-LC	APC	0,3 dB	> 55 dB

Pigtail set maxistrip: available products

Fibre type	Connector	N-number	Description
SM	ST	N120.4MTS	LANmark-OF Pigtail ST Singlemode Maxistrip LSZH 9/125 1m 12 colours
	SC	N120.4MCS	LANmark-OF Pigtail SC Singlemode Maxistrip LSZH 9/125 1m 12 colours
	LC	N120.4MLS	LANmark-OF Pigtail LC Singlemode Maxistrip LSZH 9/125 1m 12 colours
OM3	ST	N120.5MTS	LANmark-OF Pigtail ST OM2/OM3 Maxistrip LSZH 50/125 1m 12 colours
	SC	N120.5MCS	LANmark-OF Pigtail SC OM2/OM3 Maxistrip LSZH 50/125 1m 12 colours
	LC	N120.5MLS	LANmark-OF Pigtail LC OM2/OM3 Maxistrip LSZH 50/125 1m 12 colours
OM4	ST	N120.7MTS	LANmark-OF Pigtail ST OM4 Maxistrip LSZH 50/125 1m 12 colours
	SC	N120.7MCS	LANmark-OF Pigtail SC OM4 Maxistrip LSZH 50/125 1m 12 colours
	LC	N120.7MLS	LANmark-OF Pigtail LC OM4 Maxistrip LSZH 50/125 1m 12 colours

LANmark-OF Pigtails Maxistrip

- Maxistrip pigtail for ease of splicing and high density
- Insertion loss per connection without splice: 0.3 dB maximum
- Factory terminated fibre assembly
- 100 % factory tested
- Compatible with LANmark-OF splice cassette with heat shrink or Aluminium protection.

Description

Pigtail family characteristics

- Fibre assembly to terminate cable with fusion splicing
- Available with ST, SC, LC and MTRJ connectors
- Suitable for use in patch panels using splice cassettes.
- The pigtails can be stripped in one action over a long distance of up to 1m.
- Insertion loss without splice: typical value is 0.1 dB, maximum value is 0.3 dB.

Fibre types

- Nexans LANmark-OF pigtails are available in all standardised optical fibre classes, multimode and singlemode.
- The MM50 version is designed to be used in a OM3 or a OM3xt compliant system and is backwards compliant with OM2 and OM2xt systems. The outer sheath for this type of pigtail is aqua.
- The MM62.5 version is designed for use in OM1 or OM1xt compliant systems. These pigtails are orange.
- The singlemode version is OS2 compliant with G652d fibre inside. These pigtails are yellow.
- The multimode versions can be used in laser optimised systems using the LANmark-OF xt cables.



LANmark-OF

Standards

International ISO/IEC 11801

Compatibility and installation practices

- Maxistrip pigtails are compatible with heat shrink splice cassettes (N890.090 and N890.095) with heat shrink protections (N890.021).
- Maxistrip pigtails are compatible with splice cassettes (N890.091 and N890.096) with Aluminium protections (N890.021).
- Maxistrip pigtails are recommended to be used with loose tube cables or Micro-Bundle cables, i.e. with 250 um fibres. When using tight buffer cables (900 um fibres) additional stress on the maxistrip pigtails should be limited as much as possible
- For proper alignment in the fusion splice tool the pigtail is fixed on the 250 um coating after stripping the 900 um coating. Fixing the pigtail on the 900 um coating will lead to improper alignment.
- In addition the pigtail needs to be stripped till the cladding around the splice area before insertion in the splice tool.

Guarantees

Nexans LANmark-OF pigtails are covered by Nexans warranty as described in the General Terms and Conditions

LANmark-OF Pigtails Maxistrip

Optical performance pigtails

Fibre type	Connector	Polishing	Insertion loss max.	Return loss min.
Multimode	ST-SC-LC	PC	0,3 dB	> 30 dB
Multimode	MT-RJ	PC	0,3 dB	NA
Singlemode	ST-SC-LC	PC	0.3 dB	> 40 dB
Singlemode	SC-LC	APC	0,3 dB	> 55 dB
Singlemode	MT-RJ	NA	NA	NA

Pigtails maxistrip: available products

Fibre type	Connector	N-number	Description
SM	ST	N123.4MTY	LANmark-OF Pigtail ST Singlemode Maxistrip LSZH 9/125 1m Yellow
	SC	N123.4MCY	LANmark-OF Pigtail SC Singlemode Maxistrip LSZH 9/125 1m Yellow
	LC	N123.4MLY	LANmark-OF Pigtail LC Singlemode Maxistrip LSZH 9/125 1m Yellow
SM APC	SC	N120.4MDY	LANmark-OF Pigtail SC SM APC Maxistrip LSZH 9/125 1m Yellow
	LC	N120.4MPY	LANmark-OF Pigtail LC SM APC Maxistrip LSZH 9/125 1m Yellow
OM1	MTRJ	N123.0MMO	LANmark-OF Pigtail MTRJ OM1 Maxistrip LSZH 62.5/125 1m Orange
	ST	N123.0MTO	LANmark-OF Pigtail ST OM1 Maxistrip LSZH 62.5/125 1m Orange
	SC	N123.0MCO	LANmark-OF Pigtail SC OM1 Maxistrip LSZH 62.5/125 1m Orange
	LC	N123.0MLO	LANmark-OF Pigtail LC OM1 Maxistrip LSZH 62.5/125 1m Orange
OM3	MTRJ	N123.5MMA	LANmark-OF Pigtail MTRJ OM2/OM3 Maxistrip LSZH 50/125 1m Aqua
	ST	N123.5MTA	LANmark-OF Pigtail ST OM2/OM3 Maxistrip LSZH 50/125 1m Aqua
	SC	N123.5MCA	LANmark-OF Pigtail SC OM2/OM3 Maxistrip LSZH 50/125 1m Aqua
	LC	N123.5MLA	LANmark-OF Pigtail LC OM2/OM3 Maxistrip LSZH 50/125 1m Aqua
OM4	MTRJ	N123.7MMA	LANmark-OF Pigtail MTRJ OM4 Maxistrip LSZH 50/125 1m Aqua
	ST	N120.7MTA	LANmark-OF Pigtail ST OM4 Maxistrip LSZH 50/125 1m Aqua
	SC	N120.7MCA	LANmark-OF Pigtail SC OM4 Maxistrip LSZH 50/125 1m Aqua
	LC	N120.7MLA	LANmark-OF Pigtail LC OM4 Maxistrip LSZH 50/125 1m Aqua

LANmark-OF Pigtails Tight Buffer 1m-2m

- Tight buffer pigtail for ease of splicing
- Insertion loss per connection without splice: 0.3 dB maximum
- Factory terminated fibre assembly
- 100 % factory tested
- Compatible with LANmark-OF splice cassette with heat shrink protection.

Description

Pigtail family characteristics

- Fibre assembly to terminate cable with fusion splicing
- Available with ST, SC, LC and MTRJ connectors
- Suitable for use in patch panels using splice cassettes.
- The pigtails can be stripped in one action over a distance of 1-2 cm.
- Insertion loss without splice: typical value is 0.1 dB, maximum value is 0.3 dB.

Fibre types

- Nexans LANmark-OF pigtails are available in all standardised optical fibre classes, multimode and singlemode.
- The MM50 version is designed to be used in a OM3 or a OM3xt compliant system and is backwards compliant with OM2 and OM2xt systems. The outer sheath for this type of pigtail is aqua.
- The MM62.5 version is designed for use in OM1 or OM1xt compliant systems. These pigtails are orange.
- The singlemode version is OS2 compliant with G652d fibre inside. These pigtails are yellow.
- The multimode versions can be used in laser optimised systems using the LANmark-OF xt cables.

Compatibility and installation practices

- Tight buffer pigtails are compatible with heat shrink splice cassettes (N890.090 and N890.095) with heat shrink protections (N890.021).
- Tight buffer pigtails are recommended to be used with tight buffer cables, i.e. with 900 um fibres. When using loose tube cables (250 um fibres) additional stress on the loose tube fibres should be limited as much as possible
- Around the splice area the pigtail needs to be stripped till the cladding before insertion in the splice tool.
- For proper alignment in the fusion splice tool the pigtail is fixed on the 900 um outer sheath. There is no need to strip the outer sheath of the pigtail on the place for fixation for getting a proper fixation.

