

3M

Volition™

RJ45 K5E Jack

The 3M™ Volition™ K5E Jack is a unique and simple Cat. 5e hardware component (TIA/EIA-568 B.2 and ISO/IEC 11801 2nd Edition), utilizing the universally accepted keystone mounting. It offers a quick and reliable Cat. 5e connection as the eight copper conductors are effortlessly terminated in a single operation without tools.

The K5E jack is the core product of 3M's Cat. 5e copper structured cabling solution, offering superior performance over Cat. 5e link standards.

Features

- Category 5e hardware component, UL verified to TIA/EIA-568 B.2 Cat. 5e
- Tool-less connector
- Keystone mounting
- ISO 8877 compliant
- Integral shutter
- Top or bottom cable insertion
- Self-stripping contacts with 1.3µm gold plating
- Either T568A or T568B wiring scheme
- UL listed

A Unique Design

Tool-less jack:

- Easy and quick to install
- Fast reliable connection in record time: all eight copper conductors are effortlessly wired in a single operation
- Quality of connection by design: not dependent on tool condition or operator skills; just listen for the click
- Consistent results: the length of untwisted pairs is always kept to a minimum, by design

Re-usable:

- If a wiring mistake is made, there is no need to use a new jack
- No time wasted waiting for another delivery

Shallow depth, cable entry from top or bottom:

- Easier cable management
- More space and flexibility to ensure the cable minimum bend radius is never compromised
 - Allows a wide range of cable routing options
 - Can be used with low profile trunking and boxes



COMMUNICATIONS CIRCUIT ACCESSORY
ALSO VERIFIED TO TIA/EIA-568-B.2 CAT. 5E
MODEL VOL-0CK5E-U 9KX1

Keystone mounting:

- Compatibility between Volition copper and fiber jacks and many other accessories on the market using standard keystone mounting

Accepts both solid conductors from AWG 26 to 22 and stranded conductors:

- Compatible with all cables on the market and enables "jack to plug" cables to be manufactured using stranded conductors (for use in open office architectures)

Integral shutter:

- Increased dust protection, especially during installation or in a dirty environment
- No additional shuttering required on faceplates
- Allows direct mounting into floor boxes
- Protects jacks in the patch panel

Technical Characteristics

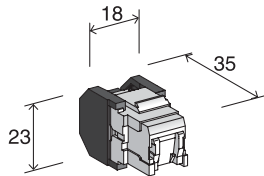
RJ45 Category 5e Hardware test result (worst case)

| | |
|-----------------------|-----------------|
| Frequency | 100 MHz |
| Attenuation | < 0.2 dB |
| Return Loss | 25.8 dB |
| NEXT Pair to Pair | 50.8 dB |
| Ø of the conductors | AWG 26 to 22 |
| Ø of the sheath | 1.60 mm maximum |
| Insulation resistance | > 10 MΩ |

Permanent Link Category 5e Test Result (typical values)

| | Attenuation | NEXT | ELFEXT | Return Loss |
|-----------|-------------|----------|----------|-------------|
| Value | 18.3 dB | 51.7 dB | 30.6 dB | 28.6 dB |
| Margin | 2.7 | 11.4 | 7.3 | 9.6 |
| Frequency | 100 MHz | 32.4 MHz | 58.6 MHz | 4 MHz |

Dimensions: 23 x 18 x 35 mm (0.9 x 0.7 x 1.4 in.)



Ordering Information

| Model Number | Description | Minimum Order Quantity | Packaging |
|----------------|---------------------------|------------------------|-----------------------------|
| VOL-OCK5E-U-W | RJ45 K5E Jack UTP, white | 1 carton | Carton of 96 (12 bags of 8) |
| VOL-OCK5E-U-BL | RJ45 K5E Jack UTP, blue | 1 carton | Carton of 96 (12 bags of 8) |
| VOL-OCK5E-U-G | RJ45 K5E Jack UTP, green | 1 carton | Carton of 96 (12 bags of 8) |
| VOL-OCK5E-U-R | RJ45 K5E Jack UTP, red | 1 carton | Carton of 96 (12 bags of 8) |
| VOL-OCK5E-U-Y | RJ45 K5E Jack UTP, yellow | 1 carton | Carton of 96 (12 bags of 8) |
| VOL-OCK5E-U-BK | RJ45 K5E Jack UTP, black | 1 carton | Carton of 96 (12 bags of 8) |
| VOL-OCK5E-U-O | RJ45 K5E Jack UTP, orange | 1 carton | Carton of 96 (12 bags of 8) |
| VOL-OCK5E-U-AL | RJ45 K5E Jack UTP, almond | 1 carton | Carton of 96 (12 bags of 8) |

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