

LANmark-5 U/UTP Cable

LANmark-5 U/UTP AWG24 Cat 5e 155MHz LSZH Eca Orange 1000m reel

Nexans reference: [N100.502-OE](#)

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

POPIS

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

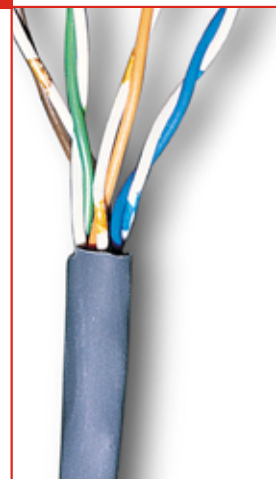
To support the correct set-up of hand held analysers for installation testing, the actual cable NVP value is given in the cable's print legend.

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

STANDART

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

Národní standart ANSI/TIA-568-
C.2



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



Operating temp.
-20 .. 60 °C



Storage temperature,
range
-20 .. 70 °C



Samozhášivost
IEC 60332-1



Hustota dýmu
IEC 61034



Gases toxicity
IEC 60754



RoHS compliant
Yes

Všechny konstrukční výkresy, návrhy, specifikace, plány a detaily týkající se váhy, velikosti, rozměrů, které jsou obsažené v technické nebo komerční dokumentaci Nexans mají pouze oznamovací charakter a nemají charakter Nexans závazných oficiálních dokumentů.

Vytvořené 20.9.17 pro Hana Malá www.nexans.cz Strana 1 / 3

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VLASTNOSTI

Konstrukční charakteristika

Type of cable	U/UTP
Outer sheath	LSZH
Colour	Orange

Rozměrová charakteristika

Diameter over insulation	0,9 mm
Nominal outer diameter	4,9 mm
Approximate weight	30 kg/km
Conductor cross-section (AWG)	24

Electrical characteristics

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

Transmission characteristics

Skew	45 ns/100m
Nominal Velocity of Propagation (NVP)	69 %
Propagation delay, max. 100 MHz	536 ns/100m
Coupling attenuation at 30 MHz	45 dB

Mechanical characteristics

Maximum operating pulling force	80 N
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Charakteristika použití

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
Samozhášivost	IEC 60332-1
Hustota dýmu	IEC 61034
Gases toxicity	IEC 60754
Length	1000 m
Packaging	Reel
RoHS compliant	Yes

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

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4	4.0	59.3	55.3	56.3	51.7	49.0	23.0
10	6.3	53.3	47.0	50.3	43.8	41.0	25.0
16	8.0	50.3	42.3	47.3	39.7	36.9	25.0
20	9.0	48.8	39.8	45.8	37.7	35.0	25.0
31.25	11.4	45.9	34.5	42.9	33.9	31.1	23.6
62.5	16.5	41.4	24.9	38.4	27.9	25.1	21.5
100	21.3	38.3	17.0	35.3	23.8	21.0	20.1
155	27.2	35.5	8.3	32.5	19.9	17.2	18.7

PRODEJNÍ A DODACÍ PODMÍNKY

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