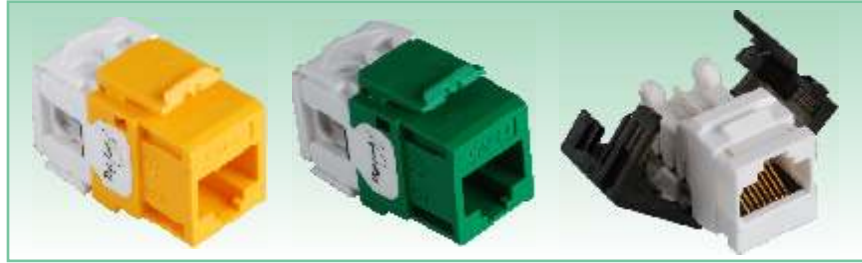


## Category 6+ Unshielded RJ-45 Keystone Jacks



RFT\*

### Description

Digi-Link P500 unshielded copper RJ-45 keystone jack series includes high performance Category 6 snap-in 8-position/8-contact (8P8C) jacks conforming to IEC 60603-7-2 (unshielded 100 MHz connectors). Digi-Link P500 jacks are designed for fast and easy snap-in and out of wall plates and patch panels. All Digi-Link P500 jacks are designed in a 180 form and are available with back interconnection of 110 IDC blocks or special LSA-Plus/110 IDC combination blocks in T568A, T568B. They incorporate Retention Force Technology (RFT) to ensure positive contact

All jacks fully conform to ANSI/TIA/EIA-568-B.2-1 Category 6, CENELEC EN 50173 and ISO/IEC-11801 (2nd Edition) CLASS E requirements. Digi-Link P350 unshielded copper RJ-45 keystone jack ensure long lasting high-performance and full support of all present and emerging applications, including 1000BASE-T (Gigabit-Ethernet).

### Applications

Digi-Link P500 unshielded copper RJ-45 keystone jack are used in wall plates, patch panels and they fully support all presently available LAN applications, including the following protocols:

- 1000BASE-T Gigabit Ethernet
- TP-PMD
- 100BASE-T2
- 100BASE-TX
- ATM 52
- 10BASE-T Ethernet
- Broadband and Baseband Video
- 1BASE-5 Starlan
- ITU V.21 and X.11
- ATM 155
- 100BASE-T Fast Ethernet
- 100BASE-T4
- Token Ring 100 Mbps
- ATM 25
- Token Ring 4 Mbps and 16 Mbps
- ISDN Basic and Primary Access
- ISALAN

### Qualifications and Approvals

Digi-Link P500 unshielded copper RJ-45 keystone jack are supported by the Lifetime Warranty Digi-Link P500 unshielded copper RJ-45 keystone jack comply to IEC 60603-7-2 and to the following standards:

#### Transmission:

- ANSI/TIA/EIA-568-B.2-1
- ISO/IEC-11801
- ETL verified

#### Safety:

- UL94 V-0 rated plastic materials
- RoHS compliance

### Benefits and Features

- ✓ Exceptional material properties and design - providing a unique Lifetime Warranty.
- ✓ Jacks with 180° form design - providing easier access, better and faster wire connection.
- ✓ Exceeding Category 6 performance - providing full support to Gigabit Ethernet, Extra polates till 500 MHz.
- ✓ Robust and installer-friendly design - providing reduced installation and operating costs.
- ✓ Compatible with 22-26 AWG solid or stranded conductors - providing support to a wider range of cabling types.
- ✓ Available in T568A, T568B or Universal pin/pair assignment - providing a wider product range.
- ✓ Performance extrapolated till 500MHz

### Physical and Mechanical Properties

Housing Material	High impact, Flame-retardant plastic compound, UL 94 V-0.
Jack Contacts Material	Phosphor bronze 50µ" gold over 100µ" nickel plating
Environmental conditions	-40°C to +60°C at 0-90% RH (Non condensing)
Packaging	50 or 100 Units per box.
Plug Retention Force	14 Kgf (140N) min.
Plug to jack contact force	100 gr min. (using Digi-Link approved plug).
Storage Temperature	-20°C to +80°C
Plug insertion durability	750 mating cycles
Conductor compatibility range	22 to 26 AWG, solid or stranded
Standard Color	White, Other colors available upon request.

\* Register Trademark of Leviton USA.