Guarantees

Nexans LANmark-OF pigtails are covered by Nexans warranty as described in the General Terms and Conditions

**LANmark-OF**

Standards

International ISO/IEC 11801

LANmark-OF Pigtails Tight Buffer 1m-2m

Optical performance pigtails

Fibre type	Connector	Polishing	Insertion loss max.	Return loss min.
Multimode	ST-SC-LC	PC	0,3 dB	> 30 dB
Multimode	MT-RJ	PC	0,3 dB	NA
Singlemode	ST-SC-LC	PC	0.3 dB	> 40 dB
Singlemode	SC-LC	APC	0,3 dB	> 55 dB
Singlemode	MT-RJ	NA	NA	NA

Pigtails Tight Buffer: available products

N Number	Description
N123.4TLY	LANmark-OF Pigtail LC Singlemode Tight Buffer LSZH 9/125 1m Yellow
N120.4TLY2	LANmark-OF Pigtail LC Singlemode Tight Buffer LSZH 9/125 2m Yellow
N123.4TCY	LANmark-OF Pigtail SC Singlemode Tight Buffer LSZH 9/125 1m Yellow
N120.4TCY2	LANmark-OF Pigtail SC Singlemode Tight Buffer LSZH 9/125 2m Yellow
N123.5TLA	LANmark-OF Pigtail LC OM2/OM3 Tight Buffer LSZH 50/125 1m Aqua
N120.5TLA2	LANmark-OF Pigtail LC OM2/OM3 Tight Buffer LSZH 50/125 2m Aqua
N123.5TCA	LANmark-OF Pigtail SC OM2/OM3 Tight Buffer LSZH 50/125 1m Aqua
N120.5TCA2	LANmark-OF Pigtail SC OM2/OM3 Tight Buffer LSZH 50/125 2m Aqua
N120.7TLA	LANmark-OF Pigtail LC OM4 Tight Buffer LSZH 50/125 1m Aqua
N120.7TLA2	LANmark-OF Pigtail LC OM4 Tight Buffer LSZH 50/125 2m Aqua
N120.7TCA	LANmark-OF Pigtail SC OM4 Tight Buffer LSZH 50/125 1m Aqua
N120.7TCA2	LANmark-OF Pigtail SC OM4 Tight Buffer LSZH 50/125 2m Aqua

LANmark-OF Pigtailed Tight Buffer Set of 12 Colours

- Tight buffer pigtailed for ease of splicing
- Set of 12 pigtailed with different colours
- Insertion loss per connection without splice: 0.3 dB maximum
- Factory terminated fibre assembly
- 100 % factory tested
- Compatible with LANmark-OF splice cassette with heat shrink protection.

Description

Pigtail family characteristics

- Fibre assembly to terminate cable with fusion splicing
- Available with ST, SC and LC connectors
- Set of 12 pigtailed with different colours
- Colours match fibre colours according to TIA/EIA-598-B
- Colours: Blue, Orange, Green, Brown, Grey, White, Red, Black, Yellow, Violet, Pink, Aqua
- Suitable for use in patch panels using splice cassettes.
- The pigtailed can be stripped in one action over a distance of 1-2 cm.
- Insertion loss without splice: typical value is 0.1 dB, maximum value is 0.3 dB.

**LANmark-OF**

Fibre types

- Nexans LANmark-OF pigtailed are available in all standardised optical fibre classes, multimode and singlemode.
- The MM50 version is designed to be used in a OM3 or a OM3xt compliant system and is backwards compliant with OM2 and OM2xt systems.
- The singlemode version is OS2 compliant with G652d fibre inside.
- The multimode versions can be used in laser optimised systems using the LANmark-OF xt cables.

Standards

International ISO/IEC 11801

Compatibility and installation practices

- Tight buffer pigtailed are compatible with heat shrink splice cassettes (N890.090 and N890.095) with heat shrink protections (N890.021).
- Tight buffer pigtailed are recommended to be used with tight buffer cables, i.e. with 900 um fibres. When using loose tube cables (250 um fibres) additional stress on the loose tube fibres should be limited as much as possible
- Around the splice area the pigtail needs to be stripped till the cladding before insertion in the splice tool.
- For proper alignment in the fusion splice tool the pigtail is fixed on the 900 um outer sheath. There is no need to strip the outer sheath of the pigtail on the place for fixation for getting a proper fixation.

Guarantees

Nexans LANmark-OF pigtailed are covered by Nexans warranty as described in the General Terms and Conditions

LANmark-OF Pigtailed Tight Buffer Set of 12 Colours

Optical performance pigtailed

Fibre type	Connector	Polishing	Insertion loss max.	Return loss min.
Multimode	ST-SC-LC	PC	0,3 dB	> 30 dB
Singlemode	ST-SC-LC	PC	0.3 dB	> 40 dB
Singlemode	SC-LC	APC	0,3 dB	> 55 dB

Pigtail set Tight Buffer: available products

Fibre type	Connector	N-number	Description
SM	ST	N120.4TTS	LANmark-OF Pigtail ST Singlemode Tight Buffer LSZH 9/125 1m 12 colours
	SC	N120.4TCS	LANmark-OF Pigtail SC Singlemode Tight Buffer LSZH 9/125 1m 12 colours
	LC	N120.4TLS	LANmark-OF Pigtail LC Singlemode Tight Buffer LSZH 9/125 1m 12 colours
OM3	ST	N120.5TTS	LANmark-OF Pigtail ST OM2/OM3 Tight Buffer LSZH 50/125 1m 12 colours
	SC	N120.5TCS	LANmark-OF Pigtail SC OM2/OM3 Tight Buffer LSZH 50/125 1m 12 colours
	LC	N120.5TLS	LANmark-OF Pigtail LC OM2/OM3 Tight Buffer LSZH 50/125 1m 12 colours
OM4	ST	N120.7TTS	LANmark-OF Pigtail ST OM4 Tight Buffer LSZH 50/125 1m 12 colours
	SC	N120.7TCS	LANmark-OF Pigtail SC OM4 Tight Buffer LSZH 50/125 1m 12 colours
	LC	N120.7TLS	LANmark-OF Pigtail LC OM4 Tight Buffer LSZH 50/125 1m 12 colours

LANmark-OF Pigtails Tight Buffer

- Tight buffer pigtail for ease of splicing
- Insertion loss per connection without splice: 0.3 dB maximum
- Factory terminated fibre assembly
- 100 % factory tested
- Compatible with LANmark-OF splice cassette with heat shrink protection.

Description

Pigtail family characteristics

- Fibre assembly to terminate cable with fusion splicing
- Available with ST, SC, LC and MTRJ connectors
- Suitable for use in patch panels using splice cassettes.
- The pigtails can be stripped in one action over a distance of 1-2 cm.
- Insertion loss without splice: typical value is 0.1 dB, maximum value is 0.3 dB.

Fibre types

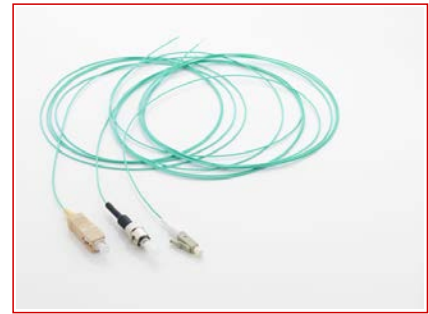
- Nexans LANmark-OF pigtails are available in all standardised optical fibre classes, multimode and singlemode.
- The MM50 version is designed to be used in a OM3 or a OM3xt compliant system and is backwards compliant with OM2 and OM2xt systems. The outer sheath for this type of pigtail is aqua.
- The MM62.5 version is designed for use in OM1 or OM1xt compliant systems. These pigtails are orange.
- The singlemode version is OS2 compliant with G652d fibre inside. These pigtails are yellow.
- The multimode versions can be used in laser optimised systems using the LANmark-OF xt cables.

Compatibility and installation practices

- Tight buffer pigtails are compatible with heat shrink splice cassettes (N890.090 and N890.095) with heat shrink protections (N890.021).
- Tight buffer pigtails are recommended to be used with tight buffer cables, i.e. with 900 um fibres. When using loose tube cables (250 um fibres) additional stress on the loose tube fibres should be limited as much as possible
- Around the splice area the pigtail needs to be stripped till the cladding before insertion in the splice tool.
- For proper alignment in the fusion splice tool the pigtail is fixed on the 900 um outer sheath. There is no need to strip the outer sheath of the pigtail on the place for fixation for getting a proper fixation.

