

Product Specifications

Category 5e MT-Series Screened Angled Patch Panels



KEY FEATURES

- Exceeds ANSI/TIA-568-C.2 component performance specifications
- Supports TIA-568-C.2 category 5e 100 meter channel performance
- Overall solid-metal shielding design for 360° screen coverage
- Improved wire retention and ease of termination with rear 110 type contacts
- Slim profile for the highest density applications
- Angled design eliminates the need for cable management panels saving space
- Cold-rolled steel construction for maximum strength and durability
- Easy-to-read T568A/B wiring scheme color-coded label

The Signamax Category 5e MT-Series Screened Angled Patch Panels are designed to offer a complete panel and jack option. The MT-series includes the option of a 24, 48, or 72 port panel, and black snap-in keystone jacks. This space saving angled design allows easy termination and flexibility for future adds, moves or changes, giving installers the perfect cost effective solution for Category 5e applications.

The keystone jacks' solid-metal shielding eliminates EMI, and in lieu of fixed termination, a standard single-position 110 termination tool or a specialized Signamax multi-pair tool can be used. For easy circuit identification, each port designation features a labeling area with a reference number. The keystone jacks are rated for a minimum of 750 plug insertions providing for the highest level of system reliability.

ORDERING INFORMATION

PART NO.	DESCRIPTION
24458SA-C5E	24-Port Category 5e MT-Series Screened Angled Patch Panel 1.75" H
48458SA-C5E	48-Port Category 5e MT-Series Screened Angled Patch Panel, 3.50" H
72458SA-C5E	72-Port Category 5e MT-Series Screened Angled Patch Panel, 3.50" H

Panels are supplied as a kit, which includes the panel, black MT-Series screened jacks per port count, and cable ties.

For panels with other keystone jack color options contact Customer Service.

SPECIFICATIONS

TRANSMISSION PERFORMANCE

ANSI/TIA-568-C.2: exceeds category 5e (1-100 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" type

WIRING SCHEME (See Figure 1)

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 (0.64 to 0.51 mm)

CONSTRUCTION

Panel:

Front: Steel with corrosive resistant black finish
Rear: Steel

Jack:

Housing: High-impact thermoplastic, UL94V-0 fire-retardant
Contacts: Phosphor bronze alloy plated with min 50 µin of gold over 70 µin to 100 µin of nickel plating
IDC: 110 type, phosphor bronze alloy with 100-µin 100% tin alloy

MECHANICAL

Total Contact Force: Min 800 g for 8 wire leads with FCC compliant 8p8c plug
Retention: 50 N (11 lbf) for 60 ± 5 s
Mating Cycle Life: Min 750 cycles with FCC compliant 8p8c plug

ELECTRICAL

Insulation Resistance: Min 500 MOhm @ 100 V_{dc}

Dielectric Withstanding Voltage:

1,000 V_{dclac} peak contact-to-contact @ 60 Hz for 1 min
1,500 V_{dclac} 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

MOUNTING DIMENSIONS:

Panel: 19-in rack mountable

Depth: 4.0" (102 mm)

Height:

24458SA-C5e: 1 RMU (1.75" (44.45 mm))
48458SA-C5e: 2 RMU (3.50" (88.90 mm))
72458SA-C5e: 2 RMU (3.50" (88.90 mm))

Jack: 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, IEEE 802.3 ab, FCC Part 68 Subpart F, UL 94V-0, UL 1863, IEC 60603-7

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

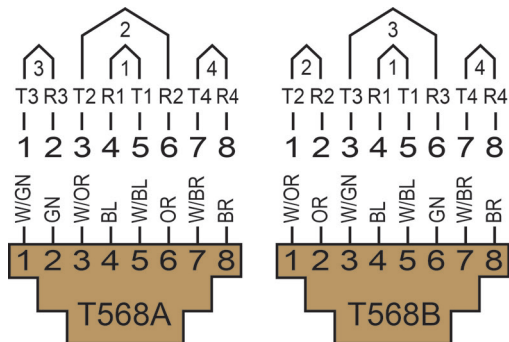


Figure 2: Current Rating

