

Cat6 Patch Cord

Cat6 Round UTP Ethernet Patch Cable - 8P8C Round Solid Conductor, High-Flex

**Key specifications**

Category	Cat6
Bandwidth	250 MHz
Conductor Material	100% Copper (Solid)
Conductor Gauge	23 AWG

Product summary

Factory-Direct Cat6 UTP Round Patch Cable

- **Round solid conductor** – Better for drag chains, moving equipment, high-flex environments
- **Cat6 250MHz bandwidth** – Full Gigabit Ethernet support, 10G short-run compatible
- **8P8C connectors** – 3-prong 50μ" gold-plated contacts, staggered layout with load bar
- **100% virgin PC housing** – UL94V-2 flame retardant, crystal clear, no recycled resin
- **Custom lengths & colors** – Bulk packing, OEM/ODM, private label available
- **100% Fluke DSX tested** – NEXT, return loss, crosstalk guaranteed

Product page:<https://www.cnplugs.com/product/cat6-round-utp-ethernet-patch-cable/>**Category:** Cat6 Patch Cord

Contact & technical support

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Business hours	Monday-Saturday, 08:30-18:00 (UTC+8)
Contact page	www.cnplugs.com/contact-us/

Product details

[Inquire Now - Get Quote in 24h](#) [Chat on WhatsApp](#)

Why Choose Round Cable Over Flat for Your Application

Flat Ethernet patch cables are popular for clean cable management in server racks and office installations. However, they have a critical limitation: **flat cables use thin, individually insulated conductors that are not designed for repeated bending.**

Our **Cat6 Round UTP Ethernet Patch Cable** uses **round solid conductors** in a traditional round jacket. This construction offers superior performance in:

[Ideal Applications for Round Patch Cables](#)

- **Drag chain systems** in CNC machines and automation equipment
- **Moving equipment** like robot arms, AGVs, and mobile workstations
- **High-flex environments** where cables are frequently bent or twisted
- **Industrial control panels** with limited routing space
- **Temporary installations** like trade shows, events, and testing setups
- **Outdoor or harsh environments** where round jackets provide better protection

Round vs. Flat: The Technical Difference

The key difference lies in the **conductor geometry** and **jacket construction**:

PROUNTA Cat6 Round UTP Patch Cable Specifications

Related Products

Cat6 UTP RJ45 Connector (Scattered Plug)

Standard Cat6 unshielded modular plug for bulk cable assembly. 3-prong gold-plated contacts, 100% virgin PC housing.

Cat6 Flat Ethernet Patch Cable

Flat Cat6 patch cable for clean cable management. Compare with round cable for your specific application needs.

Cat6 Shielded RJ45 Connector (Large Wire Hole)

Shielded version for industrial environments. 1.2mm wire hole for thick Cat6 conductors.

All RJ45 Modular Plugs

Browse our complete range of RJ45 connectors for all your networking needs.

Get a Quote for Cat6 Round UTP Patch Cable

[100% Fluke DSX Tested](#) [RoHS/REACH/CE Certified](#) [OEM/ODM Available](#) [Fast Delivery \(3-7 Days\)](#) [Request a Quote](#) [WhatsApp Now](#)

PROUNTA - Dongguan Prounta Electronics Co., Ltd.

Factory-direct manufacturer of RJ45 connectors, patch cables, and networking solutions.
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Technical specifications

Specification	Published value
Category	Cat6
Bandwidth	250 MHz
Conductor Material	100% Copper (Solid)
Conductor Gauge	23 AWG
Shielding	UTP (Unshielded)
Connector Type	8P8C RJ45 Modular Plug
Contact Layout	Staggered with Load Bar
Contact Material	Phosphor Bronze
Plating	50 microinches Gold
Housing Material	Transparent polycarbonate (PC)
Flame Rating	UL94V-2
Jacket Material	PVC (Standard) / LSZH (Optional)
Jacket Color	Black, White, Blue, Gray, Red, Yellow, Green (Custom available)
Standard Lengths	0.5m, 1m, 1.5m, 2m, 3m, 5m, 10m (Custom lengths available)
Performance	Gigabit Ethernet (1000BASE-T) Full Support, 10GBASE-T Short-Run Compatible
Contact Resistance	< 20 mΩ
Insertion Force	8-20 N
Extraction Force	25-80 N
Mating Cycles	> 750
Operating Temperature	-20°C to +60°C
Certifications	RoHS, REACH, CE, UL
Packaging	100 pcs/bag, 1000 pcs/carton (Custom packaging available)
Lead Time	3-7 days for stock lengths, 15-20 days for custom
MOQ	1000 pcs (Negotiable for first order)