

- 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.

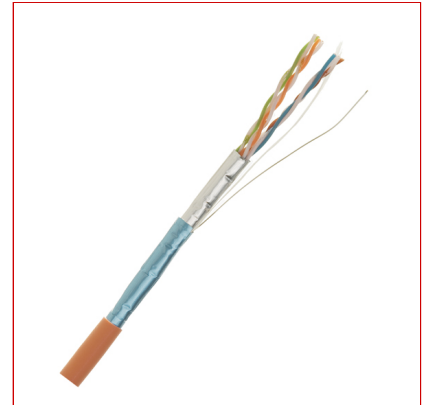
#### Performance

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.

### Characteristics

<b>Electrical characteristics</b>	
Transfer impedance	20
Characteristic impedance	100 Ohm
<b>Transmission characteristics</b>	
Propagation delay, max. 100 MHz	536 ns/100m
<b>Usage characteristics</b>	
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 <sup>2</sup> /UTP DUAL LSZH 500m Reel	F <sup>2</sup> TP Shotgun	LANmark-5	LSZH	IEC 60332-1
N100.413	LANmark-5 F <sup>2</sup> /UTP Dual PVC 500m Reel	F <sup>2</sup> TP Shotgun	LANmark-5	PVC	IEC 60332-1
N100.402	LANmark-5 F <sup>2</sup> /UTP LSZH 1000m Reel	F <sup>2</sup> TP	LANmark-5	LSZH	IEC 60332-1
N100.421	LANmark-5 F <sup>2</sup> /UTP LSZH 500m Reel	F <sup>2</sup> TP	LANmark-5	LSZH	IEC 60332-1
N100.412	LANmark-5 F <sup>2</sup> /UTP PVC 1000m Reel	F <sup>2</sup> TP	LANmark-5	PVC	IEC 60332-1
N100.431	LANmark-5 F <sup>2</sup> /UTP PVC 500m Reel	F <sup>2</sup> TP	LANmark-5	PVC	IEC 60332-1
 N100.493	LANmark-5 F <sup>1</sup> /UTP DUAL LSZH 500m Reel	F/UTP Shotgun	LANmark-5	LSZH	IEC 60332-1
 N100.443	LANmark-5 F <sup>1</sup> /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