

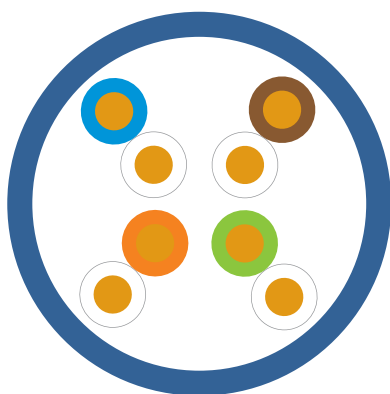
PRODUCT SPECIFICATIONS

UTP6P-MxB

Cat 6 24 AWG U/UTP Cable, Plenum Rated

APPLICATION

Leviton Category 6 cable features a reduced diameter compared to other Cat 6 24 AWG UTP cables. The product is an ETL Cat 6 verified cable, constructed without the center spline for easy installation and termination. The cable is capable of transmitting applications such as 1000BASE-T, ideal for network applications that extend to 250 MHz. The cable is recommended for basic desktop, phone applications, and a low density of connected devices.



COUNTRY OF ORIGIN

USA

WARRANTY INFORMATION

For Leviton product warranties, go to Leviton.com/ns/warranty

FEATURES & BENEFITS

- Characterized to 500 MHz, 250 MHz greater than the standard
- Provides Cat 6 performance
- Cost effective Cat 6 solution
- Provides additional usable bandwidth required for future applications
- Superior box design allows cable to be pulled easily from the box with minimum kinking
- Compact box design takes up less shelf space
- Clearly identified packaging eliminates potential confusion
- Supports bundles of 240 cables for 100 W PoE
- 24 AWG bare copper wire insulated with thermoplastic
- Two insulated conductors twisted together to form a pair and four such pairs cabled to form the basic unit
- Jacketed with flame-retardant polymer
- Made with Leviton FLX-1™ technology for maximum flexibility, tighter bend radius and smoother pulls
- 100% Recyclable Packaging

STANDARDS & REGULATIONS

- ANSI/TIA-568.2
- ISO/IEC 11801-1
- EN 50173-1
- IEC 61156-5
- RoHS 2 Compliant
- c(UL)us listed to UL 444 — CAN/CSA C22.2 No. 214
- IEEE 802.3 PoE Type 1, 2, 3, 4 (100 watts max)
- Cisco UPOE, UPOE+ (90 watts max)
- Power over HDBaseT™ PoH (95 watts max)

FIRE RATING

- CMP/FT6
- NFPA-262

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TECHNICAL SPECIFICATIONS

Mechanical Properties

Bending radius	≥ 4 x OD without load
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Electrical Properties (20 °C ± 5 °C)

DC resistance	9.38 Ohms/100 m max at +20 °C
Resistance unbalance	Max. 5%
Mutual capacitance	Nom. 5.3 nf Ohms/100 m max
Capacitance unbalance (pair to ground)	Max. 330 pf/100 m at 1 kHz
Characteristic impedance (1 - 100 MHz)	(100 ± 13) Ω
Nominal velocity of propagation	65%
Delay skew	45 ns/100 m max.

CHARACTERISTICS

Dimensional Characteristics

Length per reel	305 m
Number of pairs	4

Usage Characteristics

Category	Cat 6
Type of cable	UTP
Temperature (Installation):	+10 to +50 °C
Temperature (Operating):	-20 to +60 °C
Temperature (Storage):	-20 to +60 °C
Listed cable temperature:	+ 75 °C

HIGH SPEED DATA AND POWER APPLICATIONS

IEEE 802.3	2.5GBASE-T (2.5 Gb/s), 1000BASE-T (1 Gb/s), 100BASE-TX (100 Mb/s), 10BASE-T (10 Mb/s)
IEEE 802.3	PoE Types 1, 2, 3, and 4

CONSTRUCTION

Conductor	Bare copper wire	24 AWG
Insulation	Thermoplastic	Ø 1.02 mm
Cable lay-up	4 pairs with different pitches	
Outer jacket	CMP/FT6	
Outer diameter	Ø 5.84 mm	

