

# Category 6 Angled SL Series Patch Panels



## Description

TE Connectivity's Category 6 Angled SL Series patch panels exceed ANSI/TIA 568-C.2 and ISO/IEC 11801 requirements for Category 6/Class E component performance. The TE Category 6 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 6 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 6 Jacks (shipped with, but bagged separately from, each patch panel), 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 the TE's SL Series Termination Tool (P/N: 1725150-1) for even greater performance, standardization, and repeatability. The SL Series tool lacing fixture contains integrated cutting blades 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 6 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 6 performance characteristics listed in the following table:

## WORST-CASE PERFORMANCE CHARACTERISTICS (exceed ANSI/TIA 568-C.2 Category 6 requirements)

Frequency, MHz	Insertion Loss dB		Return Loss dB		NEXT dB		FEXT dB	
	Category 6 Standard	Max.	Category 6 Standard	Min.	Category 6 Standard	Min.	Category 6 Standard	Min.
1	0.10	0.02	30	52.4	75.0	84.0	75.0	83.7
4	0.10	0.02	30	53.7	75.0	80.3	71.1	74.8
8	0.10	0.02	30	55.3	75.0	77.4	65.0	69.4
10	0.10	0.03	30	56.1	74.0	76.4	63.1	67.5
16	0.10	0.03	30	57.6	69.9	72.0	59.0	62.9
20	0.10	0.04	30	59.3	68.0	71.9	57.1	61.7
25	0.10	0.04	30	59.4	66.0	69.1	55.1	59.8
31.25	0.11	0.05	30	56.8	64.1	67.7	53.2	58.2
62.5	0.16	0.06	28	42.3	58.1	61.5	47.2	52.6
100	0.20	0.06	24	33.2	54.0	57.7	43.1	48.7
200	0.28	0.06	18	21.2	48.0	52.5	37.1	42.2
250	0.32	0.10	16	17.4	46.0	47.9	35.1	40.1

Patch panels shall be TE part number [1499600-X or 1499601-X] or an approved equivalent.

## PART NUMBERS

Description		Height	Part Numbers
SL Series Category 6 Angled Patch Panel	24-Port	1U (1.75")	1499600-2
	48-Port	2U (3.50")	1499601-2

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### Technical Details

#### MATERIALS

Connector Housing Interface (6-Pack Module)	Polyester molding compound, black
Panel	Steel, black powder coat
Modular Jacks	For modular jack materials, see cut sheet for 1375055
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 screws per box
	4	12-24, black 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 6 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 6 modular jacks

#### DURABILITY

For durability as well as other characteristics of modular jacks, see cut sheet for P/N - 1375055

UL Listed

File Number - E81956



## DATA SHEET

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