# LANmark-6A ULTIM UniBoot Patch Cords

**LANMARK-6A ULTIM PATCH CORD CAT 6A SCREENED LSZH 1M ORANGE**



**Aginode Ref:** N11A.U1F010OK

- High speed RJ45 patch cord to run 10GBase-T and future Category 6A / Class EA applications
- High Density support : 48 cords on 1 height unit
- Frequency range up to 500 MHz, fully compliant with TIA 568.2-D and ISO 11801 for Category 6A
- Individually screened pairs for excellent NEXT performance and Alien Crosstalk immunity
- Certified by 3rd party lab
- Removable latch protector available in 8 colours for colour coding

## STANDARDS

ANSI/TIA-568-C.2
EN 50173-1
IEEE 802.3an
ISO/IEC 11801
ISO/IEC TR24750
TIA/EIA TSB-155

## 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.

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-568.2-D and ISO11801 and enable to achieve high performing Cat 6A channels. Used with other

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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 (N11A.U1FxxxOK) and Dark Grey (N11A.U1FxxxDK) are standard colours available from stock. Other colours available as make-to-order are:
  Blue (N11A.U1FxxxBK) / Red (N11A.U1FxxxRK) / Yellow (N11A.U1FxxxYK) / Green (N11A.U1FxxxGK).
  White (N11A.U1FxxxWK) and Black (N11A.U1FxxxKK) are available on demand.
- Default Plug Configuration is a black boot with a preinstalled black latch protector.

## Electrical Performance LANmark-6A 4 Connector Channel

| Freq | Attn in dB | | NEXT in dB | | | PSNEXT in dB | | | ACR-F in dB | |
|---|---|---|---|---|---|---|---|---|---|---|
| in MHz | 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 |

| Freq | PS ACR-F in dB | | PS ANEXT in dB | | | PS AACR-F in dB | | | RL in dB | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| in MHz | 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 |

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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

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# LANmark-6A Ultim Patch Cord Cat 6A Screened LSZH 1m Orange

## Characteristics

| | |
|---|---|
| **Construction characteristics** | |
| Colour | Orange |
| Screen | Yes |
| Outer sheath | LSZH |
| **Dimensional characteristics** | |
| Conductor cross-section (AWG/KCMIL) | 26 |
| Nominal outer diameter (mm) | 6.0 mm |
| **Electrical characteristics** | |
| Characteristic impedance | 100 Ohm |
| **Usage characteristics** | |
| Range | LANmark-6A |
| Field of application | Indoor |
| Length | 1 m |
| Category | Cat. 6A |
| Flame retardant | IEC 60332-1 |
| Component function | Patchcord |
| Packaging | Box of 50 items |
| Mechanical durability/matings | 750 |

### Documentation

Freetable LM6A Channel V2 Part 1_1.xls xls — 20.5 KB Download

Freetable LM6A Channel V2 Part 2_1_1.xls xls — 24.5 KB Download

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