

LANmark-5 U/UTP Cable

LANmark-5 U/UTP AWG24 Cat 5e 155MHz LSZH Eca Orange 305m box

Nexans Ref.: N100.507-OE

- 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

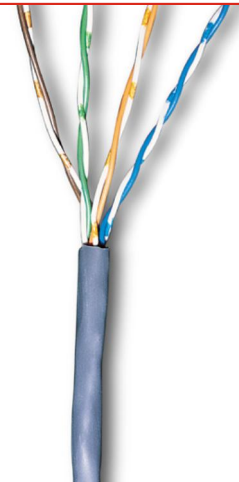
To support the correct set-up of hand held analysers for installation testing, the actual cable NVP value is given in the cable's print legend.

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

DECLARATION OF PERFORMANCE

Eca

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.
-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.

Generated 24.11.21 datanetworks.nexans.com Page 1 / 2

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CHARACTERISTICS

Construction characteristics

| | |
|---------------|--------|
| Type of cable | U/UTP |
| Outer sheath | LSZH |
| Colour | Orange |

Dimensional characteristics

| | |
|-------------------------------|----------|
| Approximate weight | 30 kg/km |
| Conductor cross-section (AWG) | 24 |
| Diameter over insulation | 0,9 mm |
| External dimensions | - |
| Nominal outer diameter | 4,9 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 | 45 dB |
| Nominal Velocity of Propagation (NVP) | 69 % |
| Propagation delay, max. 100 MHz | 536 ns/100m |
| Skew | 45 ns/100m |

Mechanical characteristics

| | |
|---------------------------------|------|
| Maximum operating pulling force | 80 N |
|---------------------------------|------|

Usage characteristics

| | |
|---|-------------|
| Category | Cat. 5e |
| Range | LANmark-5 |
| Minimum Bend Radius - During Installation (under Tension) | 40 mm |
| Minimum Bend Radius - Installed | 20 mm |
| Ambient installation temperature, range | -10 - 50 °C |
| Operating temperature, range | -20 - 60 °C |
| Storage temperature, range | -20 - 70 °C |
| Fire load | 400 MJ/km |
| Flame retardant | IEC 60332-1 |
| Smoke density | IEC 61034 |
| Gases toxicity | IEC 60754 |
| Length | 305 m |
| Packaging | Box |
| RoHS compliant | Yes |