# LANmark-6A スナップイン・コネクタ

**LANMARK-6A EVO SNAP-IN CONNECTOR CATEGORY 6A 500MHZ SCREENED**



**Aginode Ref:** N420.66A

- High bandwidth RJ45 connector supporting 10 Gigabit Ethernet
- Fully compliant with TIA and ISO Category 6A cabling and connector standards
- Supports very short Category 6A channel configurations, often required in Data Centres
- 360° shielding offering full Alien Crosstalk immunity
- Fast and easy termination without punch down tool
- Wiring according to colour code T568B or T568A
- Accepts solid wire from 24 to 22 AWG
- Stranded version available for CP to TO links (N420.67A)
- Reterminable
- Supports PoE++ Type 4 applications delivering up to 90W/71W (IEEE 802.3bt)
- An adapter can be added to fit the keystone format
- UL listed

## STANDARDS

ANSI/TIA-568-C.2
EN 50173-1
IEC 60603-7-51
IEEE 802.3af (PoE)
IEEE 802.3bt (PoE++)
IEEE 802.3at (PoE+)
ISO/IEC 11801:2002/Amd 1:2008/Cor 1:2008
ISO/IEC 24764
ISO/IEC 11801:2002/Amd 2:2010/Cor 1:2010

## Application

Aginode LANmark-6A Evo Snap-In Connectors are manufactured and tested to the latest Category 6A specifications defined in the International and American cabling standards and are designed to meet or exceed the stringent quality and performance criteria needed to support all applications up to 500 MHz, including 10 Gigabit Ethernet. A fully closed metal rear cover providing 360 degrees shielding offers excellent coupling attenuation and ensures immunity from Alien Crosstalk and other external interferences. Channels built with LANmark-6A cables and jacks do not need on site testing for Alien Crosstalk, as this parameter is met by design. This significantly reduces the installation cost for 10G network cabling.

- 10 BASE-T Ethernet
- 100 BASE-T Fast Ethernet
- 1000 BASE-T Gigabit Ethernet
- 10G BASE-T Gigabit Ethernet IEEE 802.3
- 155 Mbit ATM
- 1.2 Gbit ATM

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- PoE++ Type 4 (IEEE 802.3bt) including IEC 60512-9-3/ed.2 (test 9c) and IEC 60512-99-002/ed.1 draft (test 99b)
- Future Cat 6A and Class EA applications

## Design

Aginode LANmark-6A Evo Snap-In connectors are designed to match with LANmark-6A cable and patch cords and to complement all LANmark modular components, such as:

- Snap-In patch panels (fixed, sliding and angled) and Zone Distribution Boxes
- Snap-In outlet modules (UK, US, European and German style)

## Performance

Aginode LANmark-6A Evo connectors meet or exceed the requirements for Category 6A connecting hardware as described in ISO/IEC 11801, IEC 60603-7-51 and EIA/TIA 568-C.2.
In conjunction with LANmark-6A cable they support all 2, 3 and 4 connector models as specified in these standards, as well as very short link and channel configurations which are increasingly required in Data Centre environments.

## Installation

The wire organiser guarantees fast and easy termination of the LANmark-6A Evo Snap-In connector without the need for a punchdown tool. An optional comfort tool (N420.567) can be used to increase the ease of installation.
A stranded version is available for CP to TO links.

## Guarantees

The LANmark-6A Evo Snap-In performance is guaranteed to meet or exceed the requirements of the above mentioned standards.

Traceability codes on both connector and packaging ensure quality validation.

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

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# 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 | 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 |

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 Evo Snap-In Connector Category 6A 500MHz Screened

## Characteristics

| | |
|---|---|
| **Construction characteristics** | |
| Connector type | RJ45 and Tool-less IDC |
| Screen | Yes |
| **Dimensional characteristics** | |
| Depth | 36.4 mm |
| Height | 23.2 mm |
| Width | 16.8 mm |
| **Usage characteristics** | |
| Category | Cat. 6A |
| Component function | Connector |
| Range | LANmark-6A |

### ドキュメンテーション

Freetable LM6A Channel V2 Part 1_1.xls xls — 20.5 KB　ダウンロード

Freetable LM6A Channel V2 Part 2_1_1.xls xls — 24.5 KB　ダウンロード

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