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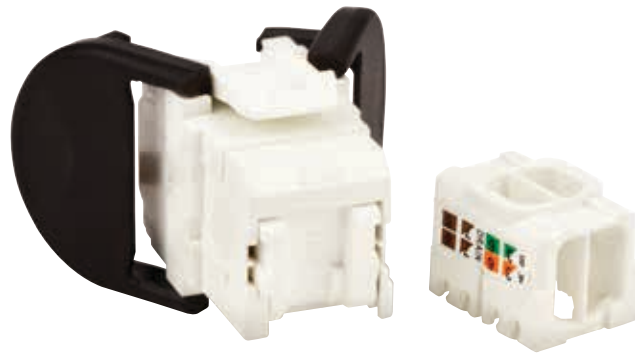
Communication Markets Division

3M™ Category 6 Copper Interconnect Products

3M™ RJ45 Jacks-UTP

3M™ Copper Patch Cords

3M™ Copper Patch Panels

3M™ Faceplates & Wall Outlets

3M Category 6 copper interconnect products work together to provide an easy-to-use solution for deploying high-speed connections throughout a building.

The 3M™ RJ45 Jack is a key component in this system, fully compliant with Category 6 TIA, ISO/IEC and EN standards for hardware performance, confirmed by independent laboratory certifications (Delta, GHMT). The jack's unique three cable entry points help make installation simple. The traditional one-click design enables an easy, tool-less termination on Cat. 6 U/UTP cables, meeting industry performance standards.

Features	Benefits
Tool-less jack	Easy and quick to install. Fast, reliable connection. All 8 copper conductors are wired in a single operation. Quality of connection by design: Not dependent on tool condition or operator skills, just listen for the click.
Three cable entry points	Easier cable management. More space and flexibility to ensure the cable minimum bend radius is not compromised. Enables a wide range of cable routing options. Easy to use in tight spaces.
Reusable	If a wiring mistake is made, there is no need to use a new jack, which means virtually no wasted inventory.
No untwisting of pairs before termination	Minimized stripping length so that pairs are kept together. Easy fitting of the pairs without threading through a wire guide.
Clip-in mounting	RJ45 modular jack design can fit many other accessories on the market using the standard clip-in mounting.
Accepts both solid conductors from AWG 26-22 and stranded conductors	Compatible with many 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.

Specifications	
Standards compliance Hardware performance	ANSI/TIA/568-C.2 ISO/IEC 11801 Edition 2, Am 1-2 ISO/IEC 60603-7-5 EN 50173-1
Electrical performance Compliance Operating voltage Lead through resistance Insulation resistance	PoE+ IEEE 802.3at < 75 VDC < 200 MΩ > 500 MΩ
Environmental compliance Flame rating Operating temperature	UL 94 V-0 -10° C to +60° C (+14° F to +140° F)
Mechanical specifications Conductor diameter **Max. diameter of wire insulation** Protection contacts	Solid wires: 0.50 to 0.65 mm (26-22 AWG) Stranded wires: 7.0x 0.15 to 0.20 mm 1.6 mm 1.27 μm

3M™ RJ45 Jack Ordering Information

Product Number	Description	3M ID	Min. Order
VOL-OCK6-UH8	3M RJ45 K6 UTP Jack	FQ-1000-3145-6	6 bags of 8 jacks
VOL-OCK6-UHV	3M RJ45 K6 UTP Jack	FQ-1000-3144-9	1 bulk pack of 480

3M™ Category 6 Copper Patch Cords

3M Copper Patch Cords help enable you to complete your channel to Category 6 (ANSI/TIA 568-C.2 and class E ISO 11801/EN50173). They are constructed with UTP stranded cable, PVC CM rated jacket and snagless latch to ensure durability. These patch cords are available in a variety of lengths and colors for easy cable management and administration.

3M™ Copper Patch Cord

Features	Benefits
Optimized for 3M RJ45 Cat. 6 jacks	Offers excellent channel performance
Molded "snagless" boot	Better mechanical protection avoids broken latches
Various lengths and colors	Options to complete systems to your requirements
UTP stranded PVC cable	Flexible and durable
UL listed	Code compliance

Specifications	
Standards compliance	ANSI/TIA 568-C.2 ISO 1180 (this implies IEC 60603-7-4)
Electrical performance Cable impedance	100 Ω
Environmental compliance Flammability Fire rating Operating temperature Transport and storage temperature	UL94-V0 CM rated per UL-1685 -20°C to +60°C 0°C to +50°C
Mechanical specifications Durability	750 matings

