Cat5e UTP CMR Pre-Terminated Copper Trunk

6 × RJ45 Male / Male | 10 ft (3 m) | Unshielded Cat5e | CMR Riser-Rated PVC



1. GENERAL DESCRIPTION

Cat5e UTP pre-terminated copper trunk is a factory-assembled, factory-tested link made of six Category 5e unshielded cables bundled together and terminated at both ends with RJ45 male plugs. Each end therefore provides six plugs (6 × RJ45 M/M), so six Gigabit channels can be connected directly between switch ports, patch panels or cassettes in a single, tidy run. The CMR riser-rated jacket makes it suitable for data centres, 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 male plugs at both ends
- Cat5e UTP cable (100 MHz) for 10/100/1000BASE-T and PoE / PoE+
- 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
- Snagless RJ45 plugs with boots, each plug numbered 1–6 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; 10/100/1000BASE-T and PoE / PoE+ connections
- Rapid deployment, moves-adds-changes and structured-cabling upgrades

4. APPLICABLE STANDARDS & COMPLIANCE

- ANSI/TIA-568.2-D — Category 5e cable and connecting hardware
- ISO/IEC 11801 — Class D generic cabling; IEC 61156-5 (cable); IEC 60603-7 (RJ45 plug)
- 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 × Cat5e UTP cables, bundled, [loose / sleeved in protective braided sleeve]
Cable	Cat5e UTP, 4 pairs, solid [24 AWG] bare copper
Screening	None (U/UTP — unshielded)
Outer Jacket	CMR-rated PVC (riser), colour [Grey / Blue]
Connector — End A	6 × RJ45 (8P8C) Cat5e UTP male plugs with snagless boots

Connector — End B	6 × RJ45 (8P8C) Cat5e UTP male plugs with snagless boots
Plug Contacts	Phosphor bronze, gold-plated — [50 µin / 1.27 µm]
Wiring	Straight-through, T568B, 1:1 at both ends
Labelling	Plug 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 100 MHz (Category 5e)
Contact Resistance (plug)	[≤ 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	65.3	62.3
4	4.1	56.3	53.3
10	6.5	50.3	47.3
16	8.2	47.2	44.2
31.25	11.7	42.9	39.9
62.5	17.0	38.4	35.4
100	22.0	35.3	32.3

8. INSTALLATION & HANDLING GUIDELINES

- Pull the trunk by the cable bundle using the protective pulling sock; never pull by the plugs or boots.
- Do not exceed the min. bending radius (4 × OD) or the max. pulling tension, and avoid kinks, crushing and tight cable ties.
- Plug each RJ45 plug into a Cat5e (or higher) jack or port, and take care not to force the latches.
- Use Cat5e (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.