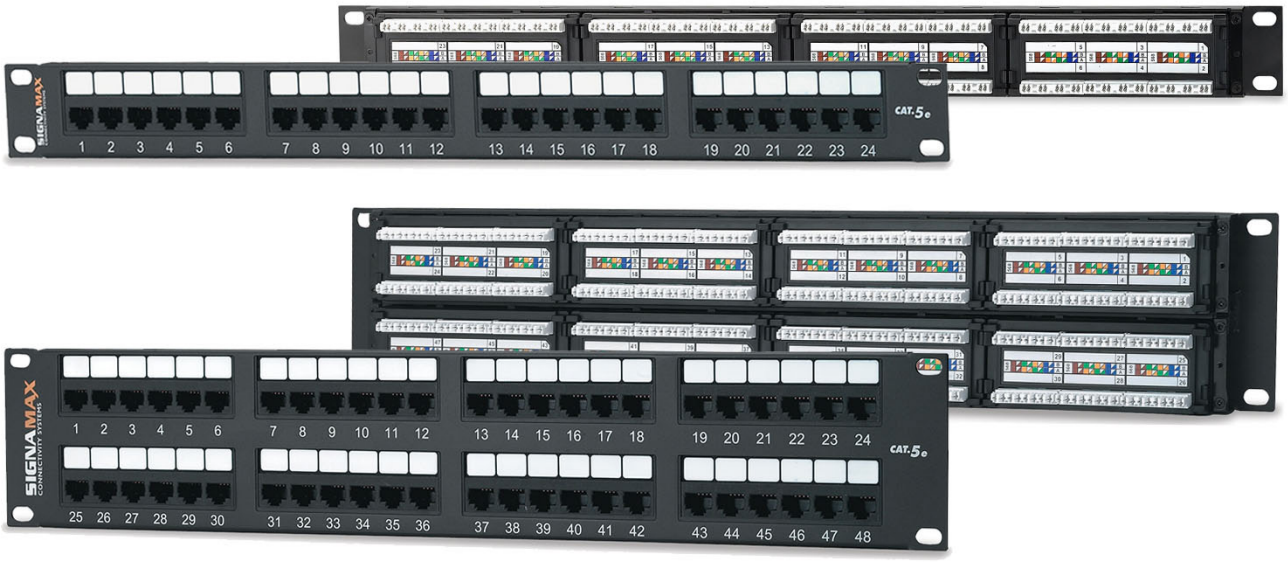
SIGNAMAX
Connectivity Solutions

Product Specifications

Category 5e MD-Series Unscreened Patch Panels



KEY FEATURES

- Exceeds ANSI/TIA-568-C.2 component performance specifications
- Supports TIA-568-C.2 Category 5e 100 meter channel performance
- Built-in PCB-based jack modules ensure Category 5e 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 5e 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-C5E	12-Port Category 5e MD-Series Patch Panel, 1.75" H
24458MD-C5E	24-Port Category 5e MD-Series Patch Panel, 1.75" H
48458MD-C5E	48-Port Category 5e MD-Series Patch Panel, 3.50" H

Optional cable management bar sold separately.

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SPECIFICATIONS

TRANSMISSION PERFORMANCE
ANSI/TIA-568-C.2: exceeds category 5e (1-100 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_{dc}
Dielectric Withstanding Voltage:
1,000 $V_{dc/ac}$ 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: Steel with corrosive resistant black finish
Connector:
Housing: High-impact thermoplastic, UL94V-0 fire-retardant
Spring Wire: 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:
12458-C5E: 1 RMU (1.75” (44.45 mm))
24458-C5E: 1 RMU (1.75” (44.45 mm))
48458-C5E: 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 1: Wiring Schemes

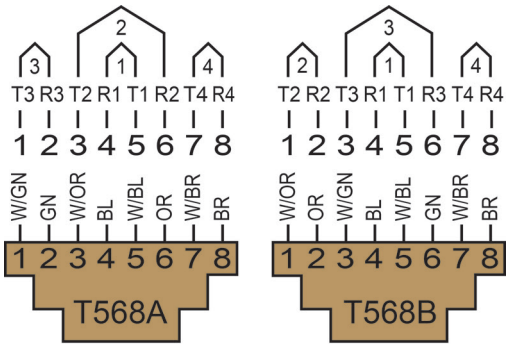
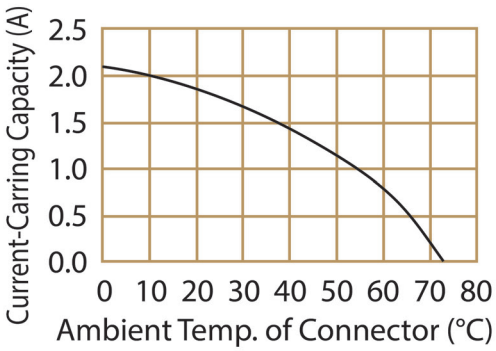


Figure 2: Current Rating



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