

LANmark-5 U/UTP Cable

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

Contact

Productgroep NCS
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Nexans ref.: N100.502-OE

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

BESCHRIJVING

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

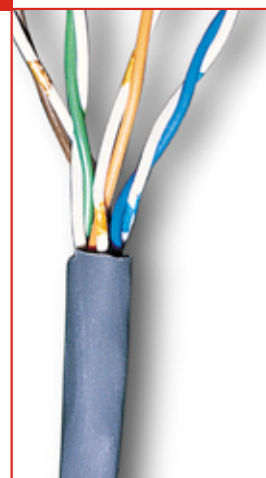
To support the correct set-up of hand held analysers for installation testing, the actual cable NVP value is given in the cable's print legend.

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

PRESTATIEVERKLARING (DOP)

Brandklasse: E_{ca}
volgens EN50575:2014+A1:2016

NORMEN

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

Nationaal ANSI/TIA-568-C.2



Brandklasse
E_{ca}



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



Operating temp.
-20 .. 60 °C



Storage
temperature, range
-20 .. 70 °C



Vlamvertragend
IEC 60332-1



Rookdichtheid
IEC 61034



Toxiciteit van
gassen
IEC 60754



RoHS compliant
Ja

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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KARAKTERISTIEKEN

Constructie

Type of cable	U/UTP
Buitenmantel	LSZH
Kleur	Oranje

Afmetingen

Diameter over isolatie	0,9 mm
Buitendiameter, nominaal	4,9 mm
Gewicht, benaderd	30 kg/km
Afmeting geleider (AWG)	24

Elektrische eigenschappen

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

Transmission characteristics

Skew	45 ns/100m
Snelheid van gegevensoverdracht	69 %
Propagation delay, max. 100 MHz	536 ns/100m
Coupling attenuation at 30 MHz	45 dB

Mechanische eigenschappen

Maximum operating pulling force	80 N
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Gebruik

Category	Cat. 5e
Range	LANmark-5
Minimum Bend Radius - During Installation (under Tension)	40 mm
Minimum Bend Radius - Installed	20 mm
Installatietemperatuur, van/tot	-10 .. 50 °C
Bedrijfstemperatuur, bereik	-20 .. 60 °C
Storage temperature, range	-20 .. 70 °C
Fire load	400 MJ/km
Vlamvertragend	IEC 60332-1
Rookdichtheid	IEC 61034
Toxiciteit van gassen	IEC 60754
Verkrijgbaar in lengte	1000 m
Verpakking	Reel
RoHS compliant	Ja

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

INFORMATIE OVER VERKOOP/LEVERING

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