Guarantees

Nexans LANmark-OF pigtails are covered by Nexans warranty as described in the General Terms and Conditions



LANmark-OF

Standards

International ISO/IEC 11801

LANmark-OF Pigtails Tight Buffer

Optical performance pigtails

Fibre type	Connector	Polishing	Insertion loss max.	Return loss min.
Multimode	ST-SC-LC	PC	0,3 dB	> 30 dB
Multimode	MT-RJ	PC	0,3 dB	NA
Singlemode	ST-SC-LC	PC	0.3 dB	> 40 dB
Singlemode	SC-LC	APC	0,3 dB	> 55 dB
Singlemode	MT-RJ	NA	NA	NA

Pigtails tight buffer: available products

Fibre type	Connector	N-number	Description
SM	ST	N123.4TTY	LANmark-OF Pigtail ST SM Tight Buffer LSZH 9/125 1m Yellow
	SC	N123.4TCY	LANmark-OF Pigtail SC SM Tight Buffer LSZH 9/125 1m Yellow
	LC	N123.4TLY	LANmark-OF Pigtail LC SM Tight Buffer LSZH 9/125 1m Yellow
SM APC	SC	N120.4TDY	LANmark-OF Pigtail SC SM APC Tight Buffered LSZH 9/125 1m Yellow
	LC	N120.4TPY	LANmark-OF Pigtail LC SM APC Tight Buffered LSZH 9/125 1m Yellow
OM1	MTRJ	N123.0TMO	LANmark-OF Pigtail MTRJ OM1 Tight Buffer LSZH 62.5/125 1m Orange
	ST	N123.0TTO	LANmark-OF Pigtail ST OM1 Tight Buffer LSZH 62.5/125 1m Orange
	SC	N123.0TCO	LANmark-OF Pigtail SC OM1 Tight Buffer LSZH 62.5/125 1m Orange
	LC	N123.0TLO	LANmark-OF Pigtail LC OM1 Tight Buffer LSZH 62.5/125 1m Orange
OM3	MTRJ	N123.5TMA	LANmark-OF Pigtail MTRJ OM2/OM3 Tight Buffer LSZH 50/125 1m Aqua
	ST	N123.5TTA	LANmark-OF Pigtail ST OM2/OM3 Tight Buffer LSZH 50/125 1m Aqua
	SC	N123.5TCA	LANmark-OF Pigtail SC OM2/OM3 Tight Buffer LSZH 50/125 1m Aqua
	LC	N123.5TLA	LANmark-OF Pigtail LC OM2/OM3 Tight Buffer LSZH 50/125 1m Aqua
OM4	MTRJ	N120.7TMA	LANmark-OF Pigtail MTRJ OM4 Tight Buffer LSZH 50/125 1m Aqua
	ST	N120.7TTA	LANmark-OF Pigtail ST OM4 Tight Buffer LSZH 50/125 1m Aqua
	SC	N120.7TCA	LANmark-OF Pigtail SC OM4 Tight Buffer LSZH 50/125 1m Aqua
	LC	N120.7TLA	LANmark-OF Pigtail LC OM4 Tight Buffer LSZH 50/125 1m Aqua

Adaptors

LANmark-OF Snap-In Adaptor

Description

LANmark-OF Snap-In adaptors have been designed for installation into the LANmark-OF snap-in panels, ZD boxes and outlets. They are available in single SC, duplex SC and duplex LC duplex. The multimode adaptors are aqua, the singlemode adaptors are blue while the singlemode APC adaptors are green. Installation time is saved as the snap-in concept replaces the time-consuming screwing attachment of the traditional adaptors.














LANmark-OF

Standards

International ISO/IEC 11801

Product List

Nexans ref.	Name	Connector type	Colour
 N205.617	LANmark-OF Duplex LC Snap-In Adaptor Multimode Aqua	LC	Aqua
 N205.627	LANmark-OF Duplex LC Snap-In Adaptor Singlemode	LC	Blue
 N205.628	LANmark-OF Duplex LC Snap-In Adaptor Singlemode APC	LC/APC	Green
 N205.619	LANmark-OF Duplex SC Snap-In Adaptor Multimode Aqua	SC	Aqua
 N205.624	LANmark-OF Duplex SC Snap-In Adaptor Singlemode	SC	Blue
 N205.625	LANmark-OF Duplex SC Snap-In Adaptor Singlemode APC	SC/APC	Green
 N205.618	LANmark-OF SC Snap-In Adaptor Multimode Aqua	SC	Aqua
 N205.623	LANmark-OF SC Snap-In Adaptor Singlemode	SC	Blue
 N205.626	LANmark-OF SC Snap-In Adaptor Singlemode APC	SC/APC	Green

 = Make to order,  = In stock

Contact

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

Standard Adaptors

Description

Standard format adaptors and couplers



LANmark-OF

Standards

International ISO/IEC 11801

Standard Adaptors

Product List

☎=Make to order, 📦=In stock

Nexans ref.	Name
📦 N205.127	Dual SC coupler MM
📦 N205.158	Dual SC coupler SM
📦 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
📦 N205.123	LANmark-OF adaptor Multimode ST-ST

☎ = Make to order, 📦 = In stock

Tools & Accessories

LANmark-OF Cleaning Tools





- Cleaning tools for cleaning fibre connector and adaptors
- Cleaning tools for single connectors:SC,ST and LC
- Cleaning tools for male and female array connectors



Description

Cleaning of fibre connectors and adaptors is extremely important to achieve optimal optical performance and low loss connectivity. The Nexans' cleaning tools allow cleaning unmated connectors and can also clean connectors that are installed in a patch panel. The cassette MPO cleaner allows cleaning effectively unmated male MPO connectors.



Product List

Nexans ref.	Name
 N890.122	LANmark-OF LC Cleaning Tool
 N890.125	LANmark-OF MPO Cassette Cleaning Tool
 N890.120	LANmark-OF MPO Cleaning Tool
 N890.121	LANmark-OF SC/ST Cleaning Tool

 = Make to order,  = In stock

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

☎=Make to order, 📦=In stock

Nexans ref.	Name
📦 N890.043	Cable gland for splitter tube
📦 N441.132	Essential-OF Blind face plate (For splitter)
📦 N890.147	LANmark-OF Cable gland 20mm
📦 N890.146	LANmark-OF Cable gland 25mm
📦 N890.170	LANmark-OF Mini RouteFloor 5mm
📦 N890.045	Microtube 0.9 mm

☎ = Make to order, 📦 = In stock

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



LANsense Software

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.

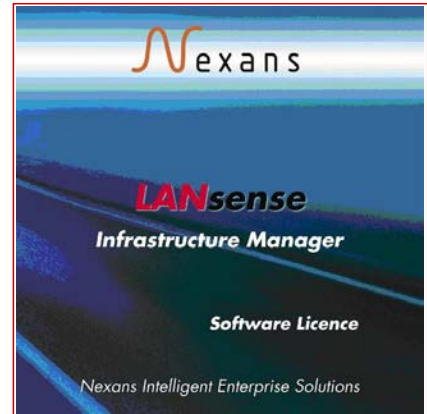
Benefits:

- 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.



LANsense™

Standards

International ISO/IEC 11801

LANsense EMAC Products

EMAC Products

Description

Corporate data centres are well known as significant power users, with a large sized data centre consuming similar amounts of power to an average sized town. As data centres today generate more heat output and often suffer from inadequate cooling, the need to operate efficiently and cost effectively against infrastructure and power constraints is increasing.

Obviously the greater capacity required, the greater impact on ensuring continuity of supply. Add to this, the escalating cost of energy, and the requirement for management information and control becomes evermore critical.

Nexans provides a range of standard intelligent power management capabilities, for both new and existing builds specified for both power monitoring only, or a combination of power monitoring with individual outlet control.

Defined upper and lower thresholds allow the client to differentiate between warning and critical status, generating various alarms and alerts, with appropriate escalation paths.

