

## Category 6 High-Density Feed-Thru Patch Panels

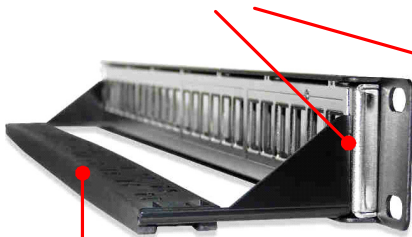
When connecting equipment in a telecommunications room, it is often necessary to cross connect using patch cables, in order to interface to the distribution cabling system. Signamax Category 6 High-Density Feed-Thru Patch Panels provide 24 and 48 modular coupling ports, while maintaining category 6 channel performance. These panels are available in a high-density version for use where rack space is at a premium. Panels are designed to accommodate both unscreened and screened inline couplers, which makes it a universal solution. Panels feature front labeling areas and come with a rear cable management bar that mounts easily to the back of the panel. Feed-thru couplers meet channel level requirements as defined in TIA/EIA-568-C.2 and provide a sound platform for supporting today's network technologies including Gigabit Ethernet.



### KEY FEATURES

- 24- and 48-port sizes
- Accommodates both unscreened and screened twisted-pair keystone inline couplers
- Couplers feature straight-thru wiring scheme compatible with T568A, T568B cabling and any other wiring schemes up to 8 conductors
- Coupler contact design provides enhanced plug to jack connection integrity and protects against damage caused by insertion of 4- or 6-position plugs
- Maximum strength and durability construction
- Snap-in rear cable management bar
- Couplers are rated for at least 750 plug insertions providing for the highest level of system reliability
- Applications – cross-connections, horizontal consolidation points, horizontal connection points in building automation cabling, etc.

Rear cable management bar mounts easily (snaps in) to the back of the panel



Rear cable management bar comes with the panel for improved cable routing and strain relief

Panel is designed to accommodate both unscreened and screened twisted-pair jacks as well as a variety of multimedia jacks



Grounding lug is located on rear of panel for attaching 6 AWG (4.5 mm) ground conductor to ground and optional can be installed to connect panels together

### ORDERING INFORMATION

#### Category 6 High Density Feed-Thru Patch Panels

Part Number	Description
24458FTHD-C6	24-Port Category 6 High-Density Feed-thru Patch Panel, 1.75" (1 RMS) High
48458FTHD-C6	48-Port Category 6 High-Density Feed-Thru Patch Panel, 3.0" (2 RMS) High
24458SFTHD-C6	24-Port Screened Category 6 High-Density Feed-thru Patch Panel, 1.75" (1 RMS) High
48458SFTHD-C6	48-Port Screened Category 6 High-Density Feed-Thru Patch Panel, 3.0" (2 RMS) High

24-port panels come with 1 rear cable management bar. 48-port panels come with 2 rear cable management bars.

SPECIALTIES

## Category 6 High-Density Feed-Thru Patch Panels

### SPECIFICATIONS

• **TRANSMISSION PERFORMANCE**

ANSI/TIA/EIA-568-C.2: category 6 (1–250 MHz) channel specifications

• **TRANSMISSION MEDIA**

24458FTHD-C6, 48458FTHD-C6: unscreened twisted pair (U/UTP)

24458SFTHD-C6, 48458SFTHD-C6: unscreened or screened twisted pair (U/STP, F/UTP, F/STP, S/UTP, S/STP, SF/UTP, SF/STP)

• **JACK TYPE**

8p8c (8-position, 8-contact) "RJ45" type

• **WIRING SCHEME**

Straight-thru – compatible with any wiring scheme up to 8 conductors

• **CONSTRUCTION**

Panel: steel/nickel-plated steel

Cable management bar: unscreened: steel/plastic

screened: nickel-plated steel

Coupler housing: unscreened: high impact thermoplastic, ABS UL94V-0 fire retardant

screened: screening case: copper C2680, 0.25-mm (0.0098-in), 100-µin nickel-plated  
contact holder: high impact thermoplastic, PBT UL94V-0 fire retardant

Jack contacts: phosphor bronze 5100W temper wire, min 50 µin of gold plating over 100-µin nickel plating

• **ELECTRICAL**

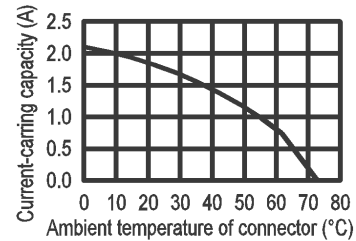
Insulation resistance: min 500 MOhm @ 100 V<sub>dc</sub>

Dielectric withstanding voltage: 1,000 V<sub>dc/ac</sub> peak contact to contact @ 60 Hz for 1 min

Spring wire contact resistance: max 20 mOhm

DC contact resistance: max 0.1 Ohm

Current rating: see figure



• **MECHANICAL**

Insertion life: min 750 mating cycles with FCC compliant 8p8c plug

Contact force: min 100 g each contact with FCC compliant 8p8c plug

Plug retention force: min 50 N (11 lbf) for 60±5 s

• **FOOTPRINT**

Standard keystone footprint

• **MOUNTING DIMENSIONS**

Panel – 19-in rack mountable:

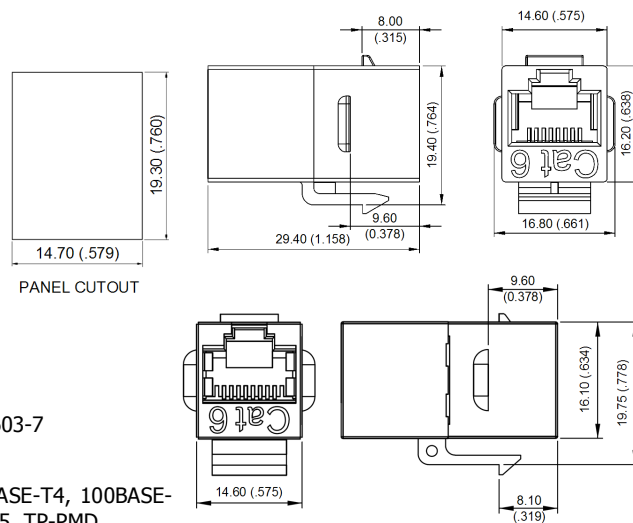
24458: H 1.75 in (1 RMU)

48458: H 3.0 in (2 RMU)

Inline couplers:

W 14.6 mm H 16.2 mm D 29.4 mm

W 0.58 in H 0.64 in D 1.16 in



• **ENVIRONMENTAL CONDITIONS**

Storage temperature: -40 °C – +68 °C (-40 °F – 154 °F)

Operating temperature: -10 °C – +60 °C (-14 °F – 140 °F)

Humidity: 10 %–90 % RH

• **COMPLIANCE**

ANSI/TIA/EIA-568-C.2, FCC Part 68 Subpart F, UL 1863, IEC 60603-7

• **APPLICATIONS**

X.21, V.11, S0, ISDN, CSMA/CD 10BASE-T, 100BASE-TX, 100BASE-T4, 100BASE-T2, 1000BASE-T, TR 4/16/100, 100BASE-VG, ATM LAN 25/51/155, TP-PMD

• **WARRANTY**

5-year limited component warranty

### RELATED PRODUCTS

Product/Product Group	Spec Sheet #
Category 6 Unscreened Patch Cords _____	N/A
Category 6 Screened Patch Cords _____	N/A

SPECIFICATIONS