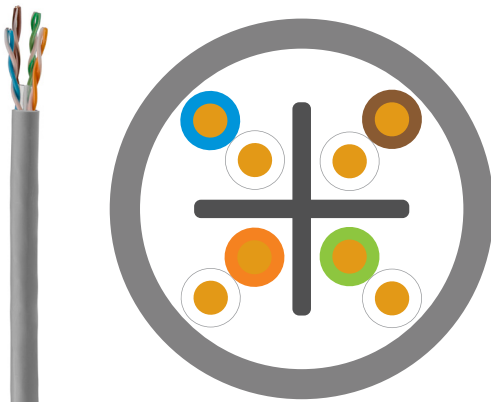


UT46Z Cat 6 U/UTP Cables

APPLICATION

Leviton UT46Z 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 Cat 6 and ISO/IEC 11801 2nd Edition Class E Cat 6 requirements. The cable features a 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 100 watts

STANDARDS & REGULATIONS

- ISO/IEC 11801 Class E
- IEC 61156-5
- ANSI/TIA 568
- IEEE 802.3 PoE Type 1, 2, 3, 4 (100 watts max)
- Cisco UPOE, UPOE+ (90 watts max)

FIRE RATING

- IEC 60332-1

ENVIRONMENTAL COMPLIANCE

- RoHS

COUNTRY OF ORIGIN

China

WARRANTY INFORMATION

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

PRODUCT SPECIFICATIONS

UT46Z Cat 6 U/UTP Cables

TECHNICAL SPECIFICATIONS

Electrical properties 20 °C ± 5 °C [68 °F ± 9 °F]

DC resistance	Max. 9.38 Ω/100 m
DC resistance unbalance	≤ 5%
Mutual capacitance	Nom. 5.6 nF/100 m at 1 kHz
Capacitance unbalance (pair-to-ground)	Max. 330 pF/100 m at 1 kHz
Delay skew	45 ns/100 m max.
Nominal velocity of propagation	xx%

MECHANICAL SPECIFICATIONS

Dimensional Characteristics

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

Usage Characteristics

Category	Cat 6
Type of cable	UTP
Temp. (Installation):	0 °C to +50 °C (+32 °F to +122 °F)
Temp. (Operating):	-20 °C to +75 °C (-4 °F to +167 °F)

TECHNICAL DATA - PHYSICAL

Conductor	24 AWG bare copper
Nom. cable diameter	5.6 ± 0.3 mm (0.22 ± 0.01 in)
Nom. cable weight	31 kg/km (21 lb/kft)
Max. installation tension	110 N (25 lbf)
Min. bend radius installation	22 mm (0.88 in) nominal

PRODUCT SPECIFICATIONS

UT46Z Cat 6 U/UTP Cables

ANSI/TIA-568.2 AND IEC-61156-5 ELECTRICAL CHARACTERISTICS								
Freq. MHz	Input Impedance (Ohms)	Insertion Loss (dB)	Return Loss (dB)	NEXT (dB)	PSNEXT (dB)	ACRF (dB)	PSACRF (dB)	Propagation Delay (ns)
1	100 ± 15	2.0	20.0	74.3	72.3	67.8	64.8	570.0
4	100 ± 15	3.8	23.0	66.3	63.3	56.0	53.0	552.0
8	100 ± 15	5.3	24.5	61.8	58.8	49.9	46.9	546.7
10	100 ± 15	6.0	25.0	60.3	57.3	48.0	45.0	545.4
16	100 ± 15	7.6	25.0	57.2	54.2	43.9	40.9	543.0
20	100 ± 15	8.5	25.0	55.8	52.8	42.0	39.0	542.0
25	100 ± 15	9.5	24.3	54.3	51.3	40.0	37.0	541.2
31.25	100 ± 15	10.7	23.6	52.9	49.9	38.1	35.1	540.4
62.5	100 ± 15	15.4	21.5	48.4	45.4	32.1	29.1	538.6
100	100 ± 15	19.8	20.1	45.3	42.3	28.0	25.0	537.6
200	100 ± 22	29.0	18.0	40.8	37.8	22.0	19.0	536.5
250	100 ± 22	32.8	17.3	39.3	36.3	20.0	17.0	536.3

PART NUMBER			
Description	Part Number	Packaging	Availability
UT46Z Cat 6, 24 AWG U/UTP Cable, LSZH, grey	161-UT46Z-MSB	1000 ft (305 m) box	China
UT46Z Cat 6, 24 AWG U/UTP Cable, LSZH, blue	160-UT46Z-MLB	1000 ft (305 m) box	China

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

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