SIGNAMAX
Connectivity Solutions

Product Specifications

Category 6A MT-Series Unscreened Patch Panels

KEY FEATURES

- Exceeds ANSI/TIA-568-C.2 component performance specifications
- Meets IEEE 802.3an 10 Gigabit Ethernet transmission requirements
- Eliminates alien crosstalk with solid-metal cable-retention cap on connector modules
- 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 6A MT-Series Unscreened 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 6A applications.

The patch panels rolled-edge steel construction eliminates panel flex, and in leu 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
24458-C6A	24-Port Category 6A MT-Series Patch Panel 1.75” H
48458-C6A	48-Port Category 6A MT-Series Patch Panel, 3.50” H
72458-C6A	72-Port Category 6A MT-Series Patch Panel, 3.50” H

Panels are supplied as a kit, which includes the panel, black MT-Series unscreened jacks per port count, a cable management bar per RMU, and cable ties.
For panels with other keystone jack color options contact Customer Service.

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SPECIFICATIONS

TRANSMISSION PERFORMANCE
ANSI/TIA-568-C.2: exceeds category 6A (1-500 MHz) component specifications

TRANSMISSION MEDIA
Unscreened twisted pair (U/UTP)

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)

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
Current Rating: See Figure 2

CONSTRUCTION
Panel:
Front: Steel with corrosive resistant black finish
Rear: Steel
Cable management bar: Thermoplastic with steel brackets
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

MOUNTING DIMENSIONS:
Panel: 19-in rack mountable
Depth:
Management Bar Installed: 6.0” (153 mm)
Management Bar Uninstalled: 1.5” (38 mm)
Height:
24458-C6A: 1 RMU (1.75” (44.45 mm))
48458-C6A: 2 RMU (3.50” (88.90 mm))
72458-C6A: 2 RMU (3.50” (88.90 mm))
Jack: 1.21” D x 0.67” W x 0.76” H (30.8 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, 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

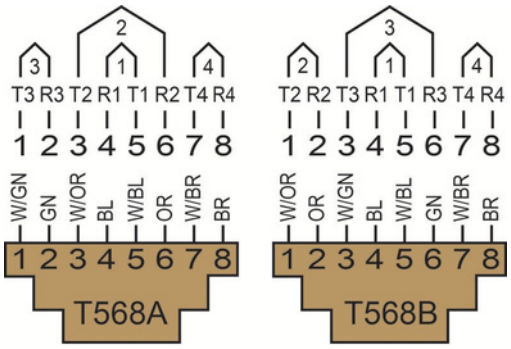
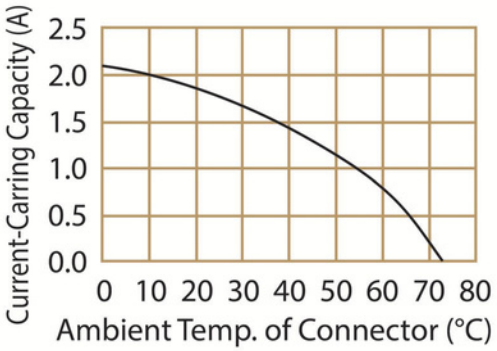


Figure 2: Current Rating



Detailed Back View