



Volition™

RJ45 K6 Jacks



RJ45 K6 Jacks

Part of our 3M™ Volition™ Network Solutions, the new K6 range is our ultimate Category 6 hardware component (ISO/IEC 11801, EN 50173 and ANSI/TIA/EIA-568), with Keystone mounting.

The K6 jack is a core product in our system solution, which includes a comprehensive range of Keystone patch panels, sockets and faceplates, Category 6 patch cords and cables. The K6 Jack offers the best margin over Class E / Category 6 link standards.

The RJ45 K6 jack is available in three different formats:

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

A unique design:

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

- Category 6 hardware component
- Keystone mounting
- IEC 60603-7 compliant
- Integral shutter
- Single forked contacts
- Conductor diameter: 0,50 mm to 0,65 mm solid copper,
7 x 0,15 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 6 Hardware test result (Typical values)

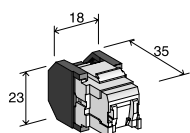
Frequency	100 MHz	200 MHz	250 MHz
Attenuation	$< 0.2\text{ dB}$	$< 0.2\text{ dB}$	$< 0.3\text{ dB}$
Return Loss	24 dB	18.5 dB	16 dB
NEXT pair to pair	58 dB	50 dB	47.5 dB

Permanent Link Class E test result (Typical values)

	Attenuation	NEXT	ELFEXT	Return Loss
Value	29.5 dB	43.4 dB	22.2 dB	25.3 dB
Margin	1.0 dB	8.1 dB	5.9 dB	4.3 dB
Frequency	250 MHz	250 MHz	250 MHz	4 MHz

Ordering Information

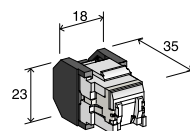
Ref.-No.



Volition™, RJ45 K6 Jack, Category 6, UTP, white
8 contacts
Item/unit: 1

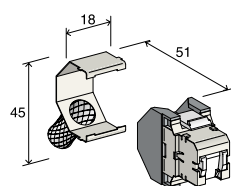
VOL-OCK6-U

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



Volition™, RJ45 K6 Jack, Category 6, FTP, white
8 contacts
Ninth point for grounding continuity
Item/unit: 1

VOL-OCK6-F



Volition™, RJ45 K6 Jack, Category 6, STP, white and metallic shield
8 contacts
Metallic nose and tinned bronze cover
shielded by a reversible metal cover
Supplied with a fixing collar
Item/unit: 1

VOL-OCK6-S

3M and Volition are trademarks of 3M. Quante is a trademark of Quante AG.

Important Notice

3M does not accept responsibility or liability, direct or consequential arising from reliance upon any information provided and the user should determine the suitability of the products for their intended use. Nothing in this statement will be deemed to exclude or restrict 3M's liability for death or personal injury arising from its negligence. All questions of liability relating to 3M products are governed by the seller's terms of sale subject where applicable to the prevailing law.

If any goods supplied or processed by or on behalf of 3M prove on inspection to be defective in material or workmanship, 3M will (at its option) replace the same or refund to the Buyer the price of the goods or services. Except as set out above, all warranties and conditions, whether express or implied, statutory or otherwise are excluded to the fullest extent permissible at law.



Quante AG

3M Telecommunications

Uellendahler Str. 353 · D-42109 Wuppertal

Tel.: ++49 (0)202/ 292 - 0

Fax: ++49 (0)202/ 292 - 2893

3M Quante Telecommunications Ltd.

Snailwell Business Park

Fordham Road · Snailwell · Cambridgeshire CB8 7NY/UK

Tel.: ++44 (0)1638/ 721333

Fax: ++44 (0)1638/ 720900