

# 3M

## Volition™

### RJ45 K6 Jack

The 3M™ Volition™ K6 jack is a unique and simple Cat. 6 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. 6 connection as the eight copper conductors are effortlessly terminated in a single operation without tools.

The K6 jack is the core product of 3M's Cat. 6 copper structured cabling solution, offering superior performance over Cat. 6 link standards.

#### Features

- Category 6 hardware component, 3rd party (Delta) verified to TIA/EIA-568 B.2 Cat. 6
- Tool-less connector
- Keystone mounting
- ISO 8877 compliant
- Integral shutter
- Top or bottom cable insertion
- Self-stripping contacts with 1.3µm gold plating
- Either TS68A or TS68B 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

#### 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:

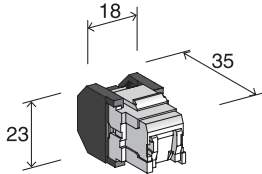
- Increased dust protection, especially during installation or in a dirty environment
- No additional shuttering required on faceplates
- Allows direct mounting into floor boxes
- Protects jacks in the patch panel

# Technical Characteristics

## RJ45 Category 6 Hardware test result (worst case)

Frequency	100 MHz	200 MHz	250 MHz
Attenuation	< 0.2 dB	< 0.2 dB	< 0.3 dB
Return Loss	24 dB	18.5 dB	16 dB
NEXT Pair to Pair	58 dB	50 dB	47.5 dB
∅ of the conductors	AWG 26 to 22		
∅ of the sheath	1.60 mm maximum		
Insulation resistance	> 10 MΩ		

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-OCK6-U-W	RJ45 K6 Jack UTP, white	1 carton	Carton of 96 (12 bags of 8)
VOL-OCK6-U-BU	RJ45 K6 Jack UTP, blue	1 carton	Carton of 96 (12 bags of 8)
VOL-OCK6-U-G	RJ45 K6 Jack UTP, green	1 carton	Carton of 96 (12 bags of 8)
VOL-OCK6-U-R	RJ45 K6 Jack UTP, red	1 carton	Carton of 96 (12 bags of 8)
VOL-OCK6-U-Y	RJ45 K6 Jack UTP, yellow	1 carton	Carton of 96 (12 bags of 8)
VOL-OCK6-U-BL	RJ45 K6 Jack UTP, black	1 carton	Carton of 96 (12 bags of 8)
VOL-OCK6-U-O	RJ45 K6 Jack UTP, orange	1 carton	Carton of 96 (12 bags of 8)
VOL-OCK6-U-AL	RJ45 K6 Jack UTP, almond	1 carton	Carton of 96 (12 bags of 8)

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