

eXtreme® CAT 6+ U/UTP LSZH 4-pair Solid LAN Cable

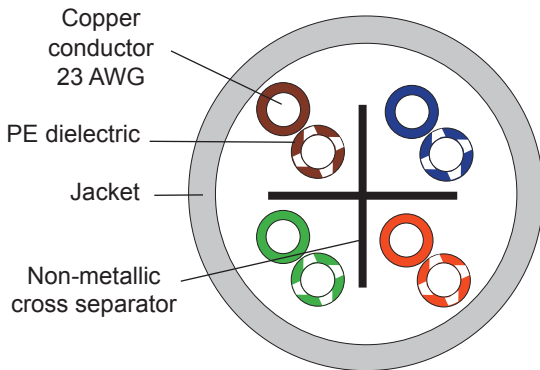
PART NUMBERS

| Description | Part No. |
|--|-----------|
| eXtreme CAT 6+ U/UTP LSZH 4-pair Solid LAN Cable, 305 meter box | UTC6Z-M*B |
| eXtreme CAT 6+ U/UTP LSZH 4-pair Solid LAN Cable, 500 meter reel | UTC6Z-5*S |

* Color for jacket: (W) White, (S) Grey, (L) Blue

APPLICATION

IEEE 802.3: 1000Base-T (Gigabit Ethernet);
100Base-T (fast Ethernet); 10Base-T



STANDARDS COMPLIANCE

TIA-568-C.2 CAT 6 (formerly TIA-568-B.2-1)
ISO/IEC 11801 Class E
IEC 61156-5
EN50173
ZN 50288-6-1

RoHS Compliant

FIRE RATING

UTC6Z-xxx: IEC 60332-1 (vertical flame test),
IEC 60754-2
IEC 61034
UL1581 FT2 (horizontal flame test)

| Construction | | |
|----------------|---|-----------|
| Conductor | Bare copper wire | 23 AWG |
| Insulation | Polyethylene | Ø 0.95 mm |
| Twisting | 4 twisted pairs, 2 single conductors paired Twisted pair color code: 1: Blue+White/Blue 2: Orange+White/Orange 3: Green+White/Green 4: Brown+White/Brown | |
| Cable lay-up | 4 pairs with different pitches | |
| Outer jacket | LSZH | |
| Outer diameter | Ø 5.3 mm ± 0.2 mm (.224") | |

TECHNICAL SPECIFICATION

Mechanical Properties

| | |
|-------------------|--|
| Bending Radius | ≥ 4xOD (without load) |
| Temperature range | during operation: -20° C ~ 60° C during installation 0° C ~ 50° C |

Electrical Properties (-20 °C ± 5 °C)

| | |
|--|-------------------------|
| DC resistance | ≤ 165 Ω/Km |
| Resistance unbalance | Max. 2% at 20° C |
| Insulation resistance (500V) | ≥ 2000 MΩ/Km |
| Mutual capacitance | Nom. 4 nf/100m at 800Hz |
| Capacitance unbalance (pair to ground) | ≤ 1500 pF/Km |
| Characteristic impedance (1 - 100MHz) | (100±15) Ω |
| Nominal velocity of propagation | 67% |
| Test voltage (DC, 1 min.) | 1 kV/1 min. |

Transmission characteristics acc. TIA 568-C.2 CAT 6 (20° C)

| Freq. (MHz) | Attenuation (dB) max. | NEXT (dB) min. | PS-NEXT (dB) min. | ELFEXT (dB) min. | PSELFEXT (dB) min. | Return Loss (dB) min. |
|-------------|-----------------------|----------------|-------------------|------------------|--------------------|-----------------------|
| 1 | 2.0 | 74.3 | 72.3 | 67.8 | 64.8 | 20.0 |
| 4 | 3.8 | 65.3 | 63.3 | 55.8 | 52.8 | 23.0 |
| 8 | 5.3 | 60.8 | 58.8 | 49.7 | 46.7 | 24.5 |
| 10 | 6.0 | 59.3 | 57.3 | 47.8 | 44.8 | 25.0 |
| 16 | 7.6 | 56.3 | 54.3 | 43.7 | 40.7 | 25.0 |
| 20 | 8.5 | 54.8 | 52.8 | 41.8 | 38.8 | 25.0 |
| 25 | 9.5 | 53.4 | 51.4 | 39.8 | 36.8 | 24.3 |
| 31.25 | 10.7 | 51.9 | 49.9 | 37.9 | 34.9 | 23.6 |
| 62.5 | 15.4 | 47.4 | 45.4 | 31.9 | 28.9 | 21.5 |
| 100 | 19.8 | 44.3 | 42.3 | 27.8 | 24.8 | 20.1 |
| 200 | 29.0 | 39.8 | 37.8 | 21.8 | 18.8 | 18.0 |
| 250 | 32.8 | 38.4 | 36.4 | 19.8 | 16.8 | 17.3 |



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