

LANmark-5

UTP 4 pair and 2x4 pair Data Cables

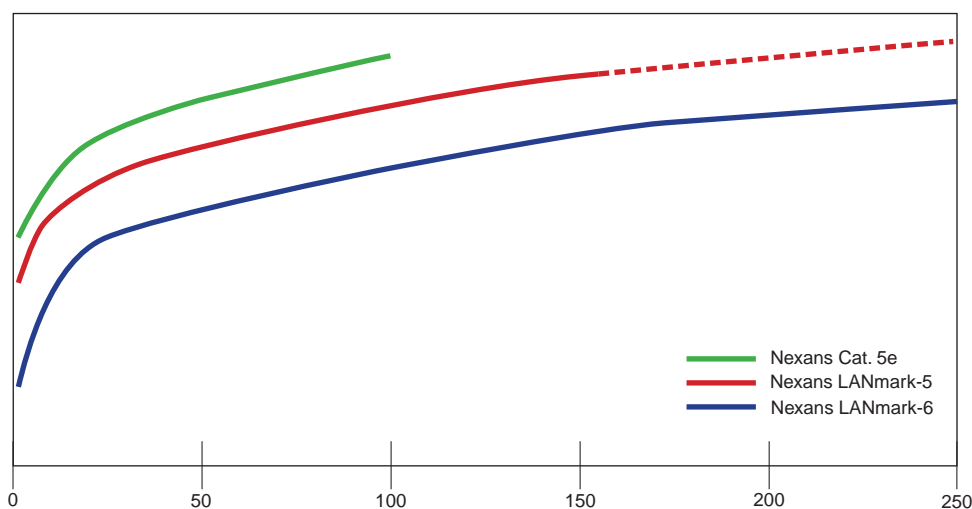
Application

Nexans LANmark-5 UTP 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 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

Tested and specified to 350MHz and 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. The graph shown represents comparative ACR between different Nexans products. Actual data is shown overleaf.

ACR Comparison



Guarantees

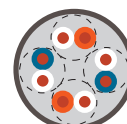
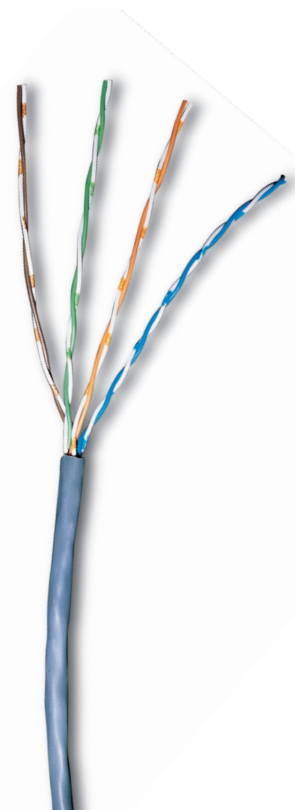
Nexans LANmark-5 UTP comes with the following guarantees:

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

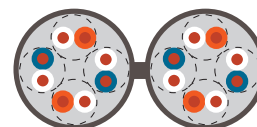
Installation

Nexans LANmark-5 cables are designed to be installer friendly. The additional headroom provides confidence that difficult installations will pass test.

Minimum Bend Radius :	
operation	20 mm
installation	40 mm
Max. Installation tension :	
UTP 4 pair	80N
UTP Shotgun 2x4 pair	160N



UTP 4 pair



UTP 2x4 pair
shotgun

UTP 4 pair and 2x4 pair shotgun Data Cables

Edition 17.06.2002
Copyright © Nexans 2002

Electrical Performance

Frequency MHz	Attenuation dB/100 m	NEXT pr/pr dB	ACR dB/100 m	PS NEXT (*) dB	EL-FEXT pr/pr dB/100 m	PS EL-FEXT dB/100 m	RL dB
1	2,1	68,3	66,2	65,3	63,8	61.0	20
4	4.0	59,3	55,3	56,3	51,7	49.0	23
10	6,3	53,3	47.0	50,3	43,8	41.0	25
16	8,0	50,3	42,3	47,3	39,7	36,9	25
20	9,0	48,8	39,8	45,8	37,7	35.0	25
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

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

Other characteristics

Skew (ns/100m)	45
Velocity of propagation (%)	68
Propagation delay @ 100 MHz (ns/100m)	<536
Characteristic impedance (Ohm)	100 ± 15
Coupling attenuation @ 30 MHz (dB)	45

Physical characteristics

	UTP	UTP shotgun
Conductor diameter(mm)	0.506	0.506
Insulation diameter (mm)	0.900	0.900
Cable diameter (mm)	4.9	5.0 x 12.0
Nominal cable weight (kg/km)	30.0	62.0

Environmental characteristics

	UTP	UTP shotgun
Temperature rating (installation)	0°C/+50°C	0°C/+50°C
Temperature rating (operation)	-20°C/+60°C	-20°C/+60°C
Flame retardent (IEC 332-1)	Yes	Yes
Fire load (MJ/km)	400	800

Part Numbers

Cable type	No of pairs	PART No	Sheath	Colour	Packing
UTP	4pr	100.517	PVC	Grey	305 m box
		100.512			1000 m reel
		100.507	LSZH	Orange	305 m box
		100.502			1000 m reel
UTP Shotgun	2 x 4 pr	100.513	PVC	Grey	500 m reel
		100.503	LSZH	Orange	500 m reel

All data subject to change without prior notice.

For installation, please refer to the installation guidelines.

Paris

rue Mozart, 4-10
92587 Clichy CEDEX
France
Tel +33 (0)1 56 69 84 00
Fax +33 (0)1 56 69 86 38

Brussels

Alembergsesteenweg 2, b3
1501 Buizingen
Belgium
Tel +32 (0)2 363 38 00
Fax +32 (0)2 365 09 99

Orpington

Swan House
New Mill Road
Crayfields Business Park
Orpington - Kent
BR5 3QD
United Kingdom
Tel +44 (0) 1689 887654
Fax +44 (0) 1689 887650

www.nexans.com/ncs

