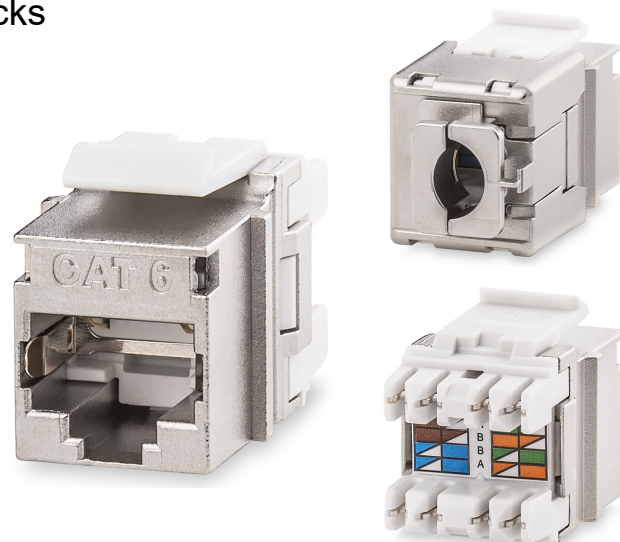


# Product Specifications

## Category 6 MT-Series Screened Keystone Jacks

### KEY FEATURES

- Exceeds TIA-568-C.2 component performance specifications
- Supports TIA-568-C.2 category 6 100 meter 4-connector channel performance
- Overall solid-metal shielding design for 360° screen coverage
- Improved wire retention and ease of termination with rear 110 type contacts
- 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 Screened MT-Series Keystone Jacks have been designed to meet the need for today's high-bandwidth applications. These connectors are slim in profile for the highest density applications and guarantee 100 meter four-connector channel performance in environments with elevated EMI levels.

Special design features allow these jacks to be terminated with a standard 110 single-position tool or with the Signamax four-pair tool. The contact design provides enhanced plug-to-jack connection integrity allowing for easy connection to the telecommunication bonding and grounding systems.

### ORDERING INFORMATION

PART NO.	DESCRIPTION
KJS458MT-C6C	Category 6 Screened MT-Series Keystone Jack, T568A/B Wiring

Standard circuit identification icons/dust covers are Light Ivory. Additional color options sold separately.

### SPECIFICATIONS

#### TRANSMISSION PERFORMANCE

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

#### TRANSMISSION MEDIA

Unscreened twisted pair (U/UTP) or screened (U/STP, F/UTP, F/STP, S/UTP, S/STP, SF/UTP, SF/STP) twisted pair

#### Cable Diameter:

Min: 0.20" (5 mm)  
 Max: 0.35" (9 mm)

#### JACK TYPE

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

#### WIRING SCHEME (See Figure 1)

ANSI/TIA-568-C.2: T568A & T568B  
 ISO/IEC 11801 2<sup>nd</sup> 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 V<sub>dc</sub>

#### Dielectric Withstanding Voltage:

1,000 V<sub>dca</sub> peak contact-to-contact @ 60 Hz for 1 min  
 1,500 V<sub>dca</sub> peak contact-to-panel @ 60 Hz for 1 min

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

**IDC Contact Resistance:** Max 2.5 mOhm

**Current Rating:** See Figure 2

#### FOOTPRINT

Standard keystone footprint

#### CONSTRUCTION

**Housing:** Zinc-alloy

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

**IDC:** 110 type, phosphor bronze alloy with 100 µm 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

#### MOUNTING DIMENSIONS:

1.67" D x 0.58" W x 1.02" H (42.4 mm x 14.6 mm x 25.8 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, TR 4/16/100, 100BASE-VG, ATM LAN 25/51/155, TP-PMD

#### WARRANTY

5 - Year Limited Component

Figure 1: Wiring Schemes

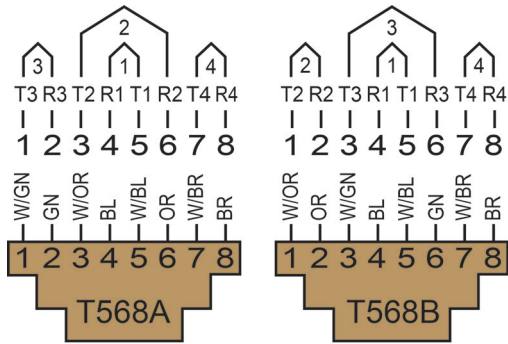


Figure 2: Current Rating

