

## Cat 6 23 AWG U/UTP Cable, Plenum Rated

### APPLICATION

Leviton Category 6 23 AWG cable offers enhanced Cat 6 electrical performance for today's enterprise applications. Featuring 5 dB of margin to all TIA crosstalk parameters, the Leviton Cat 6 cable provides better signal strength and less susceptibility to external noise for your intelligent building devices.



### BENEFITS

- Optimal support for Gigabit Ethernet with headroom
- Power sum characterization gives highest performance using existing applications
- Addition of balance requirements improves overall cable performance and reduces cable emissions which results in reduced transmission errors
- Guaranteed to 350 MHz, 100 MHz greater than the standard
- Able to bundle 312 cables to support 100 W PoE

### FEATURES

- Full Power Sum Performance
- Documented balance characteristics (TCL, EL TCTL)
- 23 AWG bare copper wire insulated with thermoplastic insulation
- Two insulated conductors twisted together to form a pair and four such pairs laid up with cross-filler to form the basic unit
- Jacketed with flame-retardant PVC
- Made with Leviton's advanced FLX-1™ technology for maximum flexibility, tighter bend radius, and smoother pulls

### STANDARDS & REGULATIONS

- ANSI/TIA-568.2-D Cat 6
- ISO/IEC 11801 2ND Edition Category 6
- EN 50173-1 Class E
- IEC 61156-5
- cULus listed to UL 444 - CAN/CSA C22.2
- IEEE 802.3bt PoE Type 1, 2, 3, 4 (100 watts max)
- Cisco UPOE, UPOE+ (90 watts max)
- Power over HDBaseT™ PoH (95 watts max)
- RoHS 2 Compliant

### FIRE RATING

- CMP/FT6
- NFPA 262

### COUNTRY OF ORIGIN

USA

### WARRANTY INFORMATION

For Leviton product warranties, go to [leviton.com/ns/warranty](http://leviton.com/ns/warranty)

**PRODUCT SPECIFICATIONS**  
**EUT6P-MxB**

**TECHNICAL SPECIFICATIONS**

Mechanical Properties	
Bending radius	≥ 4 x OD without load
Usage Characteristics	
Category	Cat 6
Fire Safety	CMP/FT6 NFPA 262
Temperature (Operating):	-20 °C to +60 °C
Temperature (Installation):	0 °C to +50 °C
Temperature (Storage):	-20 °C to +60 °C
Listed cable temperature	+75 °C
Electrical Properties (-20 °C ± 5 °C)	
DC resistance	9.38 Ohms/100 m max at +20 °C
Resistance unbalance	Max. 5% at +20 °C
Mutual capacitance	Nom. 5.1 nf Ohms/100 m
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	68%
Delay skew	45 ns/100 m max

**CONSTRUCTION**

Conductor	Bare copper wire	23 AWG
Insulation	Thermoplastic insulation	Ø 1.016 mm
Cable lay-up	4 pairs with different pitches	
Outer jacket	CMP/FT6	
Outer diameter	Ø 5.72 mm (0.225 in)	

**HIGH SPEED DATA AND POWER APPLICATIONS**

IEEE 802.3	2.5/5GBASE-T (2.5/5 Gb/s), 1000BASE-T (1 Gb/s), 100BASE-TX (100 Mb/s), 10BASE-T (10 Mb/s)
IEEE 802.3	PoE Types 1,2,3,4 (100 watts max)

**COLOR CODE**

Blue	White
Orange	White
Green	White
Brown	White

**TYPICAL PRODUCT PERFORMANCE TRANSMISSION CHARACTERISTICS**

Freq.	RL (dB)		NEXT (dB)		PSNEXT (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
1	20.0	20.0	74.3	79.3	72.3	77.3	72.3	77.3	70.3	75.3
4	23.0	23.6	65.3	70.3	63.3	68.3	61.5	66.5	59.5	64.5
10	25.0	26.0	59.3	64.3	57.3	62.3	53.3	58.4	51.3	56.4
16	25.0	26.0	56.2	61.2	54.2	59.2	48.7	53.7	46.7	51.7
20	25.0	26.0	54.8	59.8	52.8	57.8	46.3	51.4	44.3	49.4
31.25	23.6	25.0	51.9	56.9	49.9	54.9	41.2	46.3	39.2	44.3
62.5	21.5	23.5	47.4	52.4	45.4	50.4	32.0	37.1	30.0	35.1
100	20.1	22.5	44.3	49.3	42.3	47.3	24.5	29.6	22.5	27.6
250	17.3	20.5	38.3	43.3	36.3	41.3	5.5	10.7	3.5	8.7
350	—	19.8	—	41.1	—	39.1	—	1.6	—	-0.4
400*	—	19.5	—	40.3	—	38.3	—	-2.4	—	-4.4
500*	—	19.0	—	38.8	—	36.8	—	-9.8	—	-11.8
600*	—	18.6	—	37.6	—	35.6	—	-16.5	—	-18.5

