

LANmark-6 Cable

LANmark-6 U/UTP LSZH 305m reel in box

Nexans Ref.: N100.604

- Comply with all Category 6 cable standards
- Support 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 a central PE cross which helps maintaining the stability of the cable geometry and reduces the risk of a reduction in performance when bending the cable.

The cables are available with Orange LSZH sheath compliance to 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.

Guarantees

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



You may see a combination of brands on documents or products during the transition.

STANDARDS

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

National ANSI/TIA-568-C.2



Ambient installation T°C range
-10 ... 60 °C



Operating temp.
-20 ... 60 °C



Flame retardant
IEC 60332-1



Fire retardant



Smoke density
IEC 61034

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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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.

CHARACTERISTICS

Construction characteristics

Type of cable	U/UTP
Outer sheath	LSZH
Colour	Orange
Screen	Unshielded

Dimensional characteristics

Diameter over insulation	1.02 mm
Conductor cross-section (AWG/KCMIL)	23
Nominal outer diameter	6.2 mm

Electrical characteristics

Characteristic impedance	100 Ohm
Max. DC resistance of the conductor at 20°C	85 Ohm/km
Mutual capacitance	56 nF/km

Transmission characteristics

Attenuation Crosstalk Ratio, 250MHz	5.5 dB/100m
Coupling attenuation at 30 MHz	
Nominal Velocity of Propagation (NVP)	69 %
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. 6
Range	LANmark-6
Minimum Bend Radius - During Installation (under Tension)	50 mm
Minimum Bend Radius - Installed	25 mm
Ambient installation temperature, range	-10 ... 60 °C
Operating temperature, range	-20 ... 60 °C



Ambient installation T°C range
-10 ... 60 °C



Operating temp.
-20 ... 60 °C



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Usage characteristics

Flame retardant	IEC 60332-1
Fire retardant	
Smoke density	IEC 61034
Packaging	Reel in a box

POE+ RATINGS

- PSE Current (A) : Type 1: 0.35 A - Type 2: 0.6 A
- PSE Voltage (Vdc): Type 1: 44-57 Vdc - Type 2: 50-57 Vdc
- PD Current (A) : Type 1: 0.35 A - Type 2: 0.6 A
- PD Voltage (Vdc): Type 1: 37-57 Vdc - Type 2: 47-57 Vdc
- Power : 25.5 W

Type 1 devices with low power consumption / Type 2 devices with high power consumption



Ambient installation T°C range
-10 ... 60 °C



Operating temp.
-20 ... 60 °C



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Fire retardant



Smoke density
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