COLOR CODE

Pair-1	White	Blue
Pair-2	White	Orange
Pair-3	White	Green
Pair-4	White	Brown

GUARANTEED PRODUCT PERFORMANCE TRANSMISSION CHARACTERISTICS

Freq.	RL (dB)		NEXT (db)		PS NEXT (dB)		ACR (dB/100 m)*		PSACR (dB/100 m)*	
	TIA Spec	Product Guarantee	TIA Spec	Product Guarantee	TIA Spec	Product Guarantee	TIA Spec	Product Guarantee	TIA Spec	Product Guarantee
MHz										
1	20.0	20.0	74.3	74.3	72.3	72.3	72.3	72.3	70.3	70.3
4	23.0	23.0	65.3	65.3	63.3	63.3	61.5	61.5	59.5	59.5
10	25.0	25.0	59.3	59.3	57.3	57.3	53.3	53.3	51.3	51.3
16	25.0	25.0	56.2	56.2	54.2	54.2	48.7	48.7	46.7	46.7
20	25.0	25.0	54.8	54.8	52.8	52.8	46.3	46.3	44.3	44.3
31.25	23.6	23.6	51.9	51.9	49.9	49.9	41.2	41.2	39.2	39.2
62.5	21.5	21.5	47.4	47.4	45.4	45.4	32.0	32.0	30.0	30.0
100	20.1	20.1	44.3	44.3	42.3	42.3	24.5	24.5	22.5	22.5
150	18.9	18.9	41.7	41.7	39.7	39.7	16.9	16.9	14.9	14.9
200	18.0	18.0	39.8	39.8	37.8	37.8	10.8	10.8	8.8	8.8
250	17.3	17.3	38.3	38.3	36.3	36.3	5.5	5.5	3.5	3.5
300**	—	16.8	—	37.1	—	35.1	—	0.7	—	-1.3
350**	—	16.3	—	36.1	—	34.1	—	-3.6	—	-5.6
400**	—	15.9	—	35.3	—	33.3	—	-7.7	—	-9.7
450**	—	15.5	—	34.5	—	32.5	—	-11.5	—	-13.5
500**	—	15.2	—	33.8	—	31.8	—	-15.1	—	-17.1

*Values for ACR and PSACR are provided as calculations.

**Leviton Cat 6 cable is guaranteed between 1 MHz and 250 MHz. Values above 250 MHz are for reference only.

PRODUCT SPECIFICATIONS

UTP6P-MxB

GUARANTEED PRODUCT PERFORMANCE TRANSMISSION CHARACTERISTICS, CONTINUED

Freq. MHz	IL (dB/100 m)		ACRF (dB/100 m)		PSACRF (dB/100 m)		LCL/TCL (dB)	EL TCTL (dB)
	TIA Spec	Product Guarantee	TIA Spec	Product Guarantee	TIA Spec	Product Guarantee	Product Guarantee	Product Guarantee
1	2.0	2.0	67.8	67.8	64.8	64.8	40.0	35.0
4	3.8	3.8	55.8	55.8	52.8	52.8	40.0	23.0
10	6.0	6.0	47.8	47.8	44.8	44.8	40.0	15.0
16	7.6	7.6	43.7	43.7	40.7	40.7	38.0	10.9
20	8.5	8.5	41.8	41.8	38.8	38.8	37.0	9.0
31.25	10.7	10.7	37.9	37.9	34.9	34.9	35.1	—
62.5	15.4	15.4	31.9	31.9	28.9	28.9	32.0	—
100	19.8	19.8	27.8	27.8	24.8	24.8	30.0	—
150	24.7	24.7	24.3	24.3	21.3	21.3	28.2	—
200	29.0	29.0	21.8	21.8	18.8	18.8	27.0	—
250	32.8	32.8	19.8	19.8	16.8	16.8	26.0	—
300*	—	36.4	—	18.3	—	15.3	25.2	—
350*	—	39.8	—	16.9	—	13.9	24.6	—
400*	—	43.0	—	15.8	—	12.8	24.0	—
450*	—	46.0	—	14.7	—	11.7	23.5	—
500*	—	48.9	—	13.8	—	10.8	23.0	—

*Leviton Cat 6 cable is guaranteed between 1 MHz and 250 MHz. Values above 250 MHz are for reference only.

PART NUMBERS

Description	Part No.
Cat 6 24 AWG U/UTP Cable, plenum rated, blue, 305 m (reel in a box)	310-UTP6P-MLB
Cat 6 24 AWG U/UTP Cable, plenum rated, white, 305 m (reel in a box)	312-UTP6P-MWB

PRINT LEGEND:

Leviton CAT 6 LAN Cable CMP 24 AWG 4PR 75C UTP 3162765 C(ETL)US --- FT6, UTP6P-MLB ETL Verified to ANSI/TIA-568.2 & ISO/IEC 11801 CAT 6
[PATENT] [DATE] [COUNTER] NVP 67.0 COUNTRY OF ORIGIN: UNITED STATES

For further support information, visit leviton.com/ns/support

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