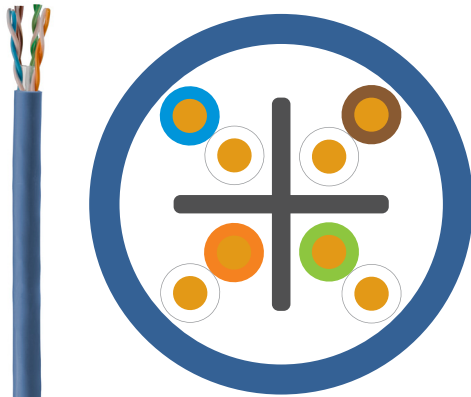


Leviton Cat 6 U/UTP Cables

APPLICATION

Leviton Cat 6 U/UTP Cables are rated to 250 MHz and are suitable for use in all Cat 6/Class E structured cable systems to support Fast Ethernet, Gigabit Ethernet, Power over Ethernet, voice, and broadband video transmissions. Cables conform to ANSI/TIA-568.2-D Cat 6 and ISO/IEC 11801 2nd Edition Class E Cat 6 requirements. The cable features a LSHF/LSZH sheath designed for indoor installation environments.



FEATURES & BENEFITS

- Compact, round design saves space and enhances flexibility
- Supports all Cat 6 / Class E protocols including Gigabit Ethernet
- Designed to enable remote powering / Power over Ethernet up to 90 watts

STANDARDS & REGULATIONS

- ISO/IEC 11801 Class E, IEC 61156-5
- ANSI/TIA 568.2-D
- IEEE 802.3bt PoE Type 1, 2, 3, 4 (90 watts max)
- Cisco UPOE, UPOE+ (90 watts max)
- Power over HDBaseT™ PoH (95 watts max)

FIRE RATING

- IEC60332-1

ENVIRONMENTAL COMPLIANCE

- RoHS

COUNTRY OF ORIGIN

China

WARRANTY INFORMATION

For Leviton product warranties, go to Leviton.com/NS/Warranty

PRODUCT SPECIFICATIONS
UTP6Z-MxB Cat 6 U/UTP Cables

TECHNICAL SPECIFICATIONS	
Electrical Parameters (20° C ± 5° C)	
Performance (Typical)	
DC Resistance	Max. 9.38 Ω/100 m at +20 °C
DC Resistance Unbalance	Max. 2%
Delay Skew	45 nF/100 m at 1 kHz
Mean Characteristic Impedance	100Ω ± 15Ω max
Nominal Velocity of Propagation	65%

TECHNICAL DATA - PHYSICAL		
Conductor	23 AWG bare copper	
Max insulated conductor diameter - in. (mm)	0.040	(1.02)
Nom. cable weight - lb./kft (kg/km)	95	(43)
Max. installation tension - lb. (N)	25	(110)
Min. bend radius - in. (mm)	1	(25.4)

MECHANICAL SPECIFICATIONS	
Dimensional Characteristics	
Length per reel	1000 ft (305 m)
Number of pairs	4
Usage Characteristics	
Category	Cat 6
Type of cable	UTP
Temp. (Installation):	0 °C to +50 °C
Temp. (Operating):	-20 °C to +75 °C

PRODUCT SPECIFICATIONS

UTP6Z-MxB Cat 6 U/UTP Cables

TIA/EIA-568.2-D ELECTRICAL CHARACTERISTICS

Freq. MHz	Input Impedance (Ohms)	ATT (dB/100m)	RL (dB)	NEXT (dB)	PSNEXT (dB)	PSELF-EXT (dB)	PD (ns/100m)
1	100 ± 15	2.0	20.0	77.3	75.3	68.8	570.0
4	100 ± 15	3.8	23.0	68.3	66.3	56.8	552.0
8	100 ± 15	5.3	24.5	63.8	61.8	50.7	546.7
10	100 ± 15	6.0	25.0	62.3	60.3	48.8	545.4
16	100 ± 15	7.6	25.0	59.2	57.2	44.7	543.0
20	100 ± 15	8.5	25.0	57.8	55.8	42.8	542.0
25	100 ± 15	9.5	24.3	56.3	54.3	40.8	541.2
31.25	100 ± 15	10.7	23.6	54.9	52.9	38.9	540.4
62.5	100 ± 15	15.4	21.5	50.4	48.4	32.9	538.6
100	100 ± 15	19.8	20.1	47.3	45.3	28.8	537.6
200	100 ± 22	29.0	18.0	42.8	40.8	22.8	536.5
250	100 ± 22	32.8	17.3	41.3	39.3	20.8	536.3
300*	100 ± 25	36.4	16.8	40.1	38.1	19.3	536.1

*Values above 250 MHz are for information only

IEC-61156-5 ELECTRICAL CHARACTERISTICS

Freq. MHz	Input Impedance (Ohms)	ATT (dB/100m)	RL (dB)	NEXT (dB)	PSNEXT (dB)	ELFEXT (dB)	PSELF-EXT (dB)
4	100 ± 15	3.8	23.0	66.3	63.3	56.0	53.0
8	100 ± 15	5.4	24.5	61.8	58.8	49.9	46.9
10	100 ± 15	6.0	25.0	60.3	57.3	48.0	45.0
16	100 ± 15	7.6	25.0	57.2	54.2	43.9	40.9
20	100 ± 15	8.5	25.0	55.8	52.8	42.0	39.0
25	100 ± 15	9.6	24.3	54.3	51.3	40.0	37.0
31.25	100 ± 15	10.7	23.6	52.9	49.9	38.1	35.1
62.5	100 ± 15	15.5	21.5	48.4	45.4	32.1	29.1
100	100 ± 15	19.9	20.1	45.3	42.3	28.0	25.0
200	100 ± 22	29.1	18.0	40.8	37.8	22.0	19.0
250	100 ± 22	33.0	17.3	39.3	36.3	20.0	17.0

PART NUMBERS

Description	Part No.	Packaging	Availability
Cat 6, 23 AWG U/UTP Cable, LSZH, blue	160-UTP6Z-MLB	1000 ft (305 m) box	China
Cat 6, 23 AWG U/UTP Cable, LSZH, gray	161-UTP6Z-MSB	1000 ft (305 m) box	China

For further support information, visit Leviton.com/NS/Support

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