LANmark-5 Cable
LANconnect/LANmark-5 U/UTP PVC 500m Reel
Nexans ref.: N100.522

- Offers headroom to Category 5e standards
- Performance guaranteed to 155MHz
- Supports Gigabit Ethernet

Description

Application

Nexans LANconnect/LANmark-5 cable is designed to provide additional performance and bandwidth over and above the basic requirements of Category 5e. With modern high speed applications, installation effects can have a serious influence on the initial cable performance and therefore without sufficient headroom, problems can arise. The addition of transition points within the link can also lead to additional losses. Nexans LANconnect/LANmark-5 provides the additional headroom necessary to ensure that applications such as Gigabit Ethernet can run efficiently after installation. It is available in Grey PVC or Orange LSZH.
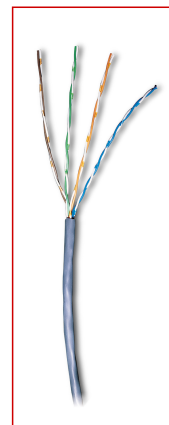
Performance

With guaranteed performance to 155MHz, Nexans LANconnect/LANmark-5 cables provide guaranteed additional headroom and bandwidth over and above the requirements of TIA 568-B and IEC 61156-5.

Guarantees

Nexans LANconnect/LANmark-5 cables are covered by the guarantee that they are Category 5e and by a parts and labour warranty as described in the Nexans Certified System Warranty. Moreover they come with following guarantees:

- 3dB min. headroom over IEC 61156-5 and TIA 568-B Cat 5e NEXT
- Improved ACR
- Superior EMC performance
- 155MHz guaranteed performance
- When used in a full LANmark system, full LANmark D channel warranty can be obtained.
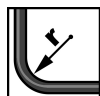
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Standards

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

National TIA/EIA-568-B.2

operation bending rad. 40 mm	static bending rad. 20 mm	Ambient installation T°C range 0 .. 50 °C	Operating temp. range -20 .. 60 °C	Storage temperature, range -20 .. 70 °C	Flame retardant IEC 60332-1

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Characteristics

Construction characteristics	
Type of cable	U/UTP
Outer sheath	PVC
Colour	Grey
Dimensional characteristics	
Diameter over insulation	0.9 mm
Nominal outer diameter	4.9 mm
Approximate weight	30 kg/km
Conductor cross-section (AWG)	24
Electrical characteristics	
Characteristic impedance	100 Ohm
Transfer impedance	20
Transmission characteristics	
Coupling attenuation at 30 MHz	45 dB
Skew	45 ns/100m
Velocity of propagation	68.0 %
Propagation delay, max. 100 MHz	536 ns/100m
Usage characteristics	
Category	Cat. 5e
Range	LANmark-5
Component function	Cable
Laying operation bending radius	40 mm
Minimum static operating bending radius	20 mm
Ambient installation temperature, range	0 .. 50 °C
Operating temperature, range	-20 .. 60 °C
Storage temperature, range	-20 .. 70 °C
Fire load	400 MJ/km
Flame retardant	IEC 60332-1
Length	500 m
Packaging	Reel

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
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

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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

(*) Dual cable versions additionally comply to the additional PSNEXT requirements for multi-unit cables as specified in the relevant TIA and IEC cable standards.

Selling delivery information

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