

Digi-Link P800 Cat6(A) 10G Cabling Systems



Description

Headroom that significantly exceeds proposed Category 6(A) Specifications.

Digi-Link P800 solution fully complies with the latest IEEE 802.3an task force guidelines link segment specifications 10GBASE-T in addition to the latest TIA/EIA and ISO/IEC Augmented Category 6/Class E (A) requirements.

The Digi-Link P800 solution supports 10 Gig end to end in a 100 meter Channel and meet the PSANEXT, PSAELFEXT and Insertion Loss specifications at 500 MHz as per draft IEEE 802.3an. The Alien Crosstalk Channel Performance across swept frequency (1-500 MHz) and tested in a stringent 6 around-1 configuration that is representative of worst case installation conditions.

The Digi-Link P800 system meets C NEXT, PSNEX, PSELFEXT, and return loss to 800 MHz as per the ISO New York Item Proposal (NWIP @ 500 MHz). The Digi-Link P800 components are fully backward compatible in terms of Channel Performance and installation techniques. Digi-Link P800 System, when installed by a Digi-Link Certified Cabling Engineer (DCCE), attracts a 20 year Performance Warranty on the entire system.

Benefits and Features

- ✓ Performance optimized to 800 MHz for Channel
- ✓ Performance guaranteed to meet or exceed Category 6A/Class E (A) Channel Specifications to 500 MHz.
- ✓ Exhibits a minimum of 6 times more headroom/ margin than that of Cat6+ as specified by standards in a Channel at 250 MHz.
- ✓ The uniquely designed keystone jacks exhibit higher margin and performance than the existing products in the same category. These jacks are designed to give Extreme Performance in Channel and reduce the noise induced by adjacent cables (AXTALK). This system is designed to give you 10Gig performance end to end in a 100 mtr Channel.
- ✓ Supports IEEE 802.3 1000BASE-T, TIA-854-A 1000BASE-TX, ATM, other legacy LANs and applications (Video, BAS)
- ✓ Backward compatible with existing Digi-Link cabling and connecting Hardware.

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