

Product Specifications

Category 6 MT-Series Screened Patch Panels



KEY FEATURES

- Exceeds ANSI/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
- Removable rear cable management bar
- Improved wire retention and ease of termination with rear 110 type contacts
- Slim profile for the highest density applications
- Cold-rolled steel construction for maximum strength and durability
- Easy-to-read T568A/B wiring scheme color-coded label

The Signamax Category 6 MT-Series Screened 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, black snap-in keystone jacks, and a cable management bar. This unique design allows easy termination and greater flexibility for future adds, moves or changes, giving installers the perfect cost effective solution for Category 6 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
24458S-C6C	24-Port Category 6 MT-Series Screened Patch Panel 1.75" H
48458S-C6C	48-Port Category 6 MT-Series Screened Patch Panel, 3.50" H
72458S-C6C	72-Port Category 6 MT-Series Screened Patch Panel, 3.50" H

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

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

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" 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

Cable management bar: Steel with nickel plating

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:

Management Bar Installed: 6.0" (153 mm)
Management Bar Uninstalled: 1.5" (38 mm)

Height:

24458S-C6C: 1 RMU (1.75" (44.45 mm))
48458S-C6C: 2 RMU (3.50" (88.90 mm))
72458S-C6C: 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

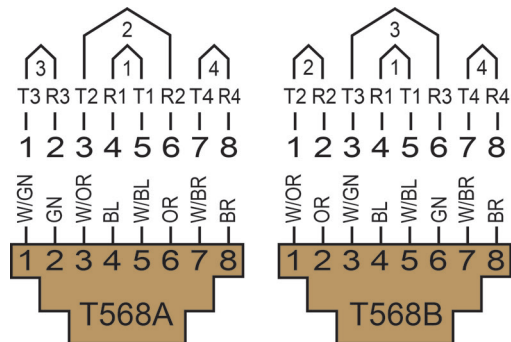
APPLICATIONS

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



Detailed Back View

Cable management bar snaps into the back of the panel.



Grounding lug for attaching 6 AWG (4.5 mm) ground conductor.

Figure 2: Current Rating

