

Product Specifications

Category 6 Unscreened Jack Patch Panels



KEY FEATURES

- Exceeds ANSI/TIA-568-C.2 component performance specifications
- Supports TIA-568-C.2 category 6 100 meter channel performance
- Front access to the modular sockets & 110 connectors
- Accessible from any direction for distribution cables
- Integrated for optional 89D-type mounting brackets
- Easy-to-read T568A/B wiring scheme color-coded label
- Compatible with standard one-position & four-position 110-type tools

The Signamax Category 6 Unscreened Jack Patch Panels were designed to feature a removable front cover for easy access to the front-facing RJ-45 and 110 connectors. This front cover offers protection and access from any direction for the distribution cables via the knock-outs along the sides.

There are several options in this series. An option with standoff legs for routing cables behind the panel and another for DIN-Rail mounting. All options are available in 6 or 12 port versions featuring a fully enclosed PCB design providing flexibility and protection for the printed circuitry during termination. The unique socket contact design allows enhanced plug-to-jack connection integrity for the highest level of system reliability.

ORDERING INFORMATION

PART NO.	DESCRIPTION
6458JPL-C6C	6-Port Category 6 Jack Patch Panel, Flush Mount
6458JPL-C6C-L	6-Port Category 6 Jack Patch Panel, Stand-off Legs
6458JPL-C6C-DR	6-Port Category 6 Jack Patch Panel, DIN-Rail Mount
12458JPL-C6C	12-Port Category 6 Jack Patch Panel, Flush Mount
12458JPL-C6C-L	12-Port Category 6 Jack Patch Panel, Stand-off Legs
12458JPL-C6C-DR	12-Port Category 6 Jack Patch Panel, DIN-Rail Mount

Optional 89D-type mounting bracket sold separately.

SPECIFICATIONS

TRANSMISSION PERFORMANCE

ANSI/TIA/EIA-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_{dc}

Dielectric Withstanding Voltage:

1,000 V_{dclac} 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

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

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

Retention: 50 N (11 lbf) for 60 ± 5 s

Mating Cycle Life: Min 750 cycles with FCC compliant 8p8c plug

MOUNTING DIMENSIONS:

Depth:

Without Legs: 1.5" (38 mm)

With Legs: 2.8" (70 mm)

With DIN-Rail: 1.8" (46 mm)

Width:

6458JPL-C6C: 7.0" (177 mm)

6458JPL-C6C-L: 2.66" (210 mm)

6458JPL-C6C-DR: 7.0" (177 mm)

12458JPL-C6C: 10.5" (266 mm)

12458JPL-C6C-L: 11.8" (300 mm)

12458JPL-C6C-DR: 7.0" (177 mm)

Height: 2.7" (67 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, FCC Part 68 Subpart F, UL 94V-0, IEC 60603-7, RoHS

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

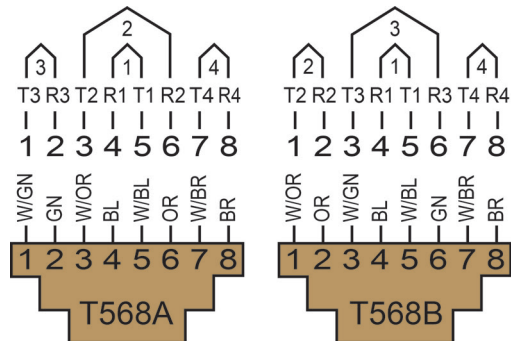
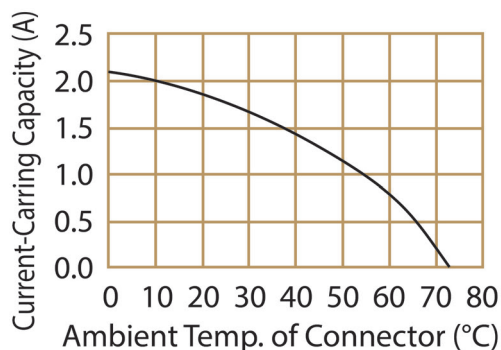
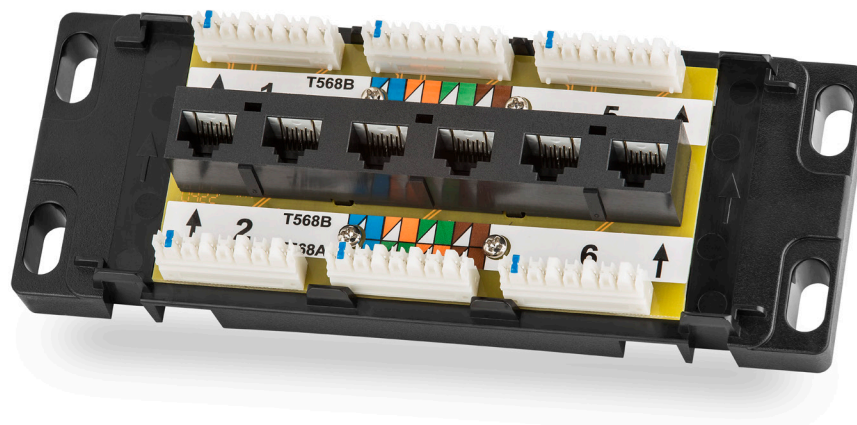


Figure 2: Current Rating



Inside View



KEEPING YOUR WORLD CONNECTED