

Category 5e+ UTP Information Outlets



Description

Digi-Link P200 Information Outlet series includes high quality, state-of-the-art faceplates for perfect and professional installations, needed to provide fully compliant copper cabling systems. All jacks fully conform to TIA/EIA-568-B.2 Category 5e and high performance keystone jacks CLASS D ISO/IEC-11801 (2nd Edition) 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 Digi-Link cabling components provide high-quality cabling systems, which are supported by the Lifetime Warranty. Digi-Link P200 information outlets have been engineered to ensure full featured end-to-end connectivity that surpasses Cat 5e requirements. The shutter front access for the cable prevents the entry of dust while the "PERFECT FIT" connector folder design helps easy snapping and removal of the keystone jacks. The cable tie anchor point provides highly effective strain relief for cables.

Applications

Digi-Link P200 Information Outlet series fully support all presently available LAN applications, including the following protocols:

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

Qualifications and Approvals

Digi-Link P200 Information Outlet series are supported by Lifetime Warranty Digi-Link. P200 Information Outlet series comply to IEC 60603 and to the following standards:

Transmission:

- ANSI/TIA/EIA-568-B.2
- 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.
- ✓ Modular design - providing easier access, better and faster wire connection.
- ✓ Detailed installation manual in English - providing clear and comprehensive instructions.
- ✓ Exceeding Category 5e performance - providing full support to Gigabit Ethernet.
- ✓ 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.

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.

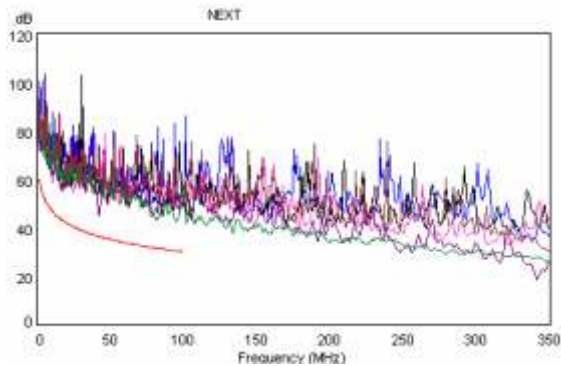
Category 5e+ UTP Information Outlets

Performance Characteristics TIA/EIA-568-B2												
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	1.3	67.0	80.2	64.0	77.20		86.6		70.0	17.0	21.8
1.00	2.3	2.0	62.8	74.2	59.8	72.20	56.8	77.3	53.8	69.5	17.0	22.7
4.00	4.4	4.0	53.6	73.0	50.6	63.00	45.4	65.0	42.4	57.3	17.0	29.8
8.00	6.3	5.8	48.6	70.7	45.6	59.20	39.3	58.7	36.3	50.9	17.0	32.0
10.00	7.1	6.5	47.0	67.3	44.0	56.80	37.4	49.6	34.4	49.0	17.0	34.6
16.00	9.1	8.2	43.6	63.0	40.6	54.00	33.3	45.5	30.3	44.9	17.0	31.3
20.00	10.2	9.2	42.0	58.2	39.0	51.30	31.4	43.6	28.4	42.9	17.0	29.4
25.00	11.4	10.4	40.3	52.0	37.3	49.40	29.4	41.9	26.4	40.9	16.0	23.7
31.25	12.9	11.6	38.7	48.0	35.7	46.60	27.5	46.0	24.5	39.1	15.1	24.8
62.50	18.6	16.7	33.6	42.9	30.6	40.80	21.5	41.8	18.5	33.9	12.1	19.0
100.00	24.0	21.4	30.1	40.2	27.1	36.90	17.4	39.4	14.4	31.2	10.0	18.4
200.00	**	31.1	**	35.0	**	31.90	**	30.8	**	24.0	**	15.3

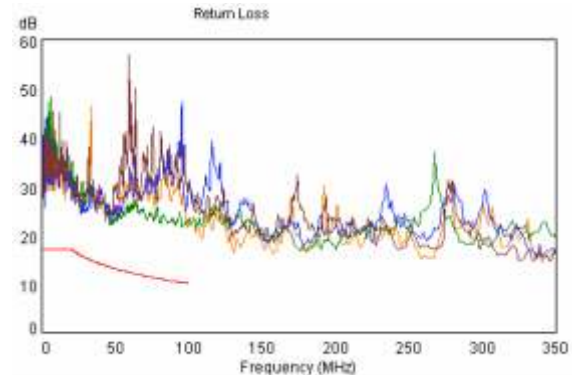
** Extrapolated Values

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
LCL	66-20·Log(f) dB min @ 1-100 MHz