Aggregation of configuration information across data centre equipment, for intelligent monitoring and alarm processing, provides 'real time' identification of changes, scheduled polling and the ability to capture detailed data to produce highly sophisticated and graphical management information reports, enabling clients to perform trend analysis and risk management for mission critical services.

Status information can be gathered either locally or remotely via secure authenticated IP access (LDAP) monitoring RMS volts, amps, kVA, kWh, power factor and frequency.

Detailed values and management information across device location, power and cooling, network connectivity, asset application and customer information enable us to present analysis on current and historical trending. This trend analysis can be further utilised to help CIOs make informed decisions on capacity planning, risk analysis, performance benchmarking and policing service level agreements.

To optimise both power consumption and energy use, our intelligent offerings make it possible to meter actual power usage and produce trend data for any single or group of physical systems, enabling:

- Adequate capacity for existing & future needs
- Monitoring, measuring & reporting of power usage via multiple clients
- Billing stream capability for hosted clients
- Prevention of unauthorised use of power outlets / equipment deployment
- System load management (phase balancing, capacity planning etc)
- Recovery of locked servers via remote IP power cycling
- Alarming & trending of system, rack, powerstrip and outlet level overload conditions.

**LANsense™**

Standards

International Nexans specificationRoHS conform
Yes

LANsense EMAC Products

Characteristics

Usage characteristics

RoHS conform

Yes



RoHS conform
Yes

LANsense EMAC Products

Product List

☎ = Make to order, 📦 = In stock

Nexans ref.	Name
📦 N878.21220	LANsense Dual Supply Link Box 32A
📦 N878.32001	LANsense Humidity Sensor 2m
📦 N878.32002 New	LANsense Humidity Sensor RJ45
📦 N878.41004 New	LANsense Magnetic Door Sensor RJ45 4m
📦 N878.41001	LANsense Microswitch Door Sensor 4m
📦 N878.41003 New	LANsense Microswitch Door Sensor RJ45 2m
📦 N878.NIPM New	LANsense Non-Invasive Power Monitor
📦 N878.22110	LANsense PDU 32A 12x10A IEC C13 Horizontal
📦 N878.24210	LANsense PDU 32A 16x10A IEC C13 Monitor and Control
📦 N878.22210	LANsense PDU 32A 16x10A IEC C13 Vertical
📦 N878.22215	LANsense PDU 32A 24x10A IEC C13 Vertical
📦 N878.11002 New	LANsense Rack Manager II 6 Channel Autosensing
📦 N878.11003 New	LANsense Row Controller 12 Channel Autosensing
📦 N878.11004 New	LANsense Row Controller Expansion Module
📦 N878.31001	LANsense Temperature Sensor 2m
📦 N878.31002 New	LANsense Temperature Sensor RJ45 2m

☎ = Make to order, 📦 = In stock


 RoHS conform
 Yes

LANsense Sliding Fibre Panels

- Preloaded patch panels with adaptors for fast installation in data centres
- High density connectivity: up to 48 SC or 96 LC.
- Sliding and tilting patch panel for ease of installation, upgrade and maintenance
- Optimised for installation of Pre-Term with advanced fibre management features
- Improved splice cassettes with hinged trays for ease of installation and inspection
- Labelling facility for port identification and patch cord management within 1 U

Description

The new pre-loaded patch panel is specifically designed for installation in data centres where the high density, integrated patch cord guide and enhanced installation benefits of the patch panel meet the key requirements for implementation.

The patch panels are pre-loaded with SC or LC adaptors and are available in medium and high density versions. The medium density patch panel provides 24 SC or 48 LC connections, while the high density version has 48 SC or 96 LC connections. Singlemode and multimode versions are available.

The new patch cord guide sits in front of the adaptors and allows the patch cords to be managed within the same 1 U saving expensive rack space.

The patch cord guide also provides a labelling facility to identify connections. Additional labelling is provided by printed port numbers on the adaptor plate.

The newly developed chassis of the patch panel can be removed from the rack completely to ease installation of direct terminated or spliced fibre and faster installation of pre-terminated cables. The tray tilts and slides for improved access to the installed fibres for inspection.

The pre-loaded patch panel has extended cable management with multiple entries to provide maximum flexibility. It accommodates both cable glands and tie wraps for strain relief of the cables. The cable gland sizes are 20 mm (8x) and 25 mm (2x).

For improved fibre management the fibres can be arranged in 4 separate loops for added flexibility and organisation. The support bases and the rings for these 4 loops are included.

The patch panel chassis has multiple, specially designed, slots at the rear to fix the cable glands of Nexans' pre-terminated cables. There is ample space inside the patch panel to organise the flexible fan-out of the pre-terminated cables.

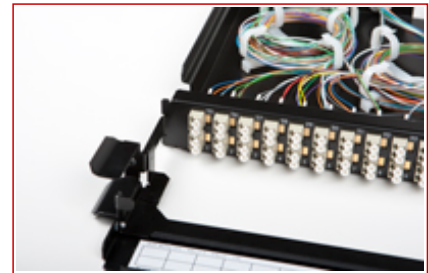
Up to 4 splice cassettes (N890.090 and N890.091) can be installed inside the tray of the patch panel. Only one cover (N890.093) is required to close the splice cassettes at the top. The bottom splice cassette is fixed with screws to the chassis of the patch panel. Splice cassettes are fixed with hinges to the cassette below and with such an installation the splice cassettes can be lifted and tilted for improved access to the splices inside the patch panel. This facilitates the inspection of the splices after installation.

Each splice cassette for heat shrink protectors (N890.090) can accommodate 12 splices allowing a maximum of 48 splices for the complete patch panel.

The splice cassette for aluminium protectors (N890.091) has a maximum of 24 splices resulting in a maximum of 96 splices per patch panel. N890.091 can only be used with maxistrip pigtailed cables with 250 um fibres.

Splice cassettes are not included in the patch panel.

The front adaptor plate can be fixed in a flush or recessed position in the rack using the adjustable side brackets. When the panel is installed recessed the distance between the rack vertical and the rear of the panel is 288 mm. The front cord management projection is 67 mm. When the panel is installed flush the distance between the rack vertical and the rear of the panel is 248 mm. The front cord management projection is 107 mm.



LANsense™

Standards

International ISO/IEC 11801

LANsense Sliding Fibre Panels

Panels are fully painted in black for a professional look and feel.

LANsense Copper Panels

- 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 Copper Panels





Characteristics



Usage characteristics

I/O Connector - Panel

Type 2

Product List

Nexans ref.	Name
 N881.671 New	LANsense Angled Panel 24 Snap-In Black
 N881.675 New	LANsense Angled Panel 24 Snap-In White
 N881.411 To be removed	LANsense Empty Sliding Patch Panel for 24 Snap-In connectors, Black
 N881.311 New	LANsense Panel 24 Snap-In Black

 = Make to order,  = In stock

LANsense Copper 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 latch protectors to allow differentiation of services and workgroups.



LANsense™

Standards

International EN 50265-2-1; ISO/
IEC 11801

National TIA/EIA-568-B.2

LANsense Copper Cords

Product List

☎=Make to order, 📦=In stock

Nexans ref.	Name	Category	Outer sheath	Length (m)	Colour
📦 N880.LPBLU New	LANsense Latch Protector Blue 50x	Cat. 5e	LSZH-FR		Blue
📦 N880.LPGRN New	LANsense Latch Protector Green 50x	Cat. 5e	LSZH-FR		Green
📦 N880.LPGRY New	LANsense Latch Protector Grey 50x	Cat. 5e	LSZH-FR		Grey
📦 N880.LPORA New	LANsense Latch Protector Orange 50x	Cat. 5e	LSZH-FR		Orange
📦 N880.LPRED New	LANsense Latch Protector Red 50x	Cat. 5e	LSZH-FR		Red
📦 N880.LPWHI New	LANsense Latch Protector White 50x	Cat. 5e	LSZH-FR		White
📦 N880.LPYEL New	LANsense Latch Protector Yellow 50x	Cat. 5e	LSZH-FR		Yellow
📦 N88A.P1F015OK New	LANsense Patch Cord Cat 6A LSZH Screened 1.5m Orange	Cat. 6a	LSZH	1.5	Orange
📦 N88A.P1F010OK New	LANsense Patch Cord Cat 6A LSZH Screened 1m Orange	Cat. 6a	LSZH	1	Orange
📦 N88A.P1F020OK New	LANsense Patch Cord Cat 6A LSZH Screened 2m Orange	Cat. 6a	LSZH	2	Orange
📦 N88A.P1F030OK New	LANsense Patch Cord Cat 6A LSZH Screened 3m Orange	Cat. 6a	LSZH	3	Orange
📦 N88A.P1F050OK New	LANsense Patch Cord Cat 6A LSZH Screened 5m Orange	Cat. 6a	LSZH	5	Orange
📦 N88A.P1F015OK	LANsense Patch Cord Cat6A LSZH Screened 1.5m Orange	Cat. 5e	LSZH-FR		
📦 N88A.P1F010OK	LANsense Patch Cord Cat6A LSZH Screened 1m Orange	Cat. 5e	LSZH-FR		
📦 N88A.P1F020OK	LANsense Patch Cord Cat6A LSZH Screened 2m Orange	Cat. 5e	LSZH-FR		

