

# LANmark-5 Cable

LANmark-5 F1/UTP LSZH 305m Box

Contact

sales

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**Nexans Ref.:** N100.491

- 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



Ambient installation T°  
C range  
-10 - 50 °C



Operating temp.  
range  
-20 - 60 °C



Storage temperature,  
range  
-20 - 70 °C



Flame retardant  
IEC 60332-1



Smoke density  
IEC 61034



Gases toxicity  
IEC 60754



RoHS compliant  
Yes

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

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## CHARACTERISTICS

### Construction characteristics

Type of cable	F/UTP
Outer sheath	LSZH
Colour	Orange

### Dimensional characteristics

Approximate weight	45 kg/km
Conductor cross-section (AWG/KCMIL)	24
Diameter over insulation	1.04 mm
External dimensions	-
Nominal outer diameter	6.2 mm

### Electrical characteristics

Characteristic impedance	100 Ohm
Max. DC resistance of the conductor at 20°C	95 Ohm/km
Transfer impedance	20

### Transmission characteristics

Coupling attenuation at 30 MHz	>70 dB
Nominal Velocity of Propagation (NVP)	73 %
Propagation delay, max. 100 MHz	536 ns/100m
Skew	45 ns/100m

### Mechanical characteristics

Maximum operating pulling force	100 N
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### Usage characteristics

Category	Cat. 5e
Range	LANmark-5
Minimum Bend Radius - During Installation (under Tension)	50 mm
Minimum Bend Radius - Installed	25 mm
Ambient installation temperature, range	-10 - 50 °C
Operating temperature, range	-20 - 60 °C
Storage temperature, range	-20 - 70 °C
Fire load	510 MJ/km
Flame retardant	IEC 60332-1
Smoke density	IEC 61034
Gases toxicity	IEC 60754
Length	305 m
Packaging	Box
RoHS compliant	Yes

## SELLING AND DELIVERY INFORMATION

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

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