Typical NEXT Loss



Typical Return Loss



Ordering Information

P/N	Description	Ports	Dimensions mm	
			L	W
DCEIOSMUXXXX	Cat5e+ Information Outlet - Single	1	86	86
DCEIODMUXXXX	Cat5e+ Information Outlet - Dual	2	86	86
DCEIOQMUNIXXX	Cat5e+ Information Outlet - Quad	4	147	86

Category 5e+ UTP Surface Mount Type Information Outlet



Description

Digi-Link P200 UTP Surface Mount Type Information Outlet series includes pre-loaded outlet boxes with high performance Category 5e+ 8-position/8-contact (8P8C) jacks conforming to IEC 60603-7-2 (unshielded 100 MHz connectors). These are available in single & double ports, with 110 IDC back interconnection blocks in T568A, T568B, with built-in shutters dust cover. All jacks fully conform to TIA/EIA-568-B.2 Category 5e, ISO/IEC-11801 (2nd Edition) CLASS D requirements. Digi-Link products ensure long lasting high-performance and full support of all present and emerging applications, including 1000BASE-T (Gigabit-Ethernet).

Applications

Digi-Link P200 unshielded copper RJ-45 SMBs fully support all presently available LAN applications, including the following protocols:

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

Qualifications and Approvals

Digi-Link P200 SMBs are supported by the Lifetime Warranty. Digi-Link P200 SMBs comply to IEC 60603-7-2 (unshielded 100 MHz connectors) and to the following

Transmission:

- ANSI/TIA/EIA-568-B.2 Category 5e
- ISO/IEC-11801 CLASS D
- ETL verified

Safety:

- UL94 V-0 rated plastic materials
- RoHS compliance

Benefits and Features

- ✓ Exceptional material properties and design - providing a unique Lifetime Warranty.
- ✓ Box covers include covered labeling and snap-in colored icons - providing elegant and professional outlet identification.
- ✓ All boxes equipped with 3-side knock-out entries - providing easier cable access from any direction.
- ✓ All boxes supplied with built-in shutters - providing efficient dust protection in harsh environments.
- ✓ 90° design keystone jacks - providing easier access, better and faster wire connection.
- ✓ Detailed installation manual in English providing clear and comprehensive instructions.
- ✓ Exceeding Category 5e performance - providing full support to Gigabit Ethernet.
- ✓ 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 - providing a wider product range.

Physical and Mechanical Properties

Box Material	High impact, Flame-retardant plastic compound, UL 94 V-0.
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.

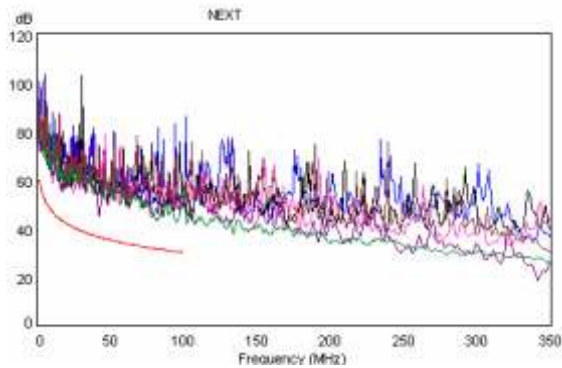
Category 5e+ UTP Surface Mount Type Information Outlet

Performance Characteristics TIA/EIA-568-B2												
FREQUENCY (MHz)	INSERTION LOSS (Attenuation) dB/100m		NEXT (db)		PSNEXT (db)		ELFEXT (db)		PSELFEXT (db)		RETURN LOSS (db)	
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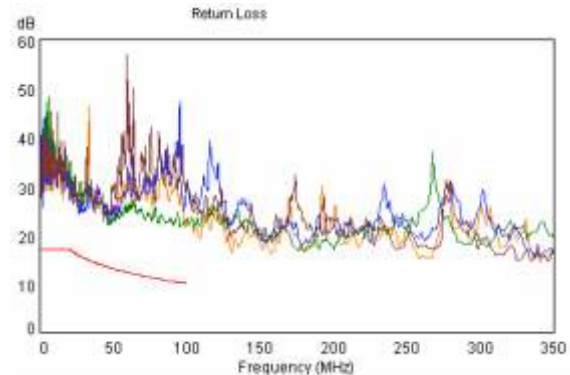
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Propagation Delay	2.5 nS max @ 1-100 MHz
Propagation Delay Skew	1.25 nS max @ 1-100 MHz
Current rating	1.5 A max.
Contact resistance	20 mΩ (max) per contact
Input/Output resistance	200 mΩ (max)
Input/Output resistance Unbalance	50 mΩ (max)
Voltage 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

P/N	Description	Type	T568	
DCEIOSSXXXX	Cat5e+ UTP Information Outlet- Smb- Single	Single	B	
DCEIODSXXXX	Cat5e+ UTP Information Outlet- Smb- Dual	Dual	B	