



- High speed RJ45 patch cord to run 10GBase-T and future Cat6A applications
- High Density support : 48 cords on 1 height unit
- Frequency range up to 500MHz, fully complies to Cat 6A TIA568C.2 and ISO11801
- Individually screened pairs for reduced Internal Crosstalk and Alien Crosstalk immunity
- Externally certified
- Retrofit Latch Protector available in 8 colours for colour coding

## STANDARDS

**Product** EN 50173-1; IEEE 802.3an

**International** ISO/IEC 11801; ISO/IEC TR24750

## APPLICATION

LANmark-6A Ultim cords are developed to support 10 Gigabit Ethernet (IEEE 802.3an) and any other future Cat.6A application.

LANmark-6A Ultim Cords offer superior performance up to 500MHz and are matched with other LANmark-6A components to provide improved data throughput in complex channel configurations. Ultim cords use stranded cable and as such provide maximum system flexibility for the use at Cross Connects and Consolidation points.

They will also maximise the lifetime and longevity of the system by minimising the risk of wear & tear damage. Due to their good electrical performance and mechanical stability, LANmark-6A Ultim cords can be used for accurate field testing of Cat 6A cabling channels.

LANmark-6A Solid Cords use screened cables with solid AWG26 conductors, which are often used to build cross connects and consolidation points (for this purpose, the LANmark-6A connector for **stranded** wire - N420.67A - should be used).

LANmark-6A Solid Cords feature a slim over-moulded boot for mechanical protection, which is kept inside the RJ45 boundaries to enable high density patching with 48 cords in 1 height unit. A 'Retrofittable' Latch Protector is available as accessory, which can be used for colour coding of different services.

Ultim Cords feature a slim boot for mechanical protection, which is kept inside the RJ45 boundaries to enable High Density Patching with 48 cords in 1 height unit.

They also come with a 'Replaceable' Latch Protector, which can be used for colour coding of different services.

## Performance

The LANmark-6A Ultim cords fully comply and exceed the requirements of EIA/TIA-568-C.2 and ISO11801 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.

## Usage

- The cords are by design fully Alien Crosstalk compliant, so no special installation rules need to be taken into account for ANEXT and AFEXT compliance.
- 1, 2, 3, 5, 10, 20m are standard lengths available from stock, other lengths are available on demand.

• Orange and Dark Grey are standard colours available from stock; other colours are available on demand.

All drawings, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Nexans is indicative only and shall not be binding on Nexans or be treated as constituting a representation on the part of Nexans.

- Default Plug Configuration is a black boot with a pre-installed black latch protector.
- Small cross section allows neat installation and simplifies the creation of bundles in cabinets.

• Low Smoke Halogen Free - Flame Retardant

## CHARACTERISTICS

### Construction characteristics

Colour	-
Outer sheath	LSZH-FR
Screen	-

### Dimensional characteristics

Conductor cross-section (AWG/KCMIL)	26
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### Usage characteristics

Range	LANmark-6A
Length	- m

## ELECTRICAL PERFORMANCE LANMARK-6A 4 CONNECTOR CHANNEL

NEXT in dB		PSNEXT in dB			ACR-F in dB	
Min	Typ	Std	Min	Typ	Std	Typ
67,0	85,0	62,0	64,0	74,8	63,3	69,9
65,0	72,9	60,5	62,5	65,0	51,2	57,9
58,6	65,0	54,0	56,0	58,5	43,3	49,9
55,2	60,9	50,6	52,6	55,1	39,2	45,9
53,6	59,0	49,0	51,0	53,5	37,2	43,9
50,4	55,1	45,7	47,7	50,2	33,4	40,0
45,4	49,1	40,6	42,6	45,1	27,3	34,0
41,9	45,0	37,1	39,1	41,6	23,3	29,9
38,7	41,2	33,8	35,8	38,3	19,5	26,1
36,8	39,0	31,9	33,9	36,4	17,2	23,9
35,1	37,0	30,2	32,2	34,7	15,3	22,0
33,7	35,4	28,8	30,8	33,3	13,7	20,4
29,9	31,0	24,8	26,8	24,9	9,3	16,0

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	7,2	9,2	13,2
500	6,3	13,0	49,5	64,5	66,5	23,0	38,0	40,0	6,0	8,0	11,0

All values are based on Worst Case 4 Connector Channel configurations according to ISO11801.  
Minimum and maximum values represent guaranteed Channel performance.  
Standard values based on ISO11801 Class EA