

LANmark-6A Patch Cords

LANmark-6A Ultim Patch Cord Cat 6A 500MHz RJ45 LSZH Orange 2m

Nexans ref.: [N101.22GEO](#)

Netcomp ref: NE101.22GEO

- High speed RJ45 patch cord to run 10GBase-T
- Frequency range up to 500MHz
- Complies to Cat 6A in as defined in TIA568B.2-10
- Fully screened for Alien Crosstalk immunity
- Uses Nexans stranded U/FTP cable technology

Description

Application

LANmark-6A Ultim cords are developed to support the 10 Gigabit Ethernet application (IEEE 802.3an), offer superior performance up to 500MHz and exceed the Category 6A requirements. They provide improved data throughput and allow for the inclusion of Cross-Connects or Consolidation Points into the channel configuration. Ultim cords use stranded cable and as such provide maximum system flexibility at CC and CP. They will also maximise the lifetime and long term performance of the system by minimising the risk of wear & tear damage which can be caused by using non-matched cords. LANmark-6A Ultim cords can also be used for accurate field testing of Cat 6A cabling channels due to their mechanical stability.

Performance

The LANmark-6A Ultim cords fully comply and exceed the requirements of EIA/TIA-568-B.2-10 and enable to achieve high performing Cat 6A channels. Used with other LANmark-6A components, very short Cat 6A link and channel configurations with up to 3 connection points within 10 meters can be supported.

Guarantees

When installed in combination with other LANmark-6A components, a 25 years channel warranty can be obtained, covering full 10GBase-T support and full Cat 6A/Class EA compliance.



LANmark-6A

Standards

International IEEE 802.3an;
ISO/IEC TR 24750;
ISO11801:2002/A1:2008
National TIA/EIA TSB-155;TIA/
EIA-568-B.2-10



Fire retardant
IEC 60332 Part 1

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Installation

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- The cords are by design fully Alien Crosstalk compliant as in IEEE 802.3an so no special installation rules need to be taken into account for ANEXT and AFEXT compliance.
- 1, 2, 3 and 5m are standard lengths; other lengths are available on demand.
- 10 m is standard length for single-end patchcord; other lengths are available on demand.
- Orange and Dark Grey are standard colors other colors are available on demand.
- Rugged construction: external strain relief.

Characteristics

Construction characteristics	
Colour	Orange
Screen	Yes
Outer sheath	LSZH-FR
Dimensional characteristics	
Nominal outer diameter	7.0 mm
Electrical characteristics	
Characteristic impedance	100 Ohm
Usage characteristics	
Length	2 m
Mechanical durability/matings	750
Fire retardant	IEC 60332 Part 1
Component function	Patchcord
Category	Cat. 6A
Packaging	Box of 50 items



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Electrical Performance LANmark-6A 4 Connector Channel Part 1

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"All values are based on Worst Case 4 Connector Channel configurations according ISO11801:2008 AM1 Minimal and maximum values represent guaranteed channel performance"

Freq in MHz	Attn		NEXT			PSNEXT			ACR-F	
	in dB		in dB			in dB			in dB	
	Max	Typ	Std	Min	Typ	Std	Min	Typ	Std	Typ
1	<4	4.0	65.0	67.0	85.0	62.0	64.0	74.8	63.3	69.9
4	4.1	4.1	63.0	65.0	72.9	60.5	62.5	65.0	51.2	57.9
10	6.4	6.3	56.6	58.6	65.0	54.0	56.0	58.5	43.3	49.9
16	8.1	8.0	53.2	55.2	60.9	50.6	52.6	55.1	39.2	45.9
20	9.1	9.0	51.6	53.6	59.0	49.0	51.0	53.5	37.2	43.9
31.25	11.4	11.2	48.4	50.4	55.1	45.7	47.7	50.2	33.4	40.0
62.5	16.3	15.9	43.4	45.4	49.1	40.6	42.6	45.1	27.3	34.0
100	20.8	20.2	39.9	41.9	45.0	37.1	39.1	41.6	23.3	29.9
155	26.2	25.4	36.7	38.7	41.2	33.8	35.8	38.3	19.5	26.1
200	30.0	28.9	34.8	36.8	39.0	31.9	33.9	36.4	17.2	23.9
250	33.8	32.5	33.1	35.1	37.0	30.2	32.2	34.7	15.3	22.0
300	37.3	35.7	31.7	33.7	35.4	28.8	30.8	33.3	13.7	20.4
500	49.3	46.7	27.9	29.9	31.0	24.8	26.8	24.9	9.3	16.0

*Standard values based on ISO11801:2002/A1:2008 ClassEA



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Electrical Performance LANmark-6A 4 Connector Channel Part 2

Netcomp ref: NE101.22GEO

All values are based on Worst Case 4 Connector Channel configurations according ISO11801:2008 AM1
Minimal and maximum values represent guaranteed channel performance

Freq in MHz	PS ACR-F in dB		PS ANEXT in dB			PS AACR-F in dB			RL in dB		
	Std	Typ	Std	Min	Typ	Std	Min	Typ	Std	Min	Typ
1	60.3	66.9	80.0	90.0	92.0	77.0	92.0	94.0	19.0	21.0	21.0
4	48.2	54.9	74.0	89.0	91.0	65.0	80.0	82.0	19.0	21.0	32.0
10	40.3	46.9	70.0	85.0	87.0	57.0	72.0	74.0	19.0	21.0	28.0
16	36.2	42.9	68.0	83.0	85.0	52.9	67.9	69.9	18.0	20.0	26.0
20	34.2	40.9	67.0	82.0	84.0	51.0	66.0	68.0	17.5	19.5	25.0
31.25	30.4	37.0	65.1	80.1	82.1	47.1	62.1	64.1	16.5	18.5	23.1
62.5	24.3	31.0	62.0	77.0	79.0	41.1	56.1	58.1	14.0	16.0	20.0
100	20.3	26.9	60.0	75.0	77.0	37.0	52.0	54.0	12.0	14.0	18.0
155	16.5	23.1	57.1	72.1	74.1	33.2	48.2	50.2	10.1	12.1	16.1
200	14.2	20.9	55.5	70.5	72.5	31.0	46.0	48.0	9.0	11.0	15.0
250	12.3	19.0	54.0	69.0	71.0	29.0	44.0	46.0	8.0	10.0	14.0
300	10.7	17.4	52.8	67.8	69.8	27.5	42.5	44.5	8.0	10.0	13.2
500	6.3	13.0	49.5	64.5	66.5	23.0	38.0	40.0	8.0	10.0	11.0

*Standard values based on ISO11801:2002/A1:2008 ClassEA



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