Vexans

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LANmark-6 Cable LANmark-6 F²/UTP LSZH 500m reel Nexans ref.: N100.662

· Complies to all Category 6 cable standards

- Supports Class E applications
- Central cross member maintains geometry and performance
- · Tested up to 350MHz

Description

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 cables have AWG 23 solid copper wires and comply with IEC 60228

The PE central cross filler helps maintain 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.

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 11801:2002, IEC 61156-5, EN 50173, EN 50288 and TIA/EIA 568-C.2.

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.





static bending rad

29 mm













range -10 .. 50 °C

Operating temp range -20 .. 60 °C





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Standards

International EN 50288: IEC 61156-5; ISO/IEC 11801 National ANSI/TIA-568-C.2

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Characteristics

Type of cableF*Outer sheathLSiColourOranScreenAluminiummensional characteristicsInteresticeDiameter over insulation1.13 nConductor cross-section (AWG)7.3 nNominal outer diameter7.3 nApproximate weight52 kg/lactrical characteristicsInterestical characteristicsMutual capacitance66 nF/lMutual capacitance100 OlTransfer impedance100 OlTransfer impedance100 OlSkew30 ns/loiVelocity of propagation68.0Coupling attenuation at 30 MHz800Propagation delay, max. 100 MHz536 ns/loiarageLAImardLaying operation bending radius29 nAmbient installation temperature, range-10.50Operating temperature, range-20.60Fire retardantIEC 60333Length500PackagingStorPackagingStorPackagingStorPackagingStorPackagingStorPackagingStorPackagingStorPackagingStorPackagingStorPackagingStorPackagingStorPackagingStorPackagingStorPackagingStorPackagingStorPackagingStorPackagingStorPackagingStorPackagingStor <t< th=""><th></th><th></th></t<>		
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		Fixed installations













operation bending rad. 57 mm

static bending rad. 29 mm

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

Operating temp. range -20 .. 60 °C

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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	2.0	74.3	72.3	72.3	70.0	67.0	20.0
4	3.8	65.3	61.5	63.3	58.0	55.0	23.0
10	6.0	59.3	53.3	57.3	50.0	47.0	25.0
16	7.6	56.2	48.6	54.3	45.9	42.9	25.0
20	8.5	54.8	46.3	52.8	44.0	41.0	25.0
31.25	10.7	51.9	41.2	49.9	40.5	37.5	23.6
62.5	15.4	47.4	32.0	45.4	34.1	31.1	21.5
100	19.8	44.3	24.5	42.3	30.0	27.0	20.1
155	25.2	41.4	16.2	39.5	26.2	23.2	18.8
200	29.0	39.8	10.8	37.8	24.0	21.0	18.0
250	32.8	38.3	5.5	36.3	22.0	19.0	17.3
300	36.4	37.1	1.5	35.2	20.5	17.5	16.8
350	39.8	36.1	-	34.2	19.1	16.1	14.1

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