

UTP6Z Cat 6 U/UTP Cables

APPLICATION

Leviton UTP6Z 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 (PoE), 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 (PoE) up to 90 watts

STANDARDS & REGULATIONS

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

FIRE RATING

- IEC 60332-1

ENVIRONMENTAL COMPLIANCE

- RoHS

COUNTRY OF ORIGIN

Korea

WARRANTY INFORMATION

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

PRODUCT SPECIFICATIONS
UTP6Z Cat 6 U/UTP Cables

MECHANICAL SPECIFICATIONS

Dimensional Characteristics

Length per reel	1000 ft (305 m)
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Number of pairs	4
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Usage Characteristics

Category	Cat 6
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Type of cable	U/UTP
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Temp. (Storage):	-20 °C to +75 °C (+4 °F to +167 °F)
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Temp. (Installation):	-0 °C to +60 °C (-32 °F to +140 °F)
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Temp. (Operating):	-20 °C to +75 °C (+4 °F to +167 °F)
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Listed cable temp.	75 °C (167 °F)
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TECHNICAL DATA - PHYSICAL

Conductor	23 AWG bare copper	
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Cable outer diameter - in. (mm)	0.236	(6.0)
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Max insulated conductor diameter - in. (mm)	0.037	(0.95)
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Nom. cable weight - lb./kft (kg/km)	85.1	(38.6)
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Max. installation tension - lb. (N)	25	(110)
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Min. bend radius - in. (mm)	1	(25.4)
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TECHNICAL SPECIFICATIONS

Electrical properties (20 °C ± 5 °C)

Performance (Typical)

DC Resistance	Max. 9.38 Ω/100 m at +20 °C
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DC Resistance Unbalance	Max. 5%
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Delay Skew	45 nF/100 m at 1 kHz
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Mean Characteristic Impedance	100Ω ± 15Ω max
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Nominal Velocity of Propagation	69%
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COLOR CODE

Pair 1	Blue	White
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Pair 2	Orange	White
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Pair 3	Green	White
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Pair 4	Brown	White
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PRODUCT SPECIFICATIONS
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GUARANTEED PRODUCT PERFORMANCE TRANSMISSION CHARACTERISTICS

Freq.	RL (dB)	IL (dB)	NEXT (dB)	PS-NEXT (dB)	ACRF (dB)	PS-ACRF (dB)
MHz	Min.	Max.	Min.	Min.	Min.	Min.
1	20.0	2.0	74.3	72.3	67.8	64.8
4	23.0	3.8	65.3	63.3	55.8	52.8
8	24.5	5.3	60.8	58.8	49.7	46.7
10	25.0	6.0	59.3	57.3	47.8	44.8
16	25.0	7.6	56.3	54.3	43.7	40.7
20	25.0	8.5	54.8	52.8	41.8	38.8
25	24.3	9.5	53.3	51.3	39.8	36.8
31.25	23.6	10.7	51.9	49.9	37.9	34.9
62.5	21.5	15.4	47.4	45.4	31.9	28.9
100	20.1	19.8	44.3	42.3	27.8	24.8
200	18.0	29.0	39.8	37.8	21.8	18.8
250	17.3	32.8	38.3	36.3	19.8	16.8

PART NUMBERS

Description	Part Number	Packaging	Availability
UTP6Z Cat 6, 23 AWG U/UTP cable, LSZH, blue	290-UTP6Z-MLB	1000 ft (305 m) Reel-in-Box	APAC and LATAM
UTP6Z Cat 6, 23 AWG U/UTP cable, LSZH, gray	291-UTP6Z-MSB	1000 ft (305 m) Reel-in-Box	APAC and LATAM

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