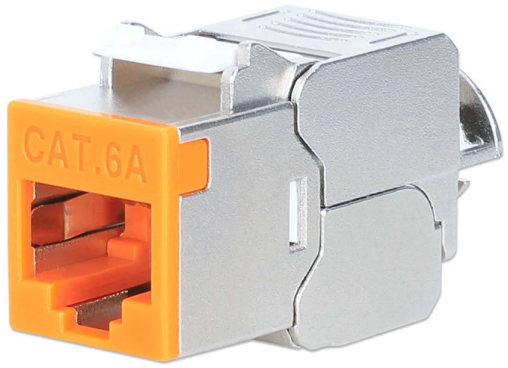
Cat6A RJ45 Shielded Toolless Keystone Jack

Toolless Termination | Shielded 360° Metal Housing | Cat6A 500 MHz | Snap-In Keystone



1. GENERAL DESCRIPTION

Cat6A shielded toolless keystone jack is an RJ45 (8P8C) female jack for terminating shielded Category 6A cable in the field without a punch-down tool. The conductors are laid into a colour-coded cap, which is then closed to seat and cut the wires and clamp the cable and its screen in one action. The die-cast metal housing bonds to the cable screen and to the panel, keeping the shield continuous for 10GBASE-T and EMI-sensitive installations, while the snap-in keystone body fits standard keystone openings in patch panels, faceplates and surface boxes.

2. KEY FEATURES

- Toolless termination: close the cap by hand or with pliers — no 110 punch-down tool required
- Cat6A performance up to 500 MHz — supports 10GBASE-T over 100 m channels and PoE / PoE++
- Shielded 360° die-cast metal housing (nickel-plated zinc alloy) with cable-screen contact and panel contact
- Colour-coded T568A / T568B wiring guide on the cap for fast, accurate termination
- Integrated cable clamp / tie for strain relief; suitable for solid conductors [22–26 AWG]
- Gold-plated phosphor bronze contacts; snap-in keystone body with [colour options]

3. APPLICATIONS

- Termination of shielded Cat6A (F/FTP, S/FTP) horizontal cable at patch panels and wall outlets
- Faceplates, surface mount boxes, desk and floor outlets, and furniture-mounted outlets
- Data centres, EMI-prone industrial plants, hospitals and broadcast rooms

4. APPLICABLE STANDARDS

- ANSI/TIA-568.2-D — Category 6A connecting hardware
- ISO/IEC 11801 — Class EA generic cabling
- IEC 60603-7-51 — 8-position shielded connector, Category 6A (RJ45)
- UL 94 V-0 — Flammability of plastic parts; RoHS [Compliant — Directive 2011/65/EU]

5. CONSTRUCTION & MATERIALS

Type	RJ45 (8P8C) female shielded keystone jack, toolless termination
Shield	Die-cast nickel-plated zinc alloy housing with cable-screen and panel contacts
Housing / Cap	Polycarbonate / PA insert and cap, UL 94 V-0
Contacts	Phosphor bronze, gold-plated — [50 µin / 1.27 µm]
Termination	Toolless cap with insulation-displacement contacts, colour-coded T568A / T568B

Compatible Cable	Shielded Cat6A (F/FTP, S/FTP), solid, [22–26 AWG], jacket OD [6.5–9.0 mm]
Mounting	Snap-in keystone, fits [14.5 × 19.5 mm] openings
Colour	[Black / Grey / White / Blue]

6. ELECTRICAL CHARACTERISTICS

Contact Resistance	[≤ 20 mΩ]
Shield Contact Resistance	[≤ 50 mΩ]
Insulation Resistance	[≥ 500 MΩ]
Dielectric Withstand (1 min)	[1000 V AC]
Current Rating per Contact	[1.5 A]
Max. Operating Voltage	[72 V]

7. TRANSMISSION PERFORMANCE

Frequency (MHz)	Insertion Loss — max (dB)	NEXT — min (dB)
100	0.2	54.0
250	0.32	46.0
500	0.45	40.0

8. WIRING (PIN ASSIGNMENT)

Pin	T568B Colour	T568A Colour
1	White / Orange	White / Green
2	Orange	Green
3	White / Green	White / Orange
4	Blue	Blue
5	White / Blue	White / Blue
6	Green	Orange
7	White / Brown	White / Brown
8	Brown	Brown

9. TERMINATION GUIDELINES

- Strip the outer jacket, fold back the braid / foil, and keep the pair screens intact up to the point of untwist (max. 13 mm / 0.5 in untwisted).
- Lay each conductor in the cap slot matching the T568A or T568B colour code, with the cable screen in contact with the shield clamp.
- Close the cap by hand or with pliers until it clicks; this seats the wires, trims the excess and clamps the cable.
- Snap the jack into the keystone opening of a metal (grounded) patch panel or wall plate, and test the link to Category 6A.