\*Product is guaranteed between 1 MHz and 350 MHz. Values above 350 MHz are for reference only. Values for ACR are provided as calculations. TIA values for PSACR are provided as calculations; PSACR is a guaranteed parameter up to 250 MHz.

# PRODUCT SPECIFICATIONS

## EUT6P-MxB



EUT6P-MxB

### TYPICAL PRODUCT PERFORMANCE TRANSMISSION CHARACTERISTICS, CONTINUED

Freq. MHz	IL (dB/100 m)		ACRF (dB/100 m)		PSACRF (dB/100 m)		LCL/TCL (dB)	ELTCTL (dB)
	TIA Spec	Product Guarantee	TIA Spec	Product Guarantee	TIA Spec	Product Guarantee	Product Guarantee	Product Guarantee
1	2.0	2.0	67.8	72.8	64.8	69.8	40.0	35.0
4	3.8	3.8	55.8	60.8	52.8	57.8	40.0	23.0
10	6.0	5.9	47.8	52.8	44.8	49.8	40.0	15.0
16	7.6	7.5	43.7	48.7	40.7	45.7	38.0	10.9
20	8.5	8.4	41.8	46.8	38.8	43.8	37.0	9.0
31.25	10.7	10.6	37.9	42.9	34.9	39.9	35.1	—
62.5	15.4	15.3	31.9	36.9	28.9	33.9	32.0	—
100	19.8	19.7	27.8	32.8	24.8	29.8	30.0	—
250	32.8	32.6	19.8	24.8	16.8	21.8	26.0	—
350	—	39.5	—	21.9	—	18.9	24.6	—
400*	—	42.7	—	20.8	—	17.8	24.0	—
500*	—	48.6	—	18.8	—	15.8	23.0	—
600*	—	54.1	—	17.2	—	14.2	22.2	—

\*Product is guaranteed between 1 MHz and 350 MHz. Values above 350 MHz are for reference only. Values for ACR are provided as calculations. TIA values for PSACR are provided as calculations; PSACR is a guaranteed parameter up to 250 MHz.

### PART NUMBERS

Description	Part No.
Cat 6 23 AWG U/UTP Cable, plenum rated, blue, 305 M (reel in a box)	110-EUT6P-MLB
Cat 6 23 AWG U/UTP Cable, plenum rated, gray, 305 M (reel in a box)	111-EUT6P-MSB
Cat 6 23 AWG U/UTP Cable, plenum rated, white, 305 M (reel in a box)	112-EUT6P-MWB
Cat 6 23 AWG U/UTP Cable, plenum rated, yellow, 305 M (reel in a box)	113-EUT6P-MYB
Cat 6 23 AWG U/UTP Cable, plenum rated, green, 305 M (reel in a box)	115-EUT6P-MGB

For further support information, visit [leviton.com/ns/support](http://leviton.com/ns/support)

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**USA**  
 Network Solutions Headquarters  
 +1 (800) 722 2082  
[infoUSA@leviton.com](mailto:infoUSA@leviton.com)  
 Leviton Berk-Tek Cable: +1 (800) 237 5835  
[berktek.info@leviton.com](mailto:berktek.info@leviton.com)

**Asia Pacific**  
 +852 3620 2602  
[infoAPAC@leviton.com](mailto:infoAPAC@leviton.com)

**Canada**  
 +1 (800) 461 2002  
[infoCanada@leviton.com](mailto:infoCanada@leviton.com)

**Europe**  
 +44 (0) 1592 772124  
[infoEurope@leviton.com](mailto:infoEurope@leviton.com)

**Latin America**  
 MX: +52 (55) 2128 6286  
 LATAM: +52 (55) 2333 5963  
[infoLATAM@leviton.com](mailto:infoLATAM@leviton.com)

**Middle East & Africa**  
 +971 (4) 247 9800  
[infoMEA@leviton.com](mailto:infoMEA@leviton.com)

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