

LANmark-6 Shielded Cable

LANmark-6 F1/UTP Dual AWG24 Cat 6 350MHz LSZH Dca s2 d2 a1
Orange 500m reel

Nexans reference: [N100.623-OD](#)

- F1/UTP and F2/UTP constructions
- Comply with all Category 6 cable standards
- Support Class E applications
- Central cross member maintains geometry and performance
- Tested up to 350MHz
- Orange LSZH sheath

POPIS

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 shielded cables have AWG 24 solid copper wires and comply with IEC 60228.

The PE central cross filler helps maintaining the stability of the cable geometry and reduces the risk of a reduction in performance when bending the cable.

The cables come standard with an Orange LSZH sheath.

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

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.



LANmark-6

STANDART

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

Národní standart ANSI/TIA-568-
C.2



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



Operating temp.
-20 .. 60 °C



Samozhášivost
IEC 60332-1



Hustota dýmu
IEC 61034



Gases toxicity
IEC 60754



Gases corrosivity
IEC 60754

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 / 4

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

LANmark-6 Shielded Cable

LANmark-6 F1/UTP Dual AWG24 Cat 6 350MHz LSZH Dca s2 d2 a1
Orange 500m reel

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.



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



Operating temp.
-20 .. 60 °C



Samozhášivost
IEC 60332-1



Hustota dýmu
IEC 61034



Gases toxicity
IEC 60754



Gases corrosivity
IEC 60754

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 2 / 4

LANmark-6 Shielded Cable

LANmark-6 F1/UTP Dual AWG24 Cat 6 350MHz LSZH Dca s2 d2 a1
Orange 500m reel

VLASTNOSTI

Konstrukční charakteristika

Type of cable	FTP Shotgun
Outer sheath	LSZH
Colour	Orange
Screen	Aluminium foil

Rozměrová charakteristika

Diameter over insulation	1,13 mm
Conductor cross-section (AWG)	24
Nominal outer diameter	7,3 mm
Approximate weight	104 kg/km

Electrical characteristics

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

Transmission characteristics

Attenuation Crosstalk Ratio, 250MHz	5,5 dB/100m
Skew	30 ns/100m
Nominal Velocity of Propagation (NVP)	70 %
Propagation delay, max. 100 MHz	536 ns/100m
Coupling attenuation at 30 MHz	>70 dB

Mechanical characteristics

Maximum operating pulling force	100 N
---------------------------------	-------

Charakteristika použití

Category	Cat. 6
Range	LANmark-6
Minimum Bend Radius - During Installation (under Tension)	58 mm
Minimum Bend Radius - Installed	29 mm
Ambient installation temperature, range	-10 .. 60 °C
Operating temperature, range	-20 .. 60 °C
Samozhášivost	IEC 60332-1
Hustota dýmu	IEC 61034
Gases toxicity	IEC 60754
Gases corrosivity	IEC 60754
Length	500 m
Packaging	Reel
Field of application	Indoor

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 3 / 4

LANmark-6 Shielded Cable

LANmark-6 F1/UTP Dual AWG24 Cat 6 350MHz LSZH Dca s2 d2 a1
Orange 500m reel

ELECTRICAL PERFORMANCE LANMARK-6 CABLES

All values are specified at 20°C

Freq. in MHz	IL in Db/100m		NEXT in dB		PSNEXT in dB		ACR-F in dB		PS ACR-F in dB		RL in dB	
	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
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