

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



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

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

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

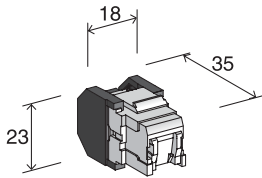
RJ45 Category 5e Hardware test result (worst case)

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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Telecom Enterprise Department
3M Telecommunications

6801 River Place Blvd.
Austin, TX 78726-9000
800-695-0447
FAX 800-626-0329
www.3MTelecommunications.com



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