# LANmark-6 U/UTP Cable GB 31247 B1

**LANMARK-6 U/UTP AWG23 CAT 6 350MHZ LSZH GB 31247 B1 (D0,T0,A1) ORANGE 305M REEL**

**Aginode Ref:** N100.604-GB1

- Compliant with all Category 6 cable standards
- Supports Class E applications
- Central cross member maintains geometry and performance
- Tested up to 350MHz
- GB 31247 B1 (d0,t0,a1)compliance



## STANDARDS

ANSI/TIA-568-C.2
EN 50173-1
EN 50288
GB 31247
IEC 61156-5
ISO/IEC 11801

## Application

Aginode LANmark-6 cables are the ideal solution for most of today's network requirements in normal office environments. They are manufactured and tested to the latest Category 6 specifications defined in the International and American cable standards and are designed to meet the quality and performance criteria needed to support all applications up to 250 MHz.

- 10baseT Ethernet
- 100baseTX Fast Ethernet
- 1000baseTX Gigabit Ethernet
- 155 MBit ATM
- 622 MBit ATM
- 1.2 Gbit ATM
- Future class E applications

## Design

The LANmark-6 U/UTP cables have a central cross element which helps maintaining the stability of the cable geometry and reduces the risk of a reduction in performance when bending the cable.

## Performance

Tested to 350 MHz and with guaranteed performance to 250 MHz, Aginode LANmark-6 cables exceed the requirements of the International, European and American cable standards, including ISO/IEC 11801, IEC 61156-5, EN 50173, EN 50288 and TIA/EIA 568-C.2.

The cables Jacket is Orange LSZH sheath. It has flame retardant properties compliant with IEC 60332-1 and also

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compliant with Chinese bundle flame test Class B1 according to GB 31247 B1.

## Installation

To support the correct set-up of hand held analysers for installation testing, the actual cable NVP value is given in the cable's print legend.

## Guarantees

The LANmark-6 cable performance is guaranteed to meet or exceed the requirements of the above mentioned standards.

Traceability codes on both cable and packaging ensure quality validation of the installed cable.

Installations with LANmark-6 cable and connectivity are qualified for a 25 year full system warranty, which includes Parts, Channel Performance, Application Support and Labour, as described in the Aginode Certified System Warranty.

### Electrical Performance LANmark-6 U/UTP Cable

| | IL | | NEXT | | PSNEXT | | ACR-F | | PS ACR-F | | RL | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Freq. | in Db/100m | | in dB | | in dB | | in dB | | in dB | | in dB | |
| in MHz | Max. | Typ. | Min. | Typ. | Min. | Typ. | Min. | Typ. | Min. | Typ. | Min. | Typ. |
| 1 | 2,0 | 2,0 | 74,3 | 80,3 | 72,3 | 78,3 | 67,8 | 72,8 | 64,8 | 69,8 | 20,0 | 22,0 |
| 4 | 3,8 | 3,8 | 65,3 | 71,3 | 63,3 | 69,3 | 55,8 | 60,8 | 52,8 | 57,8 | 23,0 | 25,0 |
| 10 | 6,0 | 6,0 | 59,3 | 65,3 | 57,3 | 63,3 | 47,8 | 52,8 | 44,8 | 49,8 | 25,0 | 27,0 |
| 16 | 7,6 | 7,6 | 56,2 | 62,2 | 54,2 | 60,2 | 43,7 | 48,7 | 40,7 | 45,7 | 25,0 | 27,0 |
| 20 | 8,5 | 8,5 | 54,8 | 60,8 | 52,8 | 58,8 | 41,8 | 46,8 | 38,8 | 43,8 | 25,0 | 27,0 |
| 31,25 | 10,7 | 10,7 | 51,9 | 57,9 | 49,9 | 55,9 | 37,9 | 42,9 | 34,9 | 39,9 | 23,6 | 25,6 |
| 62,5 | 15,4 | 15,4 | 47,4 | 53,4 | 45,4 | 51,4 | 31,9 | 36,9 | 28,9 | 33,9 | 21,5 | 23,5 |
| 100 | 19,8 | 19,8 | 44,3 | 50,3 | 42,3 | 48,3 | 27,8 | 32,8 | 24,8 | 29,8 | 20,1 | 22,1 |
| 155 | 25,2 | 25,2 | 41,4 | 47,4 | 39,4 | 45,4 | 24,0 | 29,0 | 21,0 | 26,0 | 18,8 | 20,8 |
| 200 | 29,0 | 29,0 | 39,8 | 45,8 | 37,8 | 43,8 | 21,8 | 26,8 | 18,8 | 23,8 | 18,0 | 20,0 |
| 250 | 32,8 | 32,8 | 38,3 | 44,3 | 36,3 | 42,3 | 19,8 | 24,8 | 16,8 | 21,8 | 17,3 | 19,3 |
| 300 | - | 36,4 | - | 43,1 | - | 41,1 | - | 23,3 | - | 20,3 | - | 18,8 |
| 350 | - | 39,8 | - | 42,1 | - | 40,1 | - | 21,9 | - | 18,9 | - | 18,3 |

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# LANmark-6 U/UTP AWG23 Cat 6 350MHz LSZH GB 31247 B1 (d0,t0,a1) Orange 305m reel

## Characteristics

| | |
|---|---|
| **구조적 특성** | |
| 색상 | 주황색 |
| 스크린 | 비차폐 |
| 피복 | 저연 할로겐 프리 |
| Type of cable | U/UTP |
| **치수** | |
| Number of pairs | 4 |
| Conductor cross-section (AWG/KCMIL) | 23 |
| Diameter over insulation | 1.02 mm |
| Nominal outer diameter (mm) | 6.4 mm |
| **전기적 특성** | |
| Mutual capacitance | 56 nF/km |
| Characteristic impedance | 100 Ohm |
| 20° C에서 최대 도체 DC저항 | 93.8 Ohm/km |
| **기계적 특성** | |
| Maximum operating pulling force | 100 N |
| **Transmission characteristics** | |
| Skew | 45 ns/100m |
| Propagation delay, max. 100 MHz | 536 ns/100m |
| **사용 특성** | |
| Range | LANmark-6 |
| Field of application | Indoor |
| Length | 305 m |
| 操作温度范围 | -20...60 °C |
| Category | Cat. 6 |
| Packaging | Reel |
| Ambient installation temperature, range | -10...60 °C |
| 최소 굽힘 반지름 - 설치시 (장력작용) | 52 mm |
| 최소 굽힘 반지름 - 설치 후 | 26 mm |

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