☎ = Make to order, 📦 = In stock

LANsense Fibre Panels

- LANsense IIM compatible
- 24, 48 or 96 fibre in 1HU versions
- Available for LC and SC 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 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 complementary 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

LANsense Fibre Panels

Product List

☞=Make to order, ☐=In stock

Nexans ref.	Name	I/O Connector - Panel	Connector type
☞ N883.131 To be removed	LANsense 24 SC Singlemode Patch Panel	Type 1	SC
☞ N883.221 To be removed	LANsense 48 Fibre LC Multimode Patch Panel	Type 2	LC
☞ N883.261 To be removed	LANsense 48 LC Multimode Patch Panel Black	Type 2	LC
☞ N883.133 To be removed	LANsense 48 SC Singlemode Patch Panel	Type 2	SC
☞ N883.223 To be removed	LANsense 96 LC Multimode Patch Panel	Type 2	LC
☞ N883.233 To be removed	LANsense 96 LC Singlemode Patch Panel	Type 2	LC
☞ N883.182 To be removed	LANsense Fibre Panel 24 SC Multimode Black	Type 2	SC
☞ N883.181 To be removed	LANsense Fibre Panel 24 SC Singlemode Black	Type 2	SC

☞ = Make to order, ☐ = In stock

LANsense 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 OM4 and single-mode OS2 fibre types and so offer a comprehensive range of patch cords for interfacing with the latest network equipment.

**LANsense™**

Standards

International ISO/IEC 11801

LANsense Fibre Patchcords

Product List

☎=Make to order, 📦=In stock

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
📦 N884.4LLY1	LC Duplex LANsense P/Cord 9/125 OS2 - 1m	1	LC
📦 N884.4LLY2	LC Duplex LANsense P/Cord 9/125 OS2 - 2m	1	LC
📦 N884.4LLY3	LC Duplex LANsense P/Cord 9/125 OS2 - 3m	3	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
📦 N884.4CCY1	SC Duplex LANsense P/Cord 9/125 OS2 - 1m	1	SC
📦 N884.4CCY2	SC Duplex LANsense P/Cord 9/125 OS2 - 2m	2	SC
📦 N884.4CCY3	SC Duplex LANsense P/Cord 9/125 OS2 - 3m	3	SC
📦 N884.4CCY5	SC Duplex LANsense P/Cord 9/125 OS2 - 5m	5	SC

☎ = Make to order, 📦 = In stock

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

☎=Make to order, 📦=In stock

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

☎ = Make to order, 📦 = In stock

LANsense NGA

- 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

LANsense NGA

Product List

☎=Make to order, 📦=In stock

Nexans ref.	Name
📦 N870.PEN New	LANsense Analyser Pen
📦 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.TERM New	LANsense NGA Terminator
📦 N870.UPP New	LANsense NGA USB Interface Adaptor

☎ = Make to order, 📦 = In stock

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

☎=Make to order, 📦=In stock

Nexans ref.	Name	Mat length (m)	I/O Connector - Panel	I/O Connector - Analyser
📦 LXWCCL160XOO	Analyser M/L Cord 16.0m	16	N/A	N/A
📦 LXWCCL030XOO	Analyser M/L Cord 3.0m	3	N/A	N/A
📦 LXWCCL040XOO	Analyser M/L Cord 4.0m	4	N/A	N/A
📦 LXWCCL080XOO	Analyser M/L Cord 8.0m	8	N/A	N/A
📦 196102-0019	I/O Cord 24 way - 1.9m	1.9	Type 2	Type A
📦 LXWCCP021A20	I/O Cord 24 way - 2.1m	2.1	Type 1	Type A
📦 196102-0028	I/O Cord 24 way - 2.8m	2.8	Type 2	Type A
📦 LXWCCP030A20	I/O Cord 24 way - 3.0m	3	Type 1	Type A
📦 196102-0040	I/O Cord 24 way - 4.0m	4	Type 2	Type A
📦 LXWCCP043A20	I/O Cord 24 way - 4.3m	4.3	Type 1	Type A
📦 N871.CIO0010 New	LANsense I/O Cable PVC Type C Rev 2 10m	10	Type 2	Type C
📦 N871.CIO003 New	LANsense I/O Cable PVC Type C Rev 2 3m	3	Type 2	Type C
📦 N871.CIO005 New	LANsense I/O Cable PVC Type C Rev 2 5m	5	Type 2	Type C
📦 N871.NIOH0010	Mark II I/O Cable 24 way - 1.0m	1	Type 2	Type B
📦 N871.NIOH0100	Mark II I/O Cable 24 way - 10.0m	10	Type 2	Type B
📦 N871.NIOH0020	Mark II I/O Cable 24 way - 2.0m	2	Type 2	Type B
📦 N871.NIOH0050	Mark II I/O Cable 24 way - 5.0m	5	Type 2	Type B
📦 N871.NIOHA2X12	Mark II I/O Cable Adaptor 12 way - 150mm	0.2	N/A	Type B

☎ = Make to order, 📦 = In stock

LANsense Integration Strips

- LANSense IIM compatible
- Integration Strips designed for specific equipment

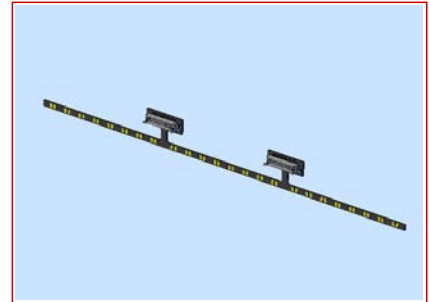
Description

LANSense Integration Strips are used to provide LANSense port detection functionality on non LANSense enabled products like switches in an interconnect environment.

They are used instead of a system side or port replication panel (used in a cross-connect environment) and allow LANSense cords to be connected directly into active equipment.

Integration strips are usually provided to fit 24 port devices but other port counts can be accommodated.

In order to create an Integration Strip a template is used to accurately communicate the dimensions and port layout of the device.



LANSense™

Standards

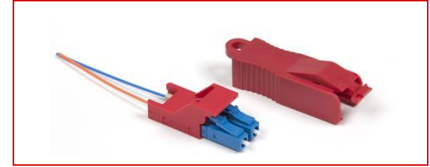
International Nexans specification

Secure IT Environment

Nexans is aware of the need to secure certain types of networks:

- military networking to prevent interconnection with secure systems
- health care where unauthorised disconnection is a potential life safety issue
- education where inquisitive young people may provide a “threat” to network integrity.

The Nexans secure IT environment products are designed to support all of these areas.



Secure Fibre Products

Secure Lock products are purpose designed to restrict the physical removal of patch cords for applications where security is paramount such as :

- Military
- Education
- Healthcare
- Data centres
- CCTV systems

The Secure Lock range from Nexans is compatible with standard fibre adaptors providing a significant advantage over systems which require a keyed adaptor.



Contact

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

Secure LC Keys

- Secure LC keys to unlock Secure LC cords and plugs
- Eight standard colours to match cords and plugs
- "Magic" purple administrator key unlocks all colours

Description

Secure Lock LC products are purpose designed for applications where security is paramount or the removal of patch cords is discouraged such as:

- Military
- Education
- Healthcare
- Data centres
- CCTV systems

The Secure Lock range from Nexans is compatible with STANDARD LC adaptors which is a significant advantage over systems which require a keyed adaptor. Eight coloured keys are available (Black, Red, Grey, Blue, Green, Yellow, Orange and White). There is also a "magic" purple administrator key which will unlock all colours.



