Category 5e Standard SL Series Patch Panels

Description

TE Connectivity's Category 5e Standard 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 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 SL Series patch panels are available in 12-, 24-, 48- and 96-Port, versions. Universal wiring labels permit field installation to either T568A or T568B wiring, while simplifying ordering and inventorying. The "6-pack" modules accept 9mm and 12mm labels (included) as well as color-coded icons. Each “6-pack” module comes unloaded with six individual Category 5e Jacks (shipped bagged), enabling each port to be individually replaced if necessary. This design allows for even and repeatable performance testing for each port by enabling installers to make use of TE's SL Series Termination Tool (P/N: 1725150-1) for even greater performance standardization and repeatability.

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SPECIFICATION (TEXT IN BRACKETS [ ] REQUIRES A CHOICE)

Category 5e patch panels shall be [10", 1RU 24 port, 2RU 48 port or 4RU 96 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 9mm to 12mm labels. Each port shall be capable of accepting an 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)

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 UL Listed under file number E81956.
Patch panels shall be TE part number [1479153-2, 1479154-2, 1479155-2 or 1479156-2].

PART NUMBERS

Description		Height	Width	Part Numbers
Category 5e Standard SL Series Patch Panels	12-Port	10.00"	2.3°	1479153-2
	24-Port	1RU	19.0°	1479154-2
	48-Port	2RU	19.0°	1479155-2
	96-Port	4RU	19.0°	1478156-2

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Technical Details

MATERIALS

Connector Housing Interface (6-Pack Module)	Polyester molding compound, black jack housing
Panel	24 and 48 port - Steel, black powder coat 12 and 96 port - Aluminum, black powder coat
Modular Jacks	For modular jack materials, see cut sheet for 1375191-X
Screws	12-24 x 0.5in [12.7mm], black 10-32 x 0.5in [12.7mm], carbon steel, cross recessed

DURABILITY

Modular Jack	750 mating cycles
110 Blocks	200 termination cycles

QUALIFICATION TEST

Document Number	501-528-2

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