

Specifications

Category 6 MD-Series Unscreened Patch Panels



KEY FEATURES

- Exceeds ANSI/TIA-568-C.2 component performance specifications
- Supports TIA-568-C.2 Category 6 100 meter channel performance
- Built-in PCB-based jack modules ensure Category 6 parameters
- · Easy-to-read T568A/B wiring scheme color-coded label
- Port designation features along each port for quick identification
- · Integrated for optional snap-in cable management bar
- Cold-rolled steel construction for maximum strength and durability

The Signamax Category 6 MD-Series Unscreened Patch Panels were designed to feature a fully enclosed, modular design, which provides flexibility and protection of printed circuitry during termination. The sixfold 110-type connector blocks significantly improve connector-to-connector interference isolation and electrical transition between socket contacts and IDC's. For easy circuit identification, each port designation features a labeling area and a reference number.

The MD-series panels are available in 12, 24, or 48 port versions featuring a rolled-edge steel construction eliminating panel flex during fixed termination. The contact design provides enhanced plug-to-jack connection integrity and protects against damage caused by insertion of 4 or 6 position plugs. Termination can be done using a standard single-position 110 termination tool, and the ports are all rated for a minimum of 750 plug insertions providing for the highest level of system reliability.

ORDERING INFORMATION

PART NO.	DESCRIPTION
12458MD-C6C	12-Port Category 6 MD-Series Patch Panel, 1.75" H
24458MD-C6C	24-Port Category 6 MD-Series Patch Panel, 1.75" H
48458MD-C6C	48-Port Category 6 MD-Series Patch Panel, 3.50" H

Optional cable management bar 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)

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 V_{do}

Dielectric Withstanding Voltage:

1,000 V_{dolac} 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: Steel with corrosive resistant black finish

Connector:

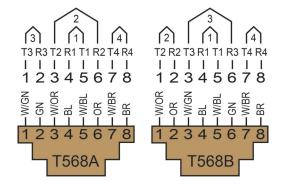
Housing: High-impact thermoplastic, UL94V-0 fire-retardant

Spring Wire: Phosphor bronze alloy plated with min 50 μ in of gold over 70 μ in

to 100 µin of nickel plating

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

Figure 1: Wiring Schemes



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:

12458-C6C: 1 RMU (1.75" (44.45 mm)) 24458-C6C: 1 RMU (1.75" (44.45 mm)) 48458-C6C: 2 RMU (3.50" (88.90 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 2: Current Rating