LANmark-OF

Standards

International ISO/IEC 24764

Secure LC Plugs

- Secure LC plugs lock ports to prevent connection
- Eight colours available
- Matching keys to unlock

Description

Secure Lock LC products are purpose designed for applications where security is paramount or the removal of patch cords is discouraged such as:

- Military
- Education
- Healthcare
- Data centres
- CCTV systems

The Secure Lock range from Nexans is compatible with STANDARD LC adaptors which is a significant advantage over systems which require a keyed adaptor. Eight coloured boot options are available (Black, Red, Grey, Blue, Green, Yellow, Orange and White). Red booted plugs and Black booted plugs are available from stock. All other colours are made to order. The Secure Lock LC product set comprises:

- Patch cords – Singlemode OS2 (Yellow) and Multimode OM3 (Aqua)
- Coloured Keys to match the patch cord locking boots and the “magic” purple key which unlocks all colours.
- Port locking plugs
- An extension handle for “hard to reach” places
- Dust covers



LANmark-OF

Standards

International ISO/IEC 24764

Secure LC Cords

- OS2 and OM3 Variants
- Eight boot colours
- 1, 2, 3 & 5m Lengths
- Secure locking system

Description

Secure Lock LC cords are purpose designed for applications where security is paramount or the removal of patch cords is discouraged such as:

- Military
- Education
- Healthcare
- Data centres
- CCTV systems

The Secure Lock range from Nexans is compatible with STANDARD LC adaptors which is a significant advantage over systems which require a keyed adaptor. Eight coloured boot options are available (Black, Red, Grey, Blue, Green, Yellow, Orange and White). Red booted cords and Black booted cords are available from stock. All other colours are made to order. Patch cords are stocked in 1, 2, 3 and 5m lengths with other lengths available subject to an MOQ and lead time. The Secure Lock LC product set comprises:

- Patch cords – Singlemode OS2 (Yellow) and Multimode OM3 (Aqua)
- Coloured Keys to match the patch cord locking boots and the “magic” purple key which unlocks all colours.
- Port locking plugs
- An extension handle for “hard to reach” places
- Dust covers



LANmark-OF

Standards

International ISO/IEC 24764



Minimum static operating bending radius
30 mm



Operating temperature, range
0 .. 70 °C

Secure LC Cords

Characteristics

Dimensional characteristics

Outer Diameter	2.8 mm
----------------	--------

Transmission characteristics

Return Loss, Minimum, dB	30 dB
--------------------------	-------

Insertion Loss, maximum, dB	0.3 dB
-----------------------------	--------

Usage characteristics

Minimum static operating bending radius	30 mm
---	-------

Operating temperature, range	0 .. 70 °C
------------------------------	------------



Minimum static operating bending radius
30 mm



Operating temperature, range
0 .. 70 °C

Industrial LAN & Harsh Environments

Contact

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

Field Terminable Plugs

- Field terminable plugs for use with LANmark Industry and Maritime Cables

Description

LANmark field terminable plugs are specifically designed to provide a quick, simple and high quality method of termination on-site. They require no special tools and are compatible with all cables in the LANmark range.



LANmark
Industry

Standards

International EN 50173-3; ISO/
IEC 24702

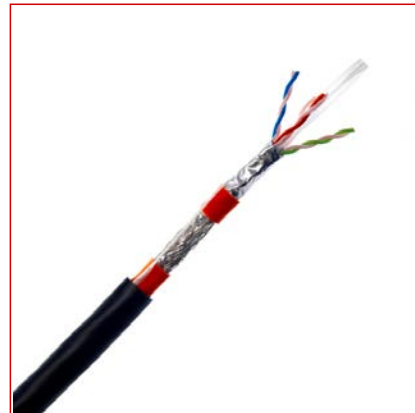
Contact

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

LANmark Industry Copper cables

Description

Copper cables for LANs in industrial and exposed areas.







LANmark
Industry

Standards

International ISO/IEC 11801; ISO/
IEC 24702

LANmark Industry Copper cables

Product List

Nexans ref.	Name
 N10i.002	LANmark Industry S/FTP AWG23 PUR black 500m reel
 N10i.005	LANmark Industry S/FTP Cat 6A AWG23 LSZH + PE black 500m reel
 N10i.004 To be removed	LANmark Industry SF/UTP AWG24 LSZH+PE black 500m reel
 N10i.101 New	LANmark Industry SF/UTP Cat 5E LSZH In & Out

☎ = Make to order, 📦 = In stock

Contact

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

LANmark Industry Optical Fibre cables

Description

Fibre optic cables for LANs in industrial and exposed areas.




LANmark
Industry



Standards

International ISO/IEC 11801; ISO/
IEC 24702

LANmark Industry Optical Fibre cables

Product List

Nexans ref.	Name
 N165.922	LANmark Industry TBX 6x multimode 50/125 OM3 PUR black

 = Make to order,  = In stock

Contact

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

LANmark Industry DIN-Rail Outlets and boxes

Description

DIN-Rail mount Outlets and boxes for LANs in industrial and exposed areas.



LANmark
Industry

Standards

International ISO/IEC 11801; ISO/
IEC 24702

Contact

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

LANmark Industry IP65/67 outlets

LANmark Industry IP67 outlets

Description

IP65/67 outlet for LANs in industrial and exposed areas.






LANmark
Industry



Standards

International ISO/IEC 11801; ISO/
IEC 24702

LANmark Industry IP65/67 outlets

Product List

Nexans ref.	Name
 N42i.001	LANmark Industry IP65/67 outlet kit 2 Snap-In Category 6 black
 N42i.002	LANmark Industry IP65/67 outlet kit 2 Snap-In Category 6A black
 N42i.003	LANmark Industry IP65/67 outlet kit 2 Snap-In Category 7A black

 = Make to order,  = In stock

Contact

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

LANmark Industry patch cord RJ45 IP67/IP20 Cat.6

Description

Patchcords IP67/IP20 for LANs in industrial and exposed areas.



LANmark
Industry

Standards

International ISO/IEC 11801; ISO/
IEC 24702

LANmark Industry patch cord RJ45 IP67/IP20 Cat.6

Product List

☎=Make to order, 📦=In stock

Nexans ref.	Name
📦 N10i.E64OJ	LANmark Industry patch cord RJ45 IP67 Single-end Category 6 screened PVC 10m Yellow
📦 N10i.E34DJ	LANmark Industry patch cord RJ45 IP67/IP20 Category 6 screened PVC 1.5m Yellow
📦 N10i.E34OJ	LANmark Industry patch cord RJ45 IP67/IP20 Category 6 screened PVC 10m Yellow
📦 N10i.E34FJ	LANmark Industry patch cord RJ45 IP67/IP20 Category 6 screened PVC 3m Yellow
📦 N10i.E34HJ	LANmark Industry patch cord RJ45 IP67/IP20 Category 6 screened PVC 5m Yellow

☎ = Make to order, 📦 = In stock

Contact

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

LANmark Maritime Copper cables

Description

Copper cables for LANs on vessels and sea moveable constructions.

The logo for LANmark Maritime, with 'LANmark' in red and 'Maritime' in blue, both in a bold, sans-serif font.**Standards**

International ISO/IEC 11801; ISO/
IEC 24702

General Accessories & Cabinets

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



Accessories for LANmark High-Density Racks and Frames

- Accessories for LANmark High-Density racks and frames

Description

Application

LANmark High-Density racks and frames have been designed to host busy Cross-Connects in data centres. Specific attention has been given to technical constraints of data centres such as cooling and space scarcity. Numerous features contribute to an optimal space utilisation and enable installation on busy data centre floors. These High-Density racks and frames enable excellent front, rear and lateral access. This is of great importance during installation but also during maintenance and upgrade operations. Proper management of large numbers of cords and securing clarity is critical for data centres management and reliability over the life time. Examples of equipment that can be hosted in LANmark High-Density rack and frames are given below:

- Angled panels and accessories
- High Density Fibre optic panels
- MPO panels
- LANsense - Intelligent patching
- Suitable for Cat.6A, 7 and 7A
- Suitable for OM3, OM4 and OS2
- future Cat 6A and Class EA applications
- EMAC - Environmental control

Performance

LANmark High-Density racks and frames have been designed to host all LANmark fibre optic and copper products.