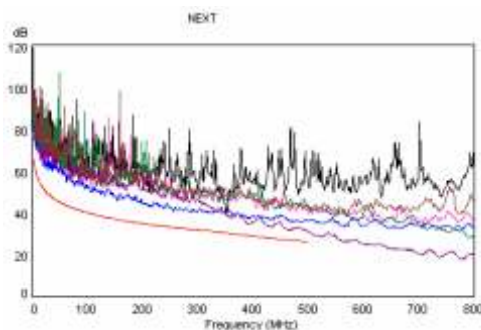
## Category 6+ Unshielded RJ-45 Keystone Jacks

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	1.2	76.0	79.2	74.0	67.0	73.2	78.2	70.0	77.6		25.4
1.00	2.0	1.3	74.3	78.1	72.3	64.8	71.3	77.7	67.8	74.6	19.8	28.2
4.00	3.8	2.8	65.3	71.1	63.3	52.8	62.4	69.3	55.8	64.8	21.6	29.3
8.00	5.3	4.0	60.8	64.0	58.8	46.7	55.3	63.5	49.7	57.8	22.5	29.8
10.00	6.0	4.5	59.3	59.6	57.3	44.8	54.9	59.9	47.8	58.2	22.8	30.4
16.00	7.6	5.8	56.2	61.4	54.2	40.7	50.4	61.2	43.7	52.3	23.4	32.8
20.00	8.5	6.5	54.8	58.4	52.8	38.8	48.9	58.0	41.8	51.0	23.7	34.5
25.00	9.5	7.4	53.3	55.6	51.3	36.8	45.8	54.3	39.8	52.0	24.0	34.8
31.25	10.7	8.2	51.9	52.9	49.9	34.9	42.8	51.2	37.9	51.9	23.0	28.2
62.50	15.4	11.9	47.4	47.6	45.4	28.9	33.3	46.7	31.9	37.9	20.0	25.7
100.00	19.8	15.2	44.3	45.2	42.3	24.8	33.2	42.5	27.8	41.7	18.0	21.8
200.00	29.0	22.1	39.8	40.6	37.8	18.8	23.3	39.0	21.8	26.2	15.0	16.7
250.00	32.8	32.7	38.3	38.5	36.3	16.8	26.3	37.9	19.8	23.9	14.0	15.4
300.00	**	32.0	**	37.4	**	15.3	**	38.0	**	22.5	**	13.2
350.00	**	39.6	**	36.8	**	13.9	**	37.9	**	21.9	**	10.9
400.00	**	32.0	**	37.4	**	15.3	**	38.0	**	22.5	**	13.2
450.00	**	39.6	**	36.8	**	13.9	**	37.9	**	21.9	**	10.9
500.00	**	39.6	**	36.8	**	13.9	**	37.9	**	21.9	**	10.9

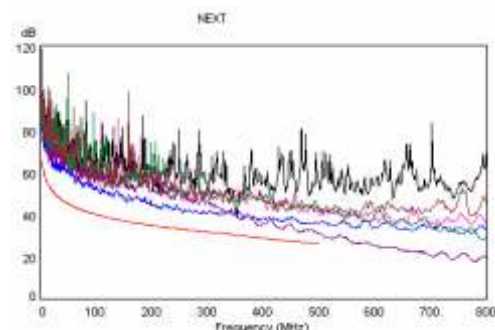
\*\* Extrapolated Values

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
TCL	28-20·Log(f/100) dB min @ 1-100 MHz
Transfer Impedance	N/A

Typical NEXT Loss



Typical Return Loss



### Ordering Information

P/N	Description	Termination Blocks	Punch-Down Tool	T568
DCAKYSTU-WT	Jack Cat6+ Keystone UTP - White	110 IDC	110	B
DCAKYSTU-BL	Jack Cat6+ Keystone UTP - Blue	110 IDC	110	B
DCAKYSTU-GN	Jack Cat6+ Keystone UTP - Green	110 IDC	110	B
DCAKYSTU-YL	Jack Cat6+ Keystone UTP - Yellow	110 IDC	110	B
DCAKYSTU-RD	Jack Cat6+ Keystone UTP - Red	110 IDC	110	B
DCAKYSTU-BK	Jack Cat6+ Keystone UTP - Black	110 IDC	110	B