



# Volition™

## RJ45 K5e Jacks



RJ45 K5e Jacks UTP

Part of our 3M™ Volition™ Network Solutions, the new K5e range is our ultimate Category 5e hardware component (ISO/IEC 11801, EN 50173 and ANSI/TIA/EIA-568), with keystone mounting.

The K5e jack is a core product in our system solution, which includes a comprehensive range of keystone patch panels, sockets and faceplates, Category 5e patch cords and cables. The K5e jack offers the best margin over Class D / Category 5e link standards.

**The RJ45 K5e jack is available in three different formats:**

- UTP
- FTP with drain wire
- STP 360° braid or foil connection

### A unique design:

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#### Features

- Tool-less jack:
- Re-usable
- Shallow Depth, Cable Entry from top or bottom:
- Keystone Mounting:
- UTP, FTP and STP 360° shielded versions have the same "one-click" tool-less design:
- Accepts both solid conductors from AWG 26 to 22 and stranded conductors:
- Integral shutter:

#### Benefits

- Easy and quick to install
- Fast reliable connection in record time: all 8 copper conductors are effortlessly wired in a single operation
- Quality of connection by design: not dependant on tool condition or operator skills, just listen for the click
- Consistent results: the length of untwisted pairs and the length between the end of the conductor and the IDC contacts are always kept to a minimum, by design
- If a wiring mistake is made there is no need to use a new jack
- No time wasted waiting for another delivery
- 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
- Compatibility between Volition copper and fibre jacks and many other accessories on the market using the standard keystone mounting
- Solutions for all levels of EMC protection using the same accessories means less training
- 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)
- Increased dust protection, especially during installation or in a dirty environment
- No additional shuttering required on faceplates
- Higher port density
- Allows direct mounting into floor boxes
- Protects jacks in the patch panel

# Specifications

## Features

- Cat 5e hardware component
- Keystone mounting
- IEC 60603-7-2 compliant
- Integral shutter
- Single forked contacts
- Conductor diameter: 0,50 mm to 0,65 mm solid copper, 7x0,15 to 0,20 mm stranded cable
- Sheath diameter: 1,6 mm max

## Technical characteristics

- Lead-through resistance  $17\text{ m}\Omega < \text{Resistance} < 20\text{ m}\Omega$
- Insulation resistance  $> 10\text{ M}\Omega$

### RJ-45 Category 5e Hardware test result (Typical values)

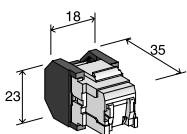
Frequency	100 MHz
Attenuation	< 0.2 dB
Return Loss	24 dB
NEXT pair to pair	49 dB

### Permanent Link 5e / Class D test result (Typical values)

	Attenuation	NEXT	ELFEXT	Return Loss
Value	17.9 dB	52.6 dB	35.4 dB	25.2 dB
Margin	3.1 dB	7.9 dB	8.6 dB	6.4 dB
Frequency	99.4 MHz	17.4 MHz	39.2 MHz	21.2 MHz

## Ordering Information

## Ref.-No.

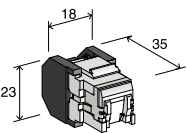


### Volition™ RJ45 K5e Jack, Category 5e, UTP, white

8 contacts  
Item/unit: 1

UTP jacks are also available in blue, green, red, yellow, black, orange and almond

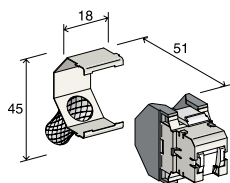
VOL-OCK5E-U



### Volition™ RJ45 K5e Jack, Category 5e, FTP, white

8 contacts and a ninth point to ensure the grounding continuity  
Item/unit: 1

VOL-OCK5E-F



### Volition™ RJ45 K5e Jack, Category 5e, FTP white and metallic shield

8 contacts, metallic nose and tinned bronze cover shielded by reservible metal cover. Supplied with a fixing colar continuity  
Item/unit: 1

VOL-OCK5E-S

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