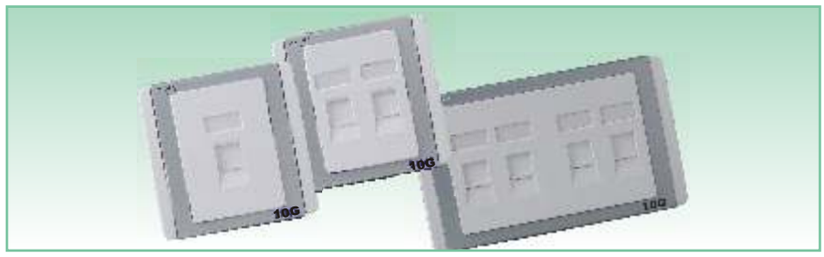
Category 6A (10G) UTP Information Outlets



Description

Digi-Link P800 10G Information Outlets meets superior channel performance and offers unparalleled signal integrity and minimizes noise disturbances by incorporating new design and features. The 10G keystone connector resists Alien Crosstalk (major concern of 10G technology) between neighboring installations and ensues smooth and uninterrupted flow of data to the workstation. By design, our 10G information outlets feature standard compatibility and color-coded wiring labels including applicable T568A/T568B wiring patterns for dual flexibility and fast, accurate termination. The product has been tried and tested for > 750 terminations. Our 10G information outlets are fully compliant with published TIA/EIA 568B standards and meet or exceed industry standards. All jacks are very high performing and they fully conform to ANSI/TIA/EIA-568-B.2-1 Category 6, CENELEC EN 50173 and ISO/IEC-11801 (2nd Edition) CLASS F requirements. These information outlets ensure long lasting high-performance and full support of all present and emerging applications, including 1000BASE-T (Gigabit-Ethernet).Proper use of Digi-Link Information outlets, along with all Diglink cabling components provide high-quality cabling systems which are supported by the Lifetime Warranty.

Applications

Digi-Link P800 Information Outlet series ifully 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 P800 Information Outlet series are supported by Lifetime Warranty Digi-Link P800 Information Outlet series comply to IEC 60603 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 complaince

Benefits and Features

- Exceptional material properties and design - providing a unique Lifetime Warranty.
- Modular design - providing easier access, better and faster wire connection.
- Screws covers - Hides the screws & gives rich looks.
- Re-engineered keystone jack to resists alien cross talk for high speed performance.
- Detailed installation manual in English - providing clear and comprehensive instructions.
- 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.
- Unique Quality Assurance - providing lowest rejection rate available.

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	25 units per box (one set per poly bag)
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.

Category 6A (10G) UTP Information Outlets

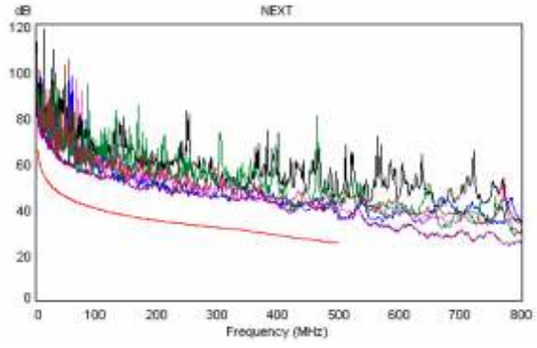
Performance Characteristics TIA/EIA-568-B2-10

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
1.00	2.1	1.9	74.3	90.5	72.3	88.6	67.8	82.6	64.8	80.8	19.1	31.5
4.00	3.8	3.1	65.3	85.9	63.3	82.8	55.8	70.0	52.8	68.8	21.0	36.4
8.00	5.3	4.3	60.8	72.0	58.8	71.6	49.7	64.2	46.7	63.2	21.0	33.1
10.00	5.3	4.8	59.3	75.9	57.3	72.7	47.8	62.8	44.8	61.9	21.0	32.7
16.00	5.9	6.1	56.2	71.5	54.2	69.8	43.7	58.7	40.7	58.1	20.0	34.3
20.00	7.5	6.8	54.8	70.9	52.8	67.9	41.8	57.7	38.8	56.5	19.5	33.4
25.00	8.4	7.6	53.3	63.1	51.3	61.7	39.8	56.7	36.8	55.1	19.0	31.6
31.25	9.4	8.6	51.9	68.1	49.9	64.7	37.9	51.7	34.9	50.1	18.5	32.5
62.50	10.5	12.4	47.4	65.8	45.4	62.0	31.9	44.6	28.9	43.9	16.0	28.2
100.00	15.0	15.9	44.3	56.7	42.3	53.5	27.8	41.4	24.8	39.7	14.0	24.9
200.00	19.1	23.0	39.8	49.2	37.8	47.2	21.8	31.8	18.8	30.7	11.0	20.2
250.00	27.6	26.0	38.3	45.4	36.3	41.9	19.9	31.7	16.9	30.3	10.0	18.1
300.00	31.1	28.9	37.2	41.5	35.2	40.3	18.3	29.4	15.3	27.8	8.4	17.0
400.00	34.3	33.9	35.3	34.5	33.3	33.6	15.8	29.7	12.9	26.5	6.0	14.6
500.00	40.1	38.4	33.8	29.1	31.8	27.7	13.9	26.3	11.0	24.5	6.0	12.9
600.00	**	40.2	**	32.6	**	31.8	**	40.5	**	23.3	**	15.0
700.00	**	43.4	**	31.4	**	30.6	**	28.4	**	27.1	**	14.9
800.00	**	47.0	**	29.9	**	28.2	**	21.0	**	23.4	**	13.7

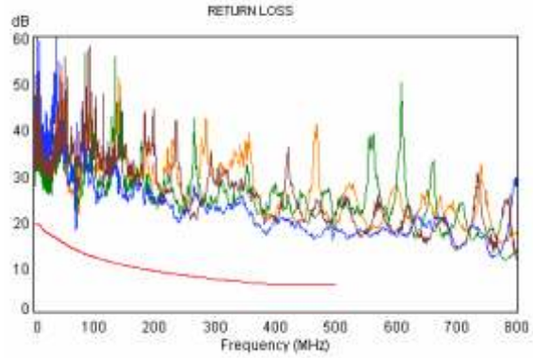
** Extrapolated Values

Characteristic Impedance	100±6 Ω @ 1-600 MHz
DC Resistance	72 Ω/km max.
Resistance unbalance	2% max.
Capacitance	45 pF/m nom. @ 1 KHz
Cap. Unbalance (wire to ground)	1500 pF/km max. @ 1 KHz.
Voltage rating	72 Vdc max.
Dielectric strength	1500 V/1 minute min rms
Velocity of Propagation (NVP)	67-69%
Insulation Resistance	500 mΩ km min. @ 500 Vdc
Coupling attenuation	40 dB min @ 30-100 MHz 40-20Log(f/100) @100-600 MHz
Transfer Impedance	N/A

Typical NEXT Loss



Typical Return Loss



Ordering Information

P/N	Description	Ports	Dimensions mm	
			L	W
DCTIOSMUXXXXX	Single- Informationn Outlet - 10G	1	86	86
DCTIODMUXXXXX	Dual - Single informationn outlet - 10G	2	86	86
DCTIOQMUXXXXX	Quad- Informationn Outlet - 10G	4	147	86