

# Product Specifications

## Category 6 EC-Series Unscreened Keystone Jacks

### KEY FEATURES

- Exceeds TIA-568-C.2 component performance specifications
- Supports TIA-568-C.2 category 6 100 meter channel performance
- Improved conductor retention with 90° 110 termination
- Eco-friendly bulk packaging with a resealable bag
- Slim profile for the highest density applications
- Easy-to-read T568A/B wiring scheme color-coded label
- Compatible with Signamax screened snap-in patch panels and work area faceplates
- Circuit identification icons and dust covers included in kit



The Signamax Category 6 EC-Series Unscreened Keystone Jacks have been designed to meet the need for today's high-bandwidth applications. The 90° termination position eases tension from the connection at the jack and allows an installer to direct the cable straight back from the panel or faceplate and provides enhanced plug-to-jack connection integrity.

The contact design protects against damage caused by insertion of 4 or 6 position plugs and is rated for a minimum of 750 plug insertions. Special design features allow these jacks to be terminated with a standard 110 single-position tool or with the Signamax four-pair tool providing for the highest level of system reliability.

### ORDERING INFORMATION

PART NO.	DESCRIPTION
KJ458EC25-C6	Category 6 EC-Series Keystone Jack, T568A/B Wiring, Light Ivory, 25-Pack

For other colors add the following to P/N: -WH -YE -OR -RD -BU -GN -BK

### SPECIFICATIONS

#### TRANSMISSION PERFORMANCE

ANSI/TIA-568-C.2: meets or exceeds category 6 (1–250 MHz) component specifications

#### TRANSMISSION MEDIA

Unscreened twisted pair (U/UTP)

#### JACK TYPE

8p8c (8-position, 8-contact) "RJ45" style

#### WIRING SCHEME

ANSI/TIA-568-C.2: T568A & T568B

ISO/IEC 11801 2nd Ed.: 8-position pin/pair assignment (1-2/3-6/4-5/7-8)

#### WIRE GAUGE

22 to 24 AWG (0.644 to 0.511 mm)

#### ELECTRICAL

**Insulation Resistance:** Min 500 MOhm @ 100 Vdc

**Dielectric Withstanding Voltage:**

1,000 Vdc/ac peak contact-to-contact @ 60 Hz for 1 min

**Spring Wire Contact Resistance:** Max 20 mOhm

**IDC Contact Resistance:** Max 2.5 mOhm

#### CONSTRUCTION

**Housing:** High impact thermoplastic, UL94V-0 fire retardant

**Jack Spring Wire:** Phosphor bronze alloy plated with 50 µin of gold over 70 to 100 µin of nickel

**IDC:** 110 type, phosphor bronze alloy with 100 µin 100% tin alloy

#### MECHANICAL

**Total Contact Force:** Min 800 g for 8 wire leads

**Retention:** 50 N (11 lbf) for 60 ± 5 s

**Mating Cycle Life:** Min 750 cycles

#### FOOTPRINT

Standard keystone footprint

#### MOUNTING DIMENSIONS:

1.29" D x 0.67" W x 0.76" H (32.7 mm x 16.9 mm x 19.3 mm)

#### ENVIRONMENTAL CONDITIONS

**Operating Temperature:** 14 °F to 140 °F (-10 °C to 60 °C)

**Storage Temperature:** -40 °F to 158 °F (-40 °C to 70 °C)

**Operating RH:** 93% Max (non-condensing)

#### COMPLIANCE

ANSI/TIA-568-C.2, IEC 60603-7, FCC Part 68 Subpart F, UL 94V-0

#### APPLICATIONS

X.21, V.11, S0, ISDN, CSMA/CD 10BASE-T, 100BASE-TX, 100BASE-T4, 100BASE-T2, 1000BASE-T, 10GBASE-T (up to 25 m (82 ft)), TR 4/16/100, 100BASE-VG, ATM LAN 25/51/155, TP-PMD

#### WARRANTY

5 - Year Limited Component