# Essential-6 Keystone Connector

**ESSENTIAL-6 KEYSTONE CONNECTOR SCREENED**

**Aginode Ref:** N420.136

- Complies with the latest Category 6 standards
- Easy termination without punchdown tool
- Keystone format
- Screened
- EMC rear cover for 360° shielding
- Also available without EMC rear cover
- Also available in unscreened version



## STANDARDS

IEC 60603-7-5
ISO/IEC 11801

## Application

The Aginode Essential-6 keystone connectors are manufactured and tested to the latest Category 6 specifications. They support Class E applications up to 250 MHz. When installed in conjunction with Aginode Category 6 cable, a 25 year Class E Link Certificate can be obtained from the Aginode web site.

## Design

The Essential-6 screened keystone connectors are designed to match with Aginode Category 6 screened cable and patch cords and complement all Essential modular components, such as:

- keystone patch panels (black and white)
- keystone outlet modules (UK, US and European formats)

Please follow the links on this page to view the related datasheets.

The modular jack is designed for keystone footprints of 14.78mm width, 20-20.78mm height and 1.5mm wall thickness and is compatible with a variety of keystone formatted structural hardware. (Please check compatibility with Aginode before using 3rd party hardware)

The Essential-6 connectors can be used with all types of Category 6 cable with solid wire from 24 to 22 AWG.

*All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Aginode is indicative only and shall not be binding on Aginode or be treated as constituting a representation on the part of Aginode.*

# Performance

The Essential-6 keystone connectors are compliant with the specifications of ISO/IEC 11801, EN 50173 and IEC 60603-7.

# Installation

The wire organiser guarantees fast and easy termination of the Essential-6 keystone connector without the need for a punchdown tool. An optional comfort tool (N420.567) can be used to increase the ease of installation.

This Essential-6 screened connector is supplied with a 360° EMC rear cover, which offers full protection against electromagnetic interference and at the same time allows easy termination of the cable drain wire.

- Fast and easy termination without punchdown tool
- Wiring according to colour code T568B or T568A
- Accepts 24, 23 and 22 AWG solid core cables
- Excellent EMC performance
- Easy termination of drain wire
- Fits Aginode hardware designed for keystone format

| Frequency MHz | Insertion Loss dB/100m | NEXT PP dB | PS NEXT dB | ACR dB/100m | PS ACR dB/100m | ELFEXT dB/100m | PSELFEXT dB/100m | Return Loss dB |
|---|---|---|---|---|---|---|---|---|
| 1 | 4,0 | 65,0 | 62,0 | 65,0 | 62,0 | 63,3 | 60,3 | 19,0 |
| 4 | 4,2 | 63,0 | 60,5 | 58,9 | 56,4 | 51,2 | 48,2 | 19,0 |
| 10 | 6,6 | 56,6 | 54,0 | 50,0 | 47,4 | 43,3 | 40,3 | 19,0 |
| 16 | 8,3 | 53,2 | 50,6 | 44,9 | 42,3 | 39,2 | 36,2 | 18,0 |
| 20 | 9,3 | 51,6 | 49,0 | 42,3 | 39,7 | 37,2 | 34,2 | 17,5 |
| 31,25 | 11,7 | 48,4 | 45,7 | 36,7 | 34,0 | 33,4 | 30,4 | 16,5 |
| 62,5 | 16,9 | 43,4 | 40,6 | 26,5 | 23,7 | 27,3 | 24,3 | 14,0 |
| 100 | 21,7 | 39,9 | 37,1 | 18,2 | 15,4 | 23,3 | 20,3 | 12,0 |
| 155 | 27,6 | 36,7 | 33,8 | 9,1 | 6,2 | 19,5 | 16,5 | 10,1 |
| 200 | 31,7 | 34,8 | 31,9 | 3,1 | 0,1 | 17,2 | 14,2 | 9,0 |
| 250 | 35,9 | 33,1 | 30,2 | -2,8 | -5,8 | 15,3 | 12,3 | 8,0 |

| | |
|---|---|
| Contact resistance: | max. 20 m Ohm |
| Input to output DC resistance: | max. 200 m Ohm |
| Insulation resistance: | min. 500 M Ohm |
| Voltage proof: | 1000 V DC or AC peak, contact to contact |
| Mating cycles: | min. 750 |
| Insertion cycles: | min. 20 |
| Insertion and withdrawal force: | max. 20 N |

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# Essential-6 Keystone Connector Screened

## Eigenschaften

| | |
|---|---|
| **Konstruktionsmerkmale** | |
| Verbindertype | RJ45 and Tool-less IDC |
| Schirm | Ja |
| **Abmessungsmerkmale** | |
| Tiefe | 36 mm |
| Höhe | 24.2 mm |
| Breite | 16.8 mm |
| **Anwendungsmerkmale** | |
| Umgebungstemperatur bei Verlegung, Bereich | -10...60 °C |
| Betriebstemperatur | -20...60 °C |
| Bereich | essential-6 |
| Lagertemperatur, Bereich | -20...60 °C |

### Dokumentation

Freetable Cat6 SHIELDED connectors additional characteristics.xls xls — 22 KB Herunterladen

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