



Cat6a 10G Shielded RJ45 Keystone Inline Coupler, Silver/Black

Connects Two Network Patch Cables, STP, Two RJ45 Ports, 8P8C Female to 8P8C Female, Gold-plated Contacts

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Shielded Cat6a RJ45 Keystone Inline Coupler, Silver/Black, for a Reliable Ethernet Extension

This Cat6a RJ45 Keystone Inline Coupler from Intellinet Network Solutions is a simple and effective solution for extending Ethernet connections without compromising performance. Designed with two RJ45 ports in an 8P8C female-to-female configuration, it allows you to seamlessly connect two network patch cables and create a stable, continuous link. Whether for home networks, office setups, or professional installations, this coupler ensures a clean and dependable extension.

High-Speed 10G Performance for Modern Networks

Built to meet Cat6a standards, this inline coupler supports data transmission up to 10 Gigabit Ethernet and frequencies of up to 500 MHz. In accordance with ISO/IEC 11801 and IEC 60603-7, it delivers consistent performance for 10G applications. The straight-through pin assignment ensures full compatibility with both T568A and T568B wiring schemes, making it a versatile choice for a wide range of network environments.

Shielded Design for Improved Signal Protection

The integrated stainless steel shielding helps protect network signals against electromagnetic interference (EMI) and external noise sources. This makes the coupler especially suitable for shielded cabling environments and demanding installations with increased electrical interference. Combined with gold-plated contacts, the shielded design supports stable data transmission and reliable PoE connectivity for professional network applications.

Optimized for Reliable Connectivity

Engineered for demanding applications, the coupler is fully compatible with Power over Ethernet standards up to IEEE 802.3bt. This makes it ideal for extending connections to devices such as IP cameras, wireless access points, and other PoE-powered equipment. Gold-plated contacts enhance conductivity while preventing corrosion, ensuring long-term signal integrity and stable power delivery.

Flexible Integration with Keystone Form Factor

Thanks to its standardized keystone design, the coupler can be easily snapped into wall plates, patch panels, or surface boxes. This allows for clean, secure installations and seamless integration into existing structured cabling systems. At the same time, its plug-and-play functionality eliminates the need for re-termination, offering maximum flexibility for upgrades, retrofits, or temporary setups.

Durable Construction for Everyday Use

The coupler features a flame-retardant housing rated UL 94 V-0, providing enhanced safety and durability in professional environments. Designed for use with unshielded twisted pair (UTP) Cat6a cables, it is also backward compatible with Cat6 and Cat5e installations. With a wide operating temperature range from -20 to 60°C (-4 to 140°F), it performs reliably across various indoor conditions, making it a dependable component for long-term network use.

Features:

- Easily connects two RJ45 Ethernet patch cables for a reliable network extension
- STP 360° shielded Cat6a inline coupler supporting 10G and 500 MHz in accordance with ISO/IEC 11801 and IEC 60603-7

For more information on Intellinet products, consult your local dealer or visit www.intellinet-network.com.

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- Gold-plated contacts for improved conductivity and corrosion-free connections
- Supports PoE standards IEEE802.3af, IEEE802.3at, and IEEE802.3bt
- Standard 8P8C design with straight-through pin assignment, compatible with T568A/B wiring
- For use with shielded twisted pair (STP) Cat6a cable, fully backward compatible with previous cable categories like Cat6 and Cat5e
- Keystone form factor for easy snap-in installation into wall plates and patch panels
- Flame-retardant housing rated UL 94 V-0
- Suitable for wide operating temperatures of -20 to 60°C (-4 to 140°F)
- Fully NDAA-compliant
- Lifetime warranty

Specifications:

Standards and Certifications

- UL
- CE
- UKCA
- RoHS
- REACH
- ISO/IEC 11801
- IEC 60603-7
- Cat5 (ANSI/TIA/EIA-568-D)
- Cat5e (TIA/EIA-568-D)
- Cat6 (ANSI/TIA-568-D)
- Cat6a (ANSI/TIA-568-D)

General

- Supports transfer speeds up to 10 Gbps
- Max. operating frequency: 500 MHz
- Supports all PoE standards up to IEEE802.3bt / PoE++ / 4PPoE / Ultra PoE
- Mating cycles: ≥ 750
- Insertion force: 30N max.
- Retention strength: 50N min.

Material

- Contacts: phosphor bronze; thickness: 0.35 mm
- Plating on contact surface: 3 micro-inch gold
- Base plating: 30 micro-inch nickel
- Contact carrier: PBT
- Shielding: stainless steel
- Flammability:
 - Internal Housing: ABS, tested and rated in accordance with UL 94 V-0
 - PCB: tested and rated in accordance with FR-4

Electrical

- Insulation resistance: 1,000 MOhm min. at 500V DC
- Dielectric withstanding voltage: 1,500 V DC/1,000 V AC
- Contact resistance: 30 MOhm max.
- Voltage rating: 125.0 V AC RMS
- Current rating: 1.5 A

Physical

- Dimensions (L x W x H): 31.2 x 16.7 x 19.51 mm (1.23 x 0.66 x 0.77 in.)
- Net weight: 14 g (0.49 oz.)
- Gross weight: 16 g (0.56 oz.)

Environmental

- Operating temperature: -20 to 60°C (-4 to 140°F)
- Storage temperature: -20 to 60°C (-4 to 140°F)
- Operating humidity (non-condensing): <80% RH

Package Contents

- Cat6a RJ45 Keystone Inline Coupler, STP

