

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

Description

Application

Nexans LANmark-5 cable 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 without sufficient headroom problems can arise. The addition of transition points within the link can also lead to additional losses. Nexans 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.

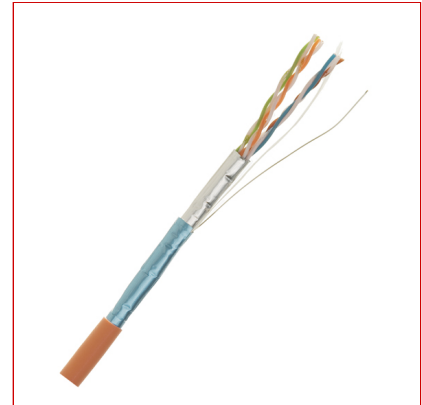
Performance

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

Guarantees

Nexans 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.



LANmark-5

Standards

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

National TIA/EIA-568-B.2; TIA/
EIA-568-B.2

Related Information

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

Contact

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Characteristics

Electrical characteristics	
Transfer impedance	20
Characteristic impedance	100 Ohm
Transmission characteristics	
Propagation delay, max. 100 MHz	536 ns/100m
Usage characteristics	
Range	LANmark-5



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
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.

Product List

Nexans ref.	Name	Type of cable	Category	Outer sheath	Flame retardant
N100.403	LANmark-5 F ² /UTP DUAL LSZH 500m Reel	F ² TP Shotgun	LANmark-5	LSZH	IEC 60332-1
N100.413	LANmark-5 F ² /UTP Dual PVC 500m Reel	F ² TP Shotgun	LANmark-5	PVC	IEC 60332-1
N100.402	LANmark-5 F ² /UTP LSZH 1000m Reel	F ² TP	LANmark-5	LSZH	IEC 60332-1
N100.421	LANmark-5 F ² /UTP LSZH 500m Reel	F ² TP	LANmark-5	LSZH	IEC 60332-1
N100.412	LANmark-5 F ² /UTP PVC 1000m Reel	F ² TP	LANmark-5	PVC	IEC 60332-1
N100.431	LANmark-5 F ² /UTP PVC 500m Reel	F ² TP	LANmark-5	PVC	IEC 60332-1
 N100.493	LANmark-5 F ¹ /UTP DUAL LSZH 500m Reel	F/UTP Shotgun	LANmark-5	LSZH	IEC 60332-1
 N100.443	LANmark-5 F ¹ /UTP Dual PVC 500m Reel	F/UTP Shotgun	LANmark-5	PVC	IEC 60332-1

LANmark-5 Cable

Nexans ref.	Name	Type of cable	Category	Outer sheath	Flame retardant
N100.492	LANmark-5 F1/UTP LSZH 1000m Reel	F/UTP	LANmark-5	LSZH	IEC 60332-1
N100.491	LANmark-5 F1/UTP LSZH 305m Box	F/UTP	LANmark-5	LSZH	IEC 60332-1
N100.494	LANmark-5 F1/UTP LSZH 500m Reel	F/UTP	LANmark-5	LSZH	IEC 60332-1
N100.442	LANmark-5 F1/UTP PVC 1000m Reel	F/UTP	LANmark-5	PVC	IEC 60332-1
N100.441	LANmark-5 F1/UTP PVC 305m Box	F/UTP	LANmark-5	PVC	IEC 60332-1
N100.444	LANmark-5 F1/UTP PVC 500m Reel	F/UTP	LANmark-5	PVC	IEC 60332-1
N100.503	LANmark-5 U/UTP DUAL LSZH 500m Reel	U/UTP	LANmark-5	LSZH	IEC 60332-1
N100.513	LANmark-5 U/UTP Dual PVC 500m Reel	U/UTP	LANmark-5	PVC	IEC 60332-1
N100.502	LANmark-5 U/UTP LSZH 1000m Reel	U/UTP	LANmark-5	LSZH	IEC 60332-1
N100.507	LANmark-5 U/UTP LSZH 305m Box	U/UTP	LANmark-5	LSZH	IEC 60332-1
N100.517	LANmark-5 U/UTP PVC 305m Box	U/UTP	LANmark-5	PVC	IEC 60332-1