3M™ Copper Patch Cords Ordering Information

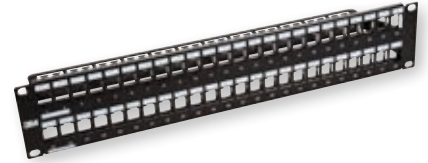| Product Number	Product Descriptions	Packaging	3M ID
C06UC-BL001	Cat. 6, RJ45 CM 24AWG, stranded, blue, 1 m (3.3 ft)	80-6114-7977-7	24
C06UC-BL002	Cat. 6, RJ45 CM 24AWG, stranded, blue, 2 m (6.6 ft)	80-6114-8374-6	12
C06UC-BL003	Cat. 6, RJ45 CM 24AWG, stranded, blue, 3 m (9.8 ft)	80-6114-7978-5	12
C06UC-BL005	Cat. 6, RJ45 CM 24AWG, stranded, blue, 5 m (16.4 ft)	80-6114-7979-3	12
C06UC-BL010	Cat. 6, RJ45 CM 24AWG, stranded, blue, 10 m (32.8 ft)	80-6114-7980-1	12
C06UC-GR001	Cat. 6, RJ45 CM 24AWG, stranded, green, 1 m (3.3 ft)	80-6114-7981-9	24
C06UC-BL002	Cat. 6, RJ45 CM 24AWG, stranded, blue, 2 m (6.6 ft)	80-6114-8374-6	12
C06UC-GR003	Cat. 6, RJ45 CM 24AWG, stranded, green, 3 m (9.8 ft)	80-6114-7982-7	12
C06UC-GR005	Cat. 6, RJ45 CM 24AWG, stranded, green, 5 m (16.4 ft)	80-6114-7983-5	12
C06UC-GR010	Cat. 6, RJ45 CM 24AWG, stranded, green, 10 m (32.8 ft)	80-6114-7984-3	12
C06UC-OR001	Cat. 6, RJ45 CM 24AWG, stranded, orange, 1 m (3.3 ft)	80-6114-8001-5	24
C06UC-BL002	Cat. 6, RJ45 CM 24AWG, stranded, blue, 2 m (6.6 ft)	80-6114-8374-6	12
C06UC-OR003	Cat. 6, RJ45 CM 24AWG, stranded, orange, 3 m (9.8 ft)	80-6114-8002-3	12
C06UC-OR005	Cat. 6, RJ45 CM 24AWG, stranded, orange, 5 m (16.4 ft)	80-6114-8003-1	12
C06UC-OR010	Cat. 6, RJ45 CM 24AWG, stranded, orange, 10 m (32.8 ft)	80-6114-8004-9	12
C06UC-RD001	Cat. 6, RJ45 CM 24AWG, stranded, red, 1 m (3.3 ft)	80-6114-7993-4	24
C06UC-RD002	Cat. 6, RJ45 CM 24AWG, stranded, red, 2 m (6.6 ft)	80-6114-8378-7	12
C06UC-RD003	Cat. 6, RJ45 CM 24AWG, stranded, red, 3 m (9.8 ft)	80-6114-7994-2	12
C06UC-RD005	Cat. 6, RJ45 CM 24AWG, stranded, red, 5 m (16.4 ft)	80-6114-7995-9	12
C06UC-RD010	Cat. 6, RJ45 CM 24AWG, stranded, red, 10 m (32.8 ft)	80-6114-7996-7	12
C06UC-SL001	Cat. 6, RJ45 CM 24AWG, stranded, slate, 1 m (3.3 ft)	80-6114-8005-6	24
C06UC-SL002	Cat. 6, RJ45 CM 24AWG, stranded, slate, 2 m (6.6 ft)	80-6114-8381-1	12
C06UC-SL003	Cat. 6, RJ45 CM 24AWG, stranded, slate, 3 m (9.8 ft)	80-6114-8006-4	12
C06UC-SL005	Cat. 6, RJ45 CM 24AWG, stranded, slate, 5 m (16.4 ft)	80-6114-8007-2	12
C06UC-SL010	Cat. 6, RJ45 CM 24AWG, stranded, slate, 10 m (32.8 ft)	80-6114-8008-0	12
C06UC-TN001	Cat. 6, RJ45 CM 24AWG, stranded, tan, 1 m (3.3 ft)	80-6114-7997-5	24
C06UC-TN002	Cat. 6, RJ45 CM 24AWG, stranded, tan, 2 m (6.6 ft)	80-6114-8379-5	12
C06UC-TN003	Cat. 6, RJ45 CM 24AWG, stranded, tan, 3 m (9.8 ft)	80-6114-7998-3	12
C06UC-TN005	Cat. 6, RJ45 CM 24AWG, stranded, tan, 5 m (16.4 ft)	80-6114-7999-1	12
C06UC-TN010	Cat. 6, RJ45 CM 24AWG, stranded, tan, 10 m (32.8 ft)	80-6114-8000-7	12
C06UC-WH001	Cat. 6, RJ45 CM 24AWG, stranded, white, 1 m (3.3 ft)	80-6114-7989-2	24
C06UC-WH002	Cat. 6, RJ45 CM 24AWG, stranded, white, 2 m (6.6 ft)	80-6114-8377-9	12
C06UC-WH003	Cat. 6, RJ45 CM 24AWG, stranded, white, 3 m (9.8 ft)	80-6114-7990-0	12
C06UC-WH005	Cat. 6, RJ45 CM 24AWG, stranded, white, 5 m (16.4 ft)	80-6114-7991-8	12
C06UC-WH010	Cat. 6, RJ45 CM 24AWG, stranded, white, 10 m (32.8 ft)	80-6114-7992-6	12
C06UC-YL001	Cat. 6, RJ45 CM 24AWG, stranded, yellow, 1 m (3.3 ft)	80-6114-7985-0	24
C06UC-YL002	Cat. 6, RJ45 CM 24AWG, stranded, yellow, 2 m (6.6 ft)	80-6114-8376-1	12
C06UC-YL003	Cat. 6, RJ45 CM 24AWG, stranded, yellow, 3 m (9.8 ft)	80-6114-7986-8	12

