UTP KSJ-to-Plug Pre-Terminated Copper Trunk

6 × Keystone Jack (KSJ) to 6 × RJ45 Plug | Cat6 UTP | [10 ft (3 m) / custom lengths]



1. GENERAL DESCRIPTION

UTP KSJ-to-plug copper trunk is a factory-assembled, factory-tested link made of six Category 6 unshielded cables bundled together. One end is terminated with six keystone jacks (KSJ) that snap straight into a patch panel, faceplate or cassette housing, and the other end with six RJ45 male plugs with snagless boots that connect directly to switch or equipment ports. It removes the need for field termination on the plug end, giving six consistent, tested Gigabit channels in a single, tidy pull and saving installation time.

2. KEY FEATURES

- Plug-and-play: six pre-terminated, pre-tested channels in one trunk, with keystone jacks on one end and RJ45 plugs on the other
- Cat6 UTP cable (250 MHz) for 1000BASE-T and PoE / PoE+, and short-reach 10GBASE-T
- Jacket: [CMR riser-rated PVC / LSZH] — confirm listing
- Standard length [10 ft (3 m)]; other lengths available on request
- KSJ end snaps into standard keystone openings; plug end has snagless boots; each channel numbered 1–6
- 100 % factory tested: wiremap, continuity and shield; test report available

3. APPLICATIONS

- Data centre trunking between equipment racks, patch panels and cassette housings
- Direct connection from a patch panel or cassette (KSJ end) to switches and equipment (plug end); 1000BASE-T, short 10GBASE-T and PoE / PoE+
- 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 plug)
- UL 444 / NEC Article 800 — Communications cable type [CMR / CM — confirm listing and file no.]
- UL 1666 / IEC 60332-1 — Flame test [confirm]; 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) / LSZH], colour [Grey / Blue]
Connector — End A (KSJ)	6 × Cat6 UTP keystone jacks (female, snap-in), [pre-terminated on 110 / IDC]
Connector — End B (Plug)	6 × RJ45 (8P8C) Cat6 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 250 MHz (Category 6)
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	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, 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.
- Snap each keystone jack into a patch panel, faceplate or cassette opening until it clicks, then plug the RJ45 end into the equipment port without forcing the latch.
- 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.