

# LANmark-6A Cable GB 31247 B1

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

**Aginode Ref:** N100.638G-GB1

- Ideal cable for 10GBase-T application
- Full compliance to latest standards for Category 6A and Class EA
- Guaranteed performance up to 500MHz
- Special noise control barrier ensured Alien Crosstalk immunity
- GB 31247 B1-(d0,t0.a1) compliance

## Application

LANmark-6A cables are the ideal solution for a 10G Ethernet network. The range has been designed specifically to support the higher frequencies required for 10 Gigabit Ethernet, while maintaining full backwards compatibility with today's needs. All LANmark-6A UTP cable can pass in Alien Crosstalk and other external interferences.

- 10Base-T Ethernet
- 100Base-TX Fast Ethernet
- 1000Base-TX Gigabit Ethernet
- 10GBase-T 10 Gigabit Ethernet IEEE 802.3
- 155 Mbit ATM
- 1.2 Gbit ATM
- future Cat 6A and Class EA applications

## Performance

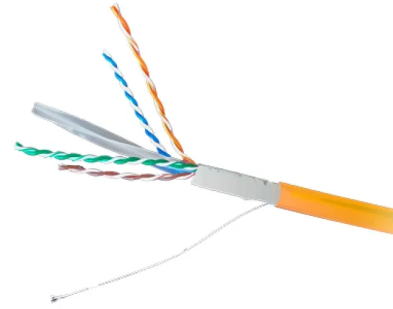
With guaranteed performance to 500MHz, Aginode LANmark-6A cables exceed the requirements of the International, European and American cable standards, including ISO/IEC 11801, IEC 61156-5, EN 50173, EN 50288 and TIA/EIA 568-C.2.

When used in combination with Aginode LANmark-6A UTP connectors and LANmark-6A UTP patch cords, the system supports the 10GBase-T applications as defined in IEEE 802.3an and meets or exceeds the link and channel requirements for Category 6A and Class EA as defined in TIA/EIA 568-C.2 and ISO/IEC 11801.

## Installation

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

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## STANDARDS

ANSI/TIA-568-C.2  
EN 50173-1  
EN 50288-4-1  
GB 31247  
IEC 61156-5  
ISO/IEC 11801

cable's print legend.

## Guarantees

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

Installations with LANmark-6A 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-6A Cable (International)

