Cat6 UTP CMR Pre-Terminated Copper Trunk

6 × RJ45 Female / Female | 10 ft (3 m) | Unshielded Cat6 | CMR Riser-Rated PVC



1. GENERAL DESCRIPTION

Cat6 UTP pre-terminated copper trunk is a factory-assembled, factory-tested link made of six Category 6 unshielded cables bundled together and terminated at both ends with RJ45 female jacks. Each end therefore provides six ports (6 × RJ45 F/F), so six Gigabit channels can be run between two patch panels, cassettes or racks in a single, tidy pull, with ready-made patch cords connecting the equipment. The CMR riser-rated jacket makes it suitable for data centers, equipment rooms and building risers, saving installation time and ensuring consistent, tested performance.

2. KEY FEATURES

- Plug-and-play: six pre-terminated, pre-tested channels in one trunk, with RJ45 female jacks at both ends
- Cat6 UTP cable (250 MHz) for 1000BASE-T and PoE / PoE+, and short-reach 10GBASE-T
- CMR riser-rated PVC jacket for use in building riser and vertical-shaft installations [confirm listing]
- Fixed length 10 ft (3 m); other lengths available on request
- Cat6 RJ45 jacks, each port numbered 1–6 at both ends for easy identification
- 100 % factory tested: wiremap, continuity and shield; test report available

3. APPLICATIONS

- Data centre trunking between equipment racks, patch panels and cassette housings
- Switch-to-patch-panel and rack-to-rack links; 1000BASE-T, short 10GBASE-T and PoE / PoE+ connections
- Rapid deployment, moves-adds-changes and structured-cabling upgrades

4. APPLICABLE STANDARDS & COMPLIANCE

- ANSI/TIA-568.2-D — Category 6 cable and connecting hardware
- ISO/IEC 11801 — Class E generic cabling; IEC 61156-5 (cable); IEC 60603-7-4 (RJ45 jack)
- UL 444 / NEC Article 800 — Type CMR (riser) communications cable [confirm listing and file no.]
- UL 1666 — Vertical shaft flame test; RoHS [Compliant — Directive 2011/65/EU]

5. CONSTRUCTION & MATERIALS

Trunk Configuration	6 × Cat6 UTP cables, bundled, [loose / sleeved in protective braided sleeve]
Cable	Cat6 UTP, 4 pairs, solid [23 / 24 AWG] bare copper

Screening	None (U/UTP — unshielded)
Outer Jacket	CMR-rated PVC (riser), colour [Grey / Blue]
Connector — End A	6 × RJ45 (8P8C) Cat6 UTP female jacks, [in-line coupler / module housing]
Connector — End B	6 × RJ45 (8P8C) Cat6 UTP female jacks, [in-line coupler / module housing]
Jack Contacts	Phosphor bronze, gold-plated — [50 µin / 1.27 µm]
Wiring	Straight-through, T568B, 1:1 at both ends
Labelling	Port numbers 1–6 at each end; [cable ID label]

6. ELECTRICAL CHARACTERISTICS (PER CHANNEL)

Characteristic Impedance	100 Ω ± [15 Ω]
Max. DC Resistance (per conductor)	[≤ 9.38 Ω/100 m, scaled to length]
Max. DC Resistance Unbalance	5 %
Rated Frequency	Up to 250 MHz (Category 6)
Contact Resistance (jack)	[≤ 20 mΩ]
Insulation Resistance	[≥ 500 MΩ]
Dielectric Withstand (1 min)	[1000 V AC]
Max. Operating Voltage	[72 V]

7. TRANSMISSION PERFORMANCE

Frequency (MHz)	Cable IL — max (dB/100 m)	Cable NEXT — min (dB)	Cable PS NEXT — min (dB)
1	2.0	74.3	72.3
4	3.8	65.3	63.3
10	6.0	59.3	57.3
31.25	10.7	51.9	49.9
62.5	15.4	47.4	45.4
100	19.8	44.3	42.3
250	32.8	38.3	36.3

8. INSTALLATION & HANDLING GUIDELINES

- Pull the trunk by the cable bundle using the protective pulling sock; never pull by the jacks or connector housings.
- Do not exceed the min. bending radius (4 × OD) or the max. pulling tension, and avoid kinks, crushing and tight cable ties.
- Mount each end jack module in a compatible patch panel or cassette housing, and connect equipment with Cat6 (or higher) patch cords.
- Use Cat6 (or higher) patch cords to connect equipment, and keep total channel length within 100 m (max. 10 m of patch cords).
- Keep data cables separated from power cables per EN 50174-2 / TIA-569, and test every channel after installation.