3M™ Patch Panels

3M™ Copper Patch Panels are modular and provide an aesthetically pleasing solution for housing modular jacks. These lightweight, aluminum panels are compatible with 3M™ RJ45 K6 or K5E Jacks as well as typical industry accepted modular jacks. 1RU, 24-port patch panels are available in either angled, flat versions, and a 2RU, 48-port patch panel is available in a flat version only. All models include integral cable management.

3M™ Copper Patch Panel 1RU, 24-port

3M™ Copper Patch Panel Ordering Information

Product Number	Description	3M ID	Min. Order
VOL-PPCB-A24K	Angled patch panel with 24 ports, black	DE-6200-4578-6	1
VOL-PPCB-F24K	Patch panel with 24 ports, black	FQ-1000-6881-3	1
VOL-PPCB-F48K	Patch panel with 48 ports, black	FQ-1000-6883-9	1

3M™ Copper Patch Panel 2RU, 48-port
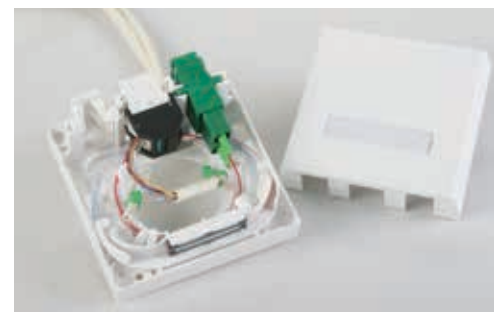
3M™ Faceplates & Outlets

3M™ Faceplates are compatible with single-gang electrical wall boxes and are available in 2-port and 4-port versions. These faceplates are convex in shape and are compatible with 3M™ RJ45 Modular Jacks. Port icons for port identification as well as label windows are included. Available in office white and bright white.The 3M™ Modular Outlet 8686 can accommodate one 3M RJ45 modular jack, as well as four SC fiber adapters or two fiber splices.

3M™ Angled Copper Patch Panel 1RU, 24-port

3M™ Faceplates & Wall Outlets Ordering Information

Product Number	Description	3M ID
8686	Surface-mount wall outlet with room for 2 connectors SC and 1 RJ45 Jack	XS-0038-0066-0
VOL-0712B	Faceplate, 2-port, RJ45, bright white	MY-0000-5711-6
VOL-0712	Faceplate, 2-port, RJ45, office white	MY-0000-5712-4
VOL-0714B	Faceplate, 4-port, RJ45, bright white	MY-0000-5713-2
VOL-0714	Faceplate, 4-port, RJ45, office white	MY-0000-5714-0

3M™ Wall Outlet with 3M™ Modular Adapter 8687 SC Inserts

3M™ Modular Outlet 8686 shown with 2 SC connectors and a 3M™ RJ45 Jack.

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