Installation

LANmark High-Density racks and frames feature accessories and brackets enabling the installation in various configuration and location of a data centre. Please see the datasheet of the products for details.

Standards

International

Manufacturer specification

LANmark High-Density Racks and Frames for Data Centres

- 19-Inch mounting equipment for high-density cross-connect
- Ideal in Datacenters
- Designed to host both Copper and Fibre cabling
- Robust metal construction
- Enhanced access and cord management

Description

Application

The LANmark High-Density racks and frames have been designed to host busy Cross-Connects in data centres. Specific attention has been given to technical constraints of datacenters such as cooling and space scarcity. Numerous features contribute to an optimal space utilisation and enable installation on busy datacenter floors. These High-Density racks and frames enable excellent front, rear and lateral access. This is of great importance during installation but also during maintenance and upgrade operations. Proper management of large numbers of cords and securing clarity is critical for datacenters management and reliability over the life time. Examples of equipment that can be hosted in LANmark High-Density racks and frames are given below:

- Angled panels and accessories
- High Density Fibre optic panels
- MPO panels
- LANsense - Intelligent patching
- Suitable for Cat.6A, 7 and 7A
- Suitable for OM3, OM4 and OS2
- EMAC - Environmental control

Performance

LANmark High-Density racks and frames have been designed to host all LANmark fibre optic and copper products.

Installation




LANmark High-Density racks and frames feature accessories and brackets enabling the installation in various configuration and location of a datacenter. Please see the datasheet of the products for details.



Standards

International ISO/IEC 24764; ISO/
IEC 11801:2002/Amd 2:2010/
Cor 1:2010

LANmark High-Density Racks and Frames for Data Centres

Product List

Nexans ref.	Name
 N345.000 New	LANmark High-Density Cross-Connect Cabinet 42U - Basic
 N345.012 New	LANmark High-Density Cross-Connect Cabinet 42U - incl. Doors and Lateral Panels
 N345.400 New	LANmark Overhead Patching Frame 4U

 = Make to order,  = In stock

Selling information

Delivery info: Datacenter racks and frames

Patch Guides, Blank Panels & 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, Blank Panels & Cable Management

Product List

☎=Make to order, 📦=In stock

Nexans ref.	Name	Colour
📦 N109.207	1HU Blank Panel	White RAL 9002
📦 N109.207BK New	1HU Blank Panel, black	Black
📦 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
📦 N521.672 New	Angled Blank Panel Black	Black
📦 N521.673 New	Angled Panel Cover Black	Black
📦 N521.678 New	Angled Pass-Through Black	Black
📦 N424.512	Cable management plate for Essential Rear Connect Panels N424.xxx	Black
📦 N102.115BK	Letterbox Patch Guide 1HU Black	Black

☎ = Make to order, 📦 = In stock

LANmark Zone Distribution Boxes

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

Description

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

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

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



LANmark Zone Distribution Boxes

Characteristics

Construction characteristics

Material

Steel

Product List

☎=Make to order, 📦=In stock

Nexans ref.	Name	Number of ports	Width (mm)	Colour	Height (mm)
📦 N521.6121 New	LANmark Ruggedised Lockable ZD Box Foot White		253	White RAL 9002	35
📦 N521.612 New	LANmark Ruggedised Lockable ZD Box White	12	260	White RAL 9002	55
📦 N521.600	LANmark ZD box 12 Snap-In White	12	230	White RAL 9002	45
📦 N521.606 New	LANmark ZD box 6 Snap-In White	6	120	White RAL 9002	42

☎ = Make to order, 📦 = In stock

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

Product List

Nexans ref.	Name	Width (mm)	Depth (mm)	Approximate net weight (kg)
☒ N340.103	EXTENSION FOR QUICK MOUNT III 42HU 800x800	800	800	145.0
☒ N340.003	QUICK MOUNT III 42 HU 800x800	800	800	145.0

☒ = Make to order, ☒ = In stock

Cabinets - Wall Mountable

Cabinets and Enclosures

Wall Mountable

- 19" wallmount 18HU
- Easy installation

Description

19" wall mountable cabinet for locations where space is a premium suitable for copper or fibre accessories.

Features

- Hinged 2 parts design for easy access
- Extremely accessible swing frame design. (100mm for back part)
- Top and Bottom cable entry (150x56mm) equipped with sliding panels
- Same functionalities as full size cabinet : 19" mounting frame
- 40 kg balanced load
- Included a 1/1 scale template paper for screw hole preparation before installation
- Ideal for locations where space is at the premium
- Security with a lock on the front door
- Reversible and tinted safety glass mixed front door
- Dimensions : HxWxD 921mmx600mmx500mm
- Useful depth: 470mm



Standards


International
Manufacturer specification



Contact

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

Cabinets - Wall Mountable

Product List

Nexans ref.	Name
 N102.118	Wall Mount Cabinet 18 HU Mixed Door New Concept

 = Make to order,  = In stock

Contact

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

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

☎=Make to order, 📦=In stock

Nexans ref.	Name
📦 N108.109BK	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
📦 N333.165	4 x ADJUSTABLE FEET FOR QUICK-MOUNT
📦 N343.206	8xpatch ring
📦 N203.158	CLOSET DOC.HOLDER
📦 N203.156 To be removed	NEON LAMP FOR CABINETS
📦 N203.160	Power Bar 19 inch 1 HU 6 UTE outlet + autofuse
📦 N203.160A	Power Bar 19 inch 1 HU 6 schuko outlet + autofuse
📦 N203.165	Power Bar 19 inch 1.5U 6 UK outlet
📦 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
📦 N343.204	base for quick mount II & III
📦 N343.102	connection kit for quick mount II & III extension cabinet
📦 N343.201	front door for quick mount II & III
📦 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

☎ = Make to order, 📦 = In stock

Contact

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

Miscellaneous Accessories

Description

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

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

**Standards**

International ISO/IEC 11801

Miscellaneous Accessories

Product List

☎=Make to order, 📦=In stock

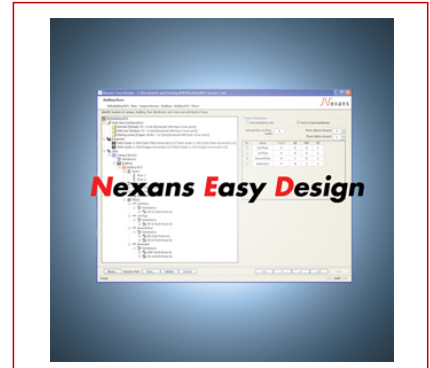
Nexans ref.	Name
📦 N420.655	LANmark Snap-In Blank White 24x
📦 N420.050	Dust cap for RJ45
☎ N420.655BK	LANmark Snap-In Blank Black 24x
📦 N108.111	Dzus quarter-turn fastener

☎ = Make to order, 📦 = In stock

Software, Training, & 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)
- LAN Calculation Toolkit

Description

Download Nexans support software:

- Nexans Visio Template (NVT) to create professional rack layout diagrams
- LAN Calculation Toolkit to assist in planning, design and installation

Both software tools are available free of charge. You will need to login or register on the website to download.



Standards



International
Manufacturer specification



Contact

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

Network Design Tools

Product List

Nexans ref.	Name
 Toolkit	LAN Calculation Toolkit
 NVT	Nexans Visio Template 3.2 with NVT 3D

 = Make to order,  = In stock

Contact

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

Training Services

Nexans Cabling Solutions has elaborated its training program.
Training is given at the Competence Centres in Brussels or Basingstoke, or on demand at your premises or in one of our regional Training Centres.

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 training has been divided into different modules to address 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.

see our section on TRAINING

UK Installer 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

Industrial and Office Switches

Based on more than 25 years of experience in the field of high-performance optical fiber networks, Nexans is offering state-of-the-art active Ethernet based switch systems for building networks (Fiber To The Office), energy and broadband networks (Smart Grids) and for harsh environment applications.

Fields of application includes the structured cabling based on fiber (Fiber To The Office), infrastructures for airports, the networking of transformer substations, the control of wind turbines and security (e. g. access control, video surveillance, etc.).

