

Category 5e Angled SL Series Patch Panels



Description

TE Connectivity's Category 5e Angled SL Series patch panels exceed ANSI/TIA 568-C.2 and ISO/IEC 11801 requirements for Category 5e/Class D component performance. The TE Category 5e System complies with all of the performance requirements for current and proposed applications such as Gigabit Ethernet (1000BASE-TX), 10 and 100BASE-TX, token ring, 155 Mbps ATM, 100 Mbps TP-PMD, ISDN, analog and digital video and analog and digital voice (VoIP).

TE'S Category 5e Angled SL Series patch panels are available in 24-Port and 48-Port versions. Universal wiring labels permit field installation to either T568A or T568B, wiring while simplifying ordering and inventory. The "6-pack" modules include 8.5 x 11 card stock label sheet for labeling and accept color-coded icons (purchased separately). Each "6-pack" module accepts six individual Category 5e Jacks, enabling individual replacement of each port if necessary. This design allows for even and repeatable performance testing for each port. TE's Angled SL Series patch panels allow the elimination of horizontal cable management for higher rack densities and ease of cable dress. Each patch panel ships unloaded, allowing installers to make use of TE's SL Series Termination Tool (P/N: 1725150-1) for even greater performance, standardization, and repeatability. The SL Series Tool lacing fixture contains an integrated cutting blade used during termination to eliminate the need to manually trim conductors and to allow all four pairs of a four pair cable to be terminated at one time.

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SPECIFICATION (TEXT IN BRACKETS [] REQUIRES A CHOICE)

Category 5e patch panels shall be angled, [1U, 24-Port or 2U, 48-Port], wired to [T568A or T568B], and shall accept RJ-45, 8-Position modular plugs. Patch panels shall be configured as 6-port modules with individually replaceable jacks. The front of each module shall be capable of accepting standard labeling. Each port shall be capable of accepting an optional icon to indicate its function. Patch panels shall terminate the building cabling on 110-style insulation displacement connectors. [Patch panels shall be supplied unloaded with jacks bagged separately, for termination using TE's SL Series Termination Tool (p/n: 1725150-1).] The installed system shall comply with the Category 5e performance characteristics listed in the following table:

TYPICAL WORST-CASE PERFORMANCE CHARACTERISTICS (exceed ANSI/TIA 568-C.2 Category 5e requirements)

| Frequency, MHz | Insertion Loss dB | | Return Loss dB | | NEXT dB | | FEXT dB | |
|-------------------|----------------------|------|-------------------|------|------------|------|------------|------|
| | Standard | Max. | Standard | Min. | Standard | Min. | Standard | Min. |
| 1 | 0.1 | 0.01 | 30.0 | 58.3 | 65.0 | 87.3 | 65.0 | 86.6 |
| 4 | 0.1 | 0.02 | 30.0 | 48.8 | 65.0 | 76.6 | 63.1 | 76.1 |
| 8 | 0.1 | 0.03 | 30.0 | 43.7 | 64.9 | 70.7 | 57.0 | 70.5 |
| 10 | 0.1 | 0.02 | 30.0 | 42.2 | 63.0 | 69.1 | 55.1 | 68.9 |
| 16 | 0.2 | 0.10 | 30.0 | 38.5 | 58.9 | 64.8 | 51.0 | 65.3 |
| 20 | 0.2 | 0.08 | 30.0 | 36.7 | 57.0 | 63.0 | 49.1 | 63.5 |
| 25 | 0.2 | 0.06 | 30.0 | 35.0 | 55.0 | 61.1 | 47.1 | 61.7 |
| 31.25 | 0.2 | 0.04 | 30.0 | 33.1 | 53.1 | 58.9 | 45.2 | 60.0 |
| 62.5 | 0.3 | 0.06 | 24.1 | 27.5 | 47.1 | 52.6 | 39.2 | 54.7 |
| 100 | 0.4 | 0.08 | 20.0 | 24.0 | 43.0 | 47.6 | 35.1 | 51.0 |
| 155 | - | 0.20 | - | 20.2 | - | 40.2 | - | 41.3 |
| 200 | - | 0.30 | - | 18.0 | - | 37.4 | - | 39.1 |
| 250 | - | 0.40 | - | 16.0 | - | 35.0 | - | 37.1 |
| 300 | - | 0.30 | - | 14.5 | - | 33.5 | - | 35.6 |
| 350 | - | 0.30 | - | 13.1 | - | 32.5 | - | 34.2 |

Patch panels shall be TE part number [1499602-2 or 1499603-2] or an approved equivalent.

PART NUMBERS

| Description | | Height | Part Numbers |
|--|---------|------------|--------------|
| Category 5e SL Series Patch Panel, Angled (Jacks bagged separately) | 24-Port | 1U (1.75") | 1499602-2 |
| | 48-Port | 2U (3.50") | 1499603-2 |

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Technical Details

MATERIALS

| | |
|---|--|
| Connector Housing Interface (6-Pack Module) | Polyester molding compound, black jack housing |
| Panel | Steel, black powder coat |
| Modular Jacks | For modular jack materials, see cut sheet for 1375191-X |
| Screws | 12-24 x 0.5in [12.7mm], trilobular screws with captive star-washer 10-32 x 0.5in [12.7mm], trilobular screws with captive star-washer |

PACKAGING

| | | |
|---------|----|--|
| 24-Port | 1 | panel per box |
| | 4 | 10-32, black, trilobular screws per box |
| | 4 | 12-24, black, trilobular screws per box |
| | 4 | releasable nylon cable ties per box |
| | 1 | sheet of white, laser printable, card stock labels per box (12mm labels) |
| | 1 | sheet of clear label covers |
| | 24 | SL Series Category 5e modular jacks |
| 48-Port | 1 | panel per box |
| | 4 | 10-32, black screws per box |
| | 4 | 12-24, black screws per box |
| | 8 | releasable nylon cable ties per box |
| | 1 | sheet of white, laser printable, card stock labels per box |
| | 1 | sheet of clear label covers |
| | 48 | SL Series Category 5e modular jacks |

DURABILITY

For durability as well as other characteristics of modular jacks, see cut sheet for P/N - 1375191

UL Listed File Number - E81956



QUALIFICATION TEST

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DATA SHEET

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