

Data Sheet

3M™ Volition™ RJ45 K6 Jacks



RJ45 K6 Jack

Part of 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

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

- Cat 6 hardware component
- Keystone mounting
- IEC 60603-7 compliant
- Integral shutter
- Single forked contacts
- Conductor diameter: 0.50mm to 0.65mm solid copper, 7 x 0.15 to 0.20mm stranded cable
- Sheath diameter: 1.6mm max

Technical characteristics

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

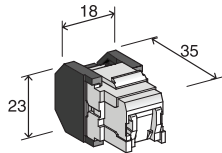
RJ45 Category 6 hardware test result (typical values)

Frequency	100MHz	200MHz	250MHz
Attenuation	<0.2dB	<0.2dB	<0.3dB
Return loss	24dB	18.5dB	16dB
NEXT pair to pair	58dB	50dB	47.5dB

Permanent Link Class E test result (typical values)

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

Ordering information



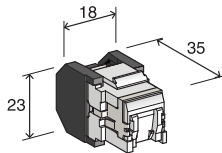
Volition™ RJ45 K6 Jack, Category 6, UTP, white

8 contacts
Item/unit: 1

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

Ref No

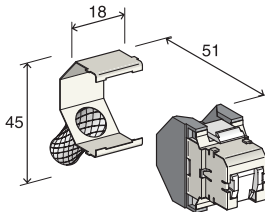
VOL-OCK6-U



Volition™ RJ45 K6 Jack, Category 6, FTP, white

8 contacts
Ninth point to ensure 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

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.



3M Headquarters

3M United Kingdom PLC
3M Centre
Cain Road
Bracknell
Berkshire, RG12 8HT

3M Customer Contact Centre

3M Telecommunications
3M United Kingdom PLC
Tel: 0870 609 4639
Email: 3Melectrouk@mmm.com
www.3M.co.uk/telecommunications

3M and Volition are trademarks of the 3M Company.
Please recycle. Printed in UK. © 3M 2010.
All rights reserved to make technical alterations.
07-404-64100/25.03.2010