System groups:

- Fiber To The Office Systems (Snap In) with Power over Ethernet
- Fiber To The Office Systems (Snap In) without Power over Ethernet
- Fiber To The Office Systems (Desk Systems) with Power over Ethernet
- Systems for harsh environments (IEC61850-3 / -40°C ... +85°C)
- Systems for harsh environments (-25°C ... +70°C)



Contact

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

S-Series

Ethernet/Fast Ethernet/Gigabit Ethernet Switch System for Harsh Environment Applications.

Description**Standards****International**

Manufacturer specification

National Customer specification

Selling information

Ethernet/Fast Ethernet/Gigabit Ethernet Switch Systems for Harsh Environment Applications.

Contact

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

Active Ethernet Systems for Harsh Environments (IEC61850-3/-40 ...+85°C)

Ethernet/Fast Ethernet/Gigabit Ethernet Switch System for Harsh Environment Applications.

Description**Standards****International**

Manufacturer specification

National Customer specification

Selling information

Ethernet/Fast Ethernet/Gigabit Ethernet Switch Systems for Harsh Environment Applications.

FTTD/FTTO Desk Systems

The active system technology from Nexans allows you to network your offices cost-effectively and securely by using optical fibres.

These intelligent, manageable FiberTo The Desk/Fiber To The Office (FTTO) desk switch systems features up to two SFP interfaces which allows connection lengths of 550 metres and more to be bridged effortlessly. This does away with the need for floor distributors in order to network the building.

PCs, notebooks and IP telephones can be connected directly to the FTTO switch system via the standard twisted pair interfaces in Gigabit Ethernet technology, or even be powered by the system if necessary.

Description

Power Source Equipment (PSE+)

Thanks to the implemented Powerover-Ethernet (PoE+) functionalities e.g. VoIP-Phones, Wireless-Access-Points and IP-Cameras can be supplied with power according to IEEE802.3at from the switch directly.

10/100/1000 Mbps user ports with Energy Efficient Ethernet (EEE)

The key feature of the GigaSwitch series is support for Energy Efficient Ethernet (EEE) which is standardized as the 802.3az standard. All Twisted Pair Ports are Energy Efficient Ethernet compliant and automatically shutting down the ports in case of shut down or reducing of Ethernet traffic. The Network can benefit from lower power consumption, which reduces energy costs and lowers overall operating costs for IT equipment.

Memory Card

The optional Memory Card always stores the complete and most actual configuration of the switch automatically. In case of a system exchange you just need to take out the Memory Card of the old switch and insert it into the new switch. During the boot process the new switch will then take over the old configuration from the Memory Card. Furthermore each Memory Card has got its own MAC Address. As soon as a Memory Card is inserted into a system, the active MAC address is the MAC Address of the Memory Card, i.e. there is no need to change routing tables in case of a system exchange!

Management

The management provides a simple and secure configuration from a central location. Rapid Spanning Tree, Radius, prioritization, LLDP, IGMP, CDP, diagnostic functions and SNMP traps are some of the implemented features.



Standards

International

Manufacturer specification

National Customer specification

Contact

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

FTTO MicroSwitch Systems (Accessories)

Description

Accessories

Standards**International**

Manufacturer specification

National Customer specification

FTTO Microswitch Systems (230VAC) Gigabit Ethernet, managed

The active system technology from Nexans allows you to network your offices cost-effectively and securely by using optical fibres.

These intelligent, manageable Fiber To The Office (FTTO) switch systems can be installed in cable duct systems, floor boxes or communication pillars. The rear side of the system features up to two SFP interfaces which allows connection lengths of 550 metres and more to be bridged effortlessly. This does away with the need for floor distributors in order to network the building.

PCs, notebooks and IP telephones can be connected directly to the FTTO switch system via the standard twisted pair interfaces in Gigabit Ethernet technology.

Description

Snap-In Installation

The very compact design of this switch allows a snap-in installation (no tools needed) in standard 45 mm cable duct systems or floor boxes without special mounting frames!

Memory Card

The optional Memory Card always stores the complete and most actual configuration of the switch automatically. In case of a system exchange you just need to take out the Memory Card of the old switch and insert it into the new switch. During the boot process the new switch will then take over the old configuration from the Memory Card. Furthermore each Memory Card has got its own MAC Address. As soon as a Memory Card is inserted into a system, the active MAC address is the MAC Address of the Memory Card, i.e. there is no need to change routing tables in case of a system exchange!

Management

The management provides a simple and secure configuration from a central location. Rapid Spanning Tree, Radius, prioritization, LLDP, IGMP, CDP, diagnostic functions and SNMP traps are some of the implemented features.



Standards

International

Manufacturer specification

National Customer specification

FTTO Microswitch Systems (48VDC), Gigabit Ethernet, managed, Power over Ethernet (PoE+)

The active system technology from Nexans allows you to network your offices cost-effectively and securely by using optical fibres.

These intelligent, manageable Fiber To The Office (FTTO) switch systems can be installed in cable duct systems, floor boxes or communication pillars. The rear side of the system features up to two SFP interfaces which allows connection lengths of 550 metres and more to be bridged effortlessly. This does away with the need for floor distributors in order to network the building.

PCs, notebooks and IP telephones can be connected directly to the FTTO switch system via the standard twisted pair interfaces in Gigabit Ethernet technology, or even be powered by the system if necessary.

Description

Snap-In Installation

The very compact design of this switch allows a snap-in installation (no tools needed) in standard 45 mm cable duct systems or floor boxes without special mounting frames!

Power Source Equipment (PSE+)

Thanks to the implemented Powerover-Ethernet (PoE+) functionalities e.g. VoIP-Phones, Wireless-Access-Points and IP-Cameras can be supplied with power according to IEEE802.3at from the switch directly.

Memory Card

The optional Memory Card always stores the complete and most actual configuration of the switch automatically. In case of a system exchange you just need to take out the Memory Card of the old switch and insert it into the new switch. During the boot process the new switch will then take over the old configuration from the Memory Card. Furthermore each Memory Card has got its own MAC Address. As soon as a Memory Card is inserted into a system, the active MAC address is the MAC Address of the Memory Card, i.e. there is no need to change routing tables in case of a system exchange!

Management

The management provides a simple and secure configuration from a central location. Rapid Spanning Tree, Radius, prioritization, LLDP, IGMP, CDP, diagnostic functions and SNMP traps are some of the implemented features.



Standards

International

Manufacturer specification

National Customer specification

SFP Transceiver 100 Mbps

Description

- Fast Ethernet
- Duplex LC-Connector
- Hot-swap pluggable capability
- Digital diagnostic monitoring
- Wide industrial operating temperature range (-40°C up to +85°C)

Nexans SFP transceiver is a plug-in module. The SFP stands for Small Form Factor Pluggable and allows for seamless integration of fiber with copper networks. The Nexans devices with SFP capability are economical, offer flexibility and reduce the problems when the users need to change or up-grade fiber based connections.

The Nexans next generation of SFPs also supports digital optical monitoring functions according to the standard SFF-8472 and multisource agreement. These features give the users the ability to monitor real-time parameters of the SFP module. By using SFP modules with Digital Diagnostic Monitoring function in our Nexans systems users are able to monitor the optical parameters such as optical input power, optical output power, transceiver supply voltage and laser bias current, and to recognize upcoming problems with the fiber optic link at an early stage!



Standards

International

Manufacturer specification

National Customer specification

SFP Transceiver 1000 Mbps

Description

- Gigabit Ethernet
- Fiber: Duplex LC or Simplex SC-Connector
- Twisted Pair: RJ45-Interface
- Hot-swap pluggable capability
- Digital diagnostic monitoring
- Wide industrial operating temperature range (-40°C up to +85°C)

Nexans SFP transceiver is a plug-in module. The SFP stands for Small Form Factor Pluggable and allows for seamless integration of fiber with copper networks. The Nexans devices with SFP capability are economical, offer flexibility and reduce the problems when the users need to change or up-grade fiber based connections.

The Nexans next generation of SFPs also supports digital optical monitoring functions according to the standard SFF-8472 and multisource agreement. These features give the users the ability to monitor real-time parameters of the SFP module. By using SFP modules with Digital Diagnostic Monitoring function in our Nexans systems users are able to monitor the optical parameters such as optical input power, optical output power, transceiver supply voltage and laser bias current, and to recognize upcoming problems with the fiber optic link at an early stage!





Global expert in cables and cabling systems

Distributed by :