1-Port Cat6 RJ45 Surface Mount Box

Easy Installation | Durable UL 94 V-0 Housing | Cat6 UTP (250 MHz) | Wall or Desk Mount



1. GENERAL DESCRIPTION

1-port Cat6 RJ45 surface mount box is a ready-to-use outlet with a Category 6 UTP keystone jack pre-installed in a low-profile surface mount housing. It provides a neat network outlet where a flush wall box cannot be used, such as on finished walls, partitions, trunking, desks and cabinets. The jack has colour-coded 110-type IDC terminals for fast, reliable termination, and the snap-on cover and multiple cable entry points let installers bring in cable from the back, top, bottom or sides. The impact-resistant, flame-retardant housing gives a clean, durable finish and supports Gigabit Ethernet and PoE.

2. KEY FEATURES

- Pre-installed Category 6 RJ45 jack (250 MHz) — no jack to buy separately, ready to terminate
- Colour-coded T568A / T568B 110-type IDC terminals for fast, accurate termination
- Multiple cable entry points (back, top, bottom and sides) with knock-out or open slots
- Low-profile design with snap-on cover for a quick, tool-light installation
- Mounts with screws, or with [double-sided adhesive tape] on smooth clean surfaces
- Durable ABS housing, UL 94 V-0 flame rated, with a smooth long-lasting finish
- Supports 10/100/1000BASE-T and PoE / PoE+ (IEEE 802.3af / at)
- Label window above the port for clear identification, and an internal cable bend-radius guide

3. APPLICATIONS

- Ethernet network outlets on finished walls, partitions and trunking
- Work-area outlets in homes, offices, shops, classrooms and hotels
- Desks, cabinets, retrofit installations and temporary outlets
- Voice, IP cameras, access points and PoE devices

4. APPLICABLE STANDARDS

- UL 94 V-0 — Flammability of plastic housing material
- ANSI/TIA-568.2-D — Category 6 connecting hardware
- ISO/IEC 11801 — Class E generic cabling
- IEC 60603-7-4 — 8-position modular connector, Category 6 (RJ45)
- FCC 47 CFR Part 68 — Modular jack requirements
- RoHS — [Compliant — Directive 2011/65/EU]

5. CONSTRUCTION & MATERIALS

Housing	Impact-resistant ABS plastic, UL 94 V-0 — base and snap-on cover
Jack	1 × RJ45 (8P8C) Category 6 UTP, unshielded, pre-installed
Jack Housing	Flame-retardant polycarbonate, UL 94 V-0
Contacts	Phosphor bronze, gold-plated — [50 µin / 1.27 µm]
Rear Termination	110-type IDC punch-down, colour-coded T568A / T568B
Wire Range	22–26 AWG solid copper
Cable Entry	Back, top, bottom and sides — [___ mm] entry slots
Labelling	Label window with clear cover above the port
Fixings	2 × mounting screws and wall anchors, plus [adhesive tape]
Colour	[White / Ivory / Black]

6. ELECTRICAL CHARACTERISTICS

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

8. TRANSMISSION PERFORMANCE

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

9. INSTALLATION & HANDLING GUIDELINES

- Choose a clean, flat, dry surface; for adhesive mounting, degrease the area and press firmly for 30 seconds.
- Open the cover, remove the knock-out for the chosen cable entry, and route the cable into the box.
- Punch down the cable on the pre-installed Cat6 jack with a 110 tool following the colour code (T568A / T568B), and untwist pairs by no more than 13 mm (0.5 in).
- Leave a small service loop inside the box, respecting the cable's minimum bending radius, then fit the cover.
- Label the port and test the link after installation.