

UTP6R Cat 6 U/UTP Cables

APPLICATION

Leviton UTP6R 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 riser rated flame-retardent PVC jacket.



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
- ANSI/TIA 568.2-D
- 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

- CMR - Riser Rated
- UL 1666

ENVIRONMENTAL COMPLIANCE

- RoHS

COUNTRY OF ORIGIN

Korea

WARRANTY INFORMATION

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

PRODUCT SPECIFICATIONS

UTP6R Cat 6 U/UTP Cables

MECHANICAL SPECIFICATIONS

| Dimensional Characteristics | |
|-----------------------------|------------------|
| Length per reel | 1000 ft (305 m) |
| Number of pairs | 4 |
| Usage Characteristics | |
| Category | Cat 6 |
| Type of cable | U/UTP |
| Temp. (Installation): | 0 °C to +60 °C |
| Temp. (Operating): | -20 °C to +75 °C |

TECHNICAL SPECIFICATIONS

| Electrical properties (20 °C ± 5 °C) | |
|--------------------------------------|-----------------------------|
| Performance (Typical) | |
| DC Resistance | Max. 9.38 Ω/100 m at +20 °C |
| DC Resistance Unbalance | Max. 5% |
| Delay Skew | 45 nF/100 m at 1 kHz |
| Mean Characteristic Impedance | 100Ω ± 15Ω max |
| Nominal Velocity of Propagation | 69% |

TECHNICAL DATA - PHYSICAL

| | | |
|---|--------------------|--------|
| Conductor | 23 AWG bare copper | |
| Cable outer diameter - in. (mm) | 0.236 | (6.0) |
| Max insulated conductor diameter - in. (mm) | 0.037 | (0.95) |
| Nom. cable diameter - in. (mm) | 0.21 | (5.33) |
| Nom. cable weight - lb./kft (kg/km) | 95 | (43) |
| Max. installation tension - lb. (N) | 25 | (110) |
| Min. bend radius - in. (mm) | 1 | (25.4) |

COLOR CODE

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

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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 |
|--|---------------|-----------------------------|--------------|
| UTP6R Cat 6, 23 AWG U/UTP cable, CMR, blue | 290-UTP6R-MLB | 1000 ft (305 m) Reel-in-Box | LATAM, Asia |
| UTP6R Cat 6, 23 AWG U/UTP cable, CMR, grey | 291-UTP6R-MSB | 1000 ft (305 m) Reel-in-Box | LATAM, Asia |

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

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