

Category 6 STP Patch Panels



Description

A patch panel is an array of jacks, typically rack mounted, that houses cable connections. One normally shorter patch cable will be plugged into the front side, while the back will hold the connection of a much longer and more permanent cable. The assembly of hardware is arranged so that a number of circuits, usually of the same or similar type, appear on jacks for monitoring, interconnecting, and testing circuits in a convenient, flexible manner.

Patch panels offer the convenience of allowing technicians to quickly change the path of select signals, without the expense of dedicated switching equipment. This was first used by early telephone companies, where there are switch boards (a massive array of patch panels) in a large roomful of telephone operators running it was ubiquitous. This shielded type patch panels use robust complete metal shielded connector.

Applications

- Ethernet 10 Base T
- Gigabit Ethernet 1000 Base T
- ATM
- CDDI
- ISDN
- Fast Ethernet 100 Base TX
- 10 Gigabit 10GBASE T
- 4/16 MB Token Ring
- TP PMD
- ADSL

Benefits and Features

- ✓ This rack mount type unshielded keystone patch panel comes with a design which has redefined engineering elegance.
- ✓ It is a three piece structure that includes Robots slim designed front panel cable management brackets and cable manager rigid plastic bar.
- ✓ The cable management plate comes with pre-fitted B-Clip
- ✓ Perforated cable tie holes that helps in routing cables and provides a perfect strain relief.
- ✓ The front plate has icon holders which help identify the media used such as computer, telephone, etc.
- ✓ The high performance, high density keystone connectors meet and exceed EIA/TIA 568 B.2-1 Cat 6 specifications.
- ✓ Keystone Jacks snap fit on the metal case and can be easily removed whenever required.
- ✓ Complete metal shielded connectors provide immunity against EMI/EMC

Physical and Mechanical Properties

Dimensions	442.66mm x 89.0mm (19"-2RU)
Material	Steel 1.6mm thick powder coated
Number of Ports	24P
Contact Wiring:	Phosphor bronze 50μ" gold over 100μ" nickel plating
Housing:	High impact flame retardant plastic, UL9V-0 rated.
IDC:	Accept 23-26 AWG solid wire.
Jack mating life:	750 cycle.
Jack contact force:	100 grams minimum.
Jack pull force:	20 lbs (89)N.
Retention force:	13 kgs minimum.
Current Rating:	1.5 Amps.
Contact Resistance:	20 m Ω maximum.
DC Resistance:	0.1 MΩ maximum.
Insulation Resistance:	500M Ω minimum
Data Transmission Rates:	upto 10 Gbps.

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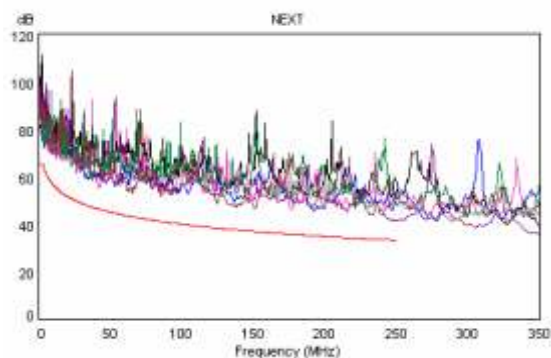
Performance Characteristics TIA/EIA-568-B2-1

FREQUENCY (MHz)	INSERTION LOSS (Attenuation) dB/100m		NEXT (db)		PSNEXT (db)		ELFEXT (db)		PSELFEXT (db)		RETURN LOSS (db)	
	Standard	Digi-Link	Standard	Digi-Link	Standard	Digi-Link	Standard	Digi-Link	Standard	Digi-Link	Standard	Digi-Link
0.72	1.8	1.1	76.0	83.3	74.0	80.2	70.0	87.2	67.0	77.2		28.2
1.00	2.0	1.6	74.3	79.2	72.3	76.7	67.8	82.3	64.8	75.7	19.0	24.7
4.00	3.8	3.2	65.3	72.9	63.3	69.1	55.8	70.2	52.8	63.6	19.0	29.7
8.00	5.3	4.9	60.8	71.1	58.8	65.2	49.7	64.9	46.7	58.7	19.0	27.0
10.00	6.0	5.5	59.3	70.8	57.3	63.6	47.8	64.5	44.8	57.9	19.0	28.1
16.00	7.6	7.1	56.2	71.3	54.2	63.8	43.7	60.1	40.7	55.7	18.0	31.6
20.00	8.5	7.9	54.8	68.4	52.8	60.7	41.8	59.1	38.8	52.5	17.5	28.9
25.00	9.5	8.8	53.3	64.4	51.3	56.0	39.8	57.4	36.8	49.4	17.0	27.9
31.25	10.7	9.2	51.9	60.7	49.9	54.3	37.9	57.3	34.9	47.5	16.5	30.9
62.50	15.4	13.0	47.4	56.0	45.4	48.3	31.9	46.0	28.9	39.4	14.0	20.5
100.00	19.8	16.2	44.3	52.2	42.3	45.3	27.8	44.8	24.8	36.5	12.0	18.2
200.00	29.0	23.6	39.8	46.1	37.8	39.9	21.8	36.4	18.8	28.8	9.0	16.0
250.00	32.9	26.6	38.3	45.2	36.3	38.0	19.8	36.7	16.8	29.7	8.0	16.4
300.00	**	32.0	**	43.3	**	37.5	**	37.4	**	29.4	**	15.2
350.00	**	38.2	**	41.7	**	35.9	**	33.7	**	26.6	**	13.1

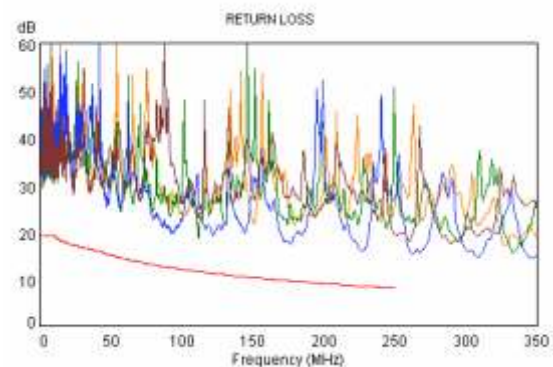
** Extrapolated Values

Propagation Delay	2.5 nS max @ 1-100 MHz
Propagation Delay Skew	1.25 nS max @ 1-100 MHz
Current rating	1.5 A max.
Contact resistance	20 mΩ (max) per contact
Input/Output resistance	200 mΩ (max)
Input/Output resistance Unbalance	50 mΩ (max)
Voltage rating	72 Vdc max.
Dielectric strength	1000 V rms for 1 minute
Insulation Resistance	500 mΩ (min) @ 500 Vdc
DC Resistance	0.1 Ω (max) @ 20°C
LCL	66-20·Log(f) dB min @ 1-100 MHz
Transfer Impedance	N/A

Typical NEXT Loss



Typical Return Loss



Ordering Information

Part Code	Description	No of Ports	Size	Wiring
DC6PP24SKY2U	Patch Panel Cat 6 STP keystone type- Loaded	24	2U	EIA/TIA 568 A/B