| Freq<br>in MHz | Attn<br>in dB |      | NEXT<br>in dB |      | PSNEXT<br>in dB |      | ACR-F<br>in dB |      | PS ACR-F<br>in dB |      | PS ANEXT<br>in dB |      | PS AACR-F<br>in dB |      | RL<br>in dB |      |
|----------------|---------------|------|---------------|------|-----------------|------|----------------|------|-------------------|------|-------------------|------|--------------------|------|-------------|------|
|                | Max           | Typ  | Min           | Typ  | Min             | Typ  | Min            | Typ  | Min               | Typ  | Min               | Typ  | Min                | Typ  | Min         | Typ  |
| 1              | 2.1           | 2.1  | 74.3          | 79.3 | 72.3            | 77.3 | 67.8           | 67.8 | 64.8              | 64.8 | 67.0              | 90.0 | 67.0               | 67.7 | 29.0        | 26.0 |
| 4              | 3.8           | 3.8  | 65.3          | 70.3 | 63.3            | 68.3 | 55.8           | 75.8 | 52.8              | 72.8 | 67.0              | 90.0 | 66.2               | 75.9 | 23.0        | 29.0 |
| 10             | 5.9           | 5.9  | 59.3          | 64.3 | 57.3            | 62.3 | 47.8           | 67.8 | 44.8              | 64.8 | 67.0              | 87.0 | 58.2               | 67.9 | 25.0        | 31.0 |
| 16             | 7.5           | 7.5  | 56.2          | 61.2 | 54.2            | 59.2 | 43.7           | 63.7 | 40.7              | 60.7 | 67.0              | 85.0 | 54.1               | 63.8 | 25.0        | 31.0 |
| 20             | 8.4           | 8.4  | 54.8          | 59.8 | 52.8            | 57.8 | 41.8           | 61.8 | 38.8              | 58.8 | 67.0              | 84.0 | 52.2               | 61.9 | 25.0        | 31.0 |
| 31.25          | 10.5          | 10.5 | 51.9          | 56.9 | 49.9            | 54.9 | 37.9           | 57.9 | 34.9              | 54.9 | 67.0              | 82.1 | 48.3               | 58.0 | 23.6        | 29.6 |
| 62.5           | 15.0          | 15.0 | 47.4          | 52.4 | 45.4            | 50.4 | 31.9           | 51.9 | 28.9              | 48.9 | 65.8              | 79.0 | 42.3               | 52.0 | 21.5        | 27.5 |
| 100            | 19.1          | 19.1 | 44.3          | 49.3 | 42.3            | 47.3 | 27.8           | 47.8 | 24.8              | 44.8 | 62.5              | 77.0 | 38.2               | 47.9 | 20.1        | 26.1 |
| 155            | 24.1          | 24.1 | 41.4          | 46.4 | 39.4            | 44.4 | 24.0           | 44.0 | 21.0              | 41.0 | 59.6              | 74.1 | 34.4               | 44.1 | 18.8        | 24.8 |
| 200            | 27.6          | 27.6 | 39.8          | 44.8 | 37.8            | 42.8 | 21.8           | 41.8 | 18.8              | 38.8 | 58.0              | 72.5 | 32.2               | 41.9 | 19.0        | 24.0 |
| 250            | 31.1          | 31.1 | 38.3          | 43.3 | 36.3            | 41.3 | 19.8           | 39.8 | 16.8              | 36.8 | 56.5              | 71.0 | 30.2               | 39.9 | 17.3        | 23.3 |
| 300            | 34.3          | 34.3 | 37.1          | 42.1 | 35.1            | 40.1 | 18.3           | 38.3 | 15.3              | 35.3 | 55.3              | 69.6 | 28.1               | 38.4 | 16.8        | 22.8 |
| 500            | 45.3          | 45.3 | 33.8          | 38.8 | 31.8            | 36.8 | 13.8           | 33.8 | 10.8              | 30.8 | 52.0              | 66.5 | 24.2               | 33.9 | 15.2        | 21.2 |

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

## Caractéristiques

### Caractéristiques de construction

|                  |   |
|------------------|---|
| Couleur          | Orange                                      |
| Gaine extérieure | Faible dégagement de fumée et sans halogène |
| Type de câble    | U/UTP                                       |

### Caractéristiques dimensionnelles

|                               |         |
|-------------------------------|---------|
| Section AWG du conducteur     | AWG 23  |
| Diamètre sur isolation        | 1.12 mm |
| Diamètre externe nominal (mm) | 7.4 mm  |

### Caractéristiques électriques

|  |             |
|--|-------------|
| Capacité effective                           | 56 nF/km    |
| Impédance caractéristique                    | 100 Ohm     |
| Résistance ohmique max. du conducteur à 20°C | 93.8 Ohm/km |

### Caractéristiques mécaniques

|                                 |       |
|---------------------------------|-------|
| Maximum operating pulling force | 100 N |
|---------------------------------|-------|

### Caractéristiques de transmission

|   |             |
|---|-------------|
| Distorsion                              | 45 ns/100m  |
| Retard de propagation maximal à 100 MHz | 536 ns/100m |

### Caractéristiques d'utilisation

|   |             |
|---|-------------|
| Gamme   | LANmark-6A  |
| Température ambiante d'utilisation, plage                 | -20...60 °C |
| Catégorie   | Cat. 6A     |
| Conditionnement   | Reel        |
| Température ambiante lors de l'installation, plage        | -10...60 °C |
| Minimum Bend Radius - During Installation (under Tension) | 60 mm       |
| Rayon de courbure minimum - installé                      | 30 mm       |