# LANmark-6 U/UTP Cable

**LANMARK-6 U/UTP AWG23 CAT 6 350MHZ PVC ECA GREY 305M BOX**

**Aginode Ref:** N100.617-DE

- Comply with all Category 6 cable standards
- Support Class E applications
- Central cross member maintains geometry and performance
- Tested up to 350MHz



## STANDARDS

ANSI/TIA-568-C.2
EN 50173-1
EN 50288
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.
The cables are available with a Dark Grey PVC or an Orange LSZH sheath. Both versions have flame retardant properties compliant with IEC 60332-1 and are compliant with EuroClass Eca according to EN50575:2014 +A1:2016.

EuroClass Dca and Cca versions are also available.

## Performance

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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.

## 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 PVC Eca Grey 305m box

## Characteristics

| | |
|---|---|
| **结构特性** | |
| 颜色 | 灰 |
| 屏蔽 | 非屏蔽 |
| 外护套 | 聚氯乙烯 |
| 电缆类型 | U/UTP |
| **尺寸特性** | |
| 近似重量 | 43 kg/km |
| 导体横截面尺寸（AWG） | 23 |
| 绝缘外径 | 1.02 mm |
| 标称外径 | 6.3 mm |
| **电气特性** | |
| 互电容 | 56 nF/km |
| 特性阻抗 | 100 Ohm |
| 20°C时导体的最大直流电阻 | 85 Ohm/km |
| **机械特性** | |
| 最大操作抗拉强度 | 100 N |
| **传输特性** | |
| 时延值 | 30 ns/100m |
| 衰减串扰比，250MHz | 5.5 dB/100m |
| 传播速度 | 68 % |
| 耦合衰减在30MHz | 45 dB |
| 传播延迟值，最大100MHz | 536 ns/100m |
| **使用特性** | |
| 范围 | LANmark-6 |
| 应用类型 | 室内 |
| 长度 | 305 m |

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| | |
|---|---|
| 操作温度，范围 | -20...60 °C |
| 类型 | Cat. 6 |
| 阻燃 - 火焰 | IEC 60332-1 |
| 包装 | 箱 |
| 环境安装温度，范围 | -10...60 °C |
| 最小弯曲半径 - 安装 | 50 mm |
| 最小弯曲半径 - 工作 | 25 mm |

## 文件

DoP EN N100617-DE pdf — 182 KB 下载

## 业绩声明

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