

LANmark-6 U/UTP Cable

LANmark-6 U/UTP AWG23 Cat 6 350MHz LSZH Eca Orange 1000m reel

Contact

Productgroep NCS
Telefoon: +31 10 248 3470
info.ncs@nexans.com

Nexans ref.: N100.606-OE

- Comply with all Category 6 cable standards
- Support Class E applications
- Central cross member maintains geometry and performance
- Tested up to 350MHz

BESCHRIJVING

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 U/UTP cables have a central cross element 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 a Dark Grey PVC or an Orange LSZH sheath. Both versions have flame retardant properties compliant with IEC 60332-1 and are compliant with EuroClass Eca according to EN50575:2014 +A1:2016.

EuroClass Dca and Cca versions are also available.

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.

Installation



LANmark-6

PRESTATIEVERKLARING (DOP)

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

NORMEN

Internationaal EN 50288;
IEC 61156-5; ISO/IEC 11801

Nationaal ANSI/TIA-568-C.2



Brandklasse
E_{ca}



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



Operating temp.
-20 .. 60 °C



Vlamvertragend
IEC 60332-1



Rookdichtheid
IEC 61034



Toxiciteit van gassen
IEC 60754



Corrosie dmV gassen
IEC 60754

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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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

The LANmark-6 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-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.



Brandklasse
E_{ca}



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C range
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KARAKTERISTIEKEN

Constructie

Type of cable	U/UTP
Buitenmantel	LSZH
Kleur	Oranje
Afscherming	Unshielded

Afmetingen

Diameter over isolatie	1,02 mm
Afmeting geleider (AWG)	23
Buitendiameter, nominaal	6,3 mm
Gewicht, benaderd	43 kg/km

Elektrische eigenschappen

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

Transmission characteristics

Attenuation Crosstalk Ratio, 250MHz	5,5 dB/100m
Skew	30 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	100 N
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Gebruik

Category	Cat. 6
Range	LANmark-6
Minimum Bend Radius - During Installation (under Tension)	50 mm
Minimum Bend Radius - Installed	25 mm
Installatietemperatuur, van/tot	-10 .. 60 °C
Bedrijfstemperatuur, bereik	-20 .. 60 °C
Vlamvertragend	IEC 60332-1
Rookdichtheid	IEC 61034
Toxiciteit van gassen	IEC 60754
Corrosie dmv gassen	IEC 60754
Verkrijgbaar in lengte	1000 m
Verpakking	Reel
Toepassing	Binnen

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The Nexans logo consists of a stylized red 'N' followed by the word 'exans' in a black, sans-serif font.

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ELECTRICAL PERFORMANCE LANMARK-6 CABLES

All values are specified at 20°C

	IL		NEXT		PSNEXT		ACR-F		PS ACR-F		RL	
Freq.	in Db/100m		in dB		in dB		in dB		in dB		in dB	
in MHz	Max.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.
1	2.0	2.0	74.3	80.3	72.3	78.3	67.8	72.8	64.8	69.8	20.0	22.0
4	3.8	3.8	65.3	71.3	63.3	69.3	55.8	60.8	52.8	57.8	23.0	25.0
10	6.0	6.0	59.3	65.3	57.3	63.3	47.8	52.8	44.8	49.8	25.0	27.0
16	7.6	7.6	56.2	62.2	54.2	60.2	43.7	48.7	40.7	45.7	25.0	27.0
20	8.5	8.5	54.8	60.8	52.8	58.8	41.8	46.8	38.8	43.8	25.0	27.0
31.25	10.7	10.7	51.9	57.9	49.9	55.9	37.9	42.9	34.9	39.9	23.6	25.6
62.5	15.4	15.4	47.4	53.4	45.4	51.4	31.9	36.9	28.9	33.9	21.5	23.5
100	19.8	19.8	44.3	50.3	42.3	48.3	27.8	32.8	24.8	29.8	20.1	22.1
155	25.2	25.2	41.4	47.4	39.4	45.4	24.0	29.0	21.0	26.0	18.8	20.8
200	29.0	29.0	39.8	45.8	37.8	43.8	21.8	26.8	18.8	23.8	18.0	20.0
250	32.8	32.8	38.3	44.3	36.3	42.3	19.8	24.8	16.8	21.8	17.3	19.3
300	-	36.4	-	43.1	-	41.1	-	23.3	-	20.3	-	18.8
350	-	39.8	-	42.1	-	40.1	-	21.9	-	18.9	-	18.3