

NETWORK CABLE



CATEGORY 6 UTP LAN Cable

Description

ACTON's economical Category 6 UTP Network Cable is ideal for installations that require operation headroom, with maximum future proof performance. It transmits reliable voice, data and video, is easy to handle and install, and exceeds TIA/EIA 568-B, ISO/IEC 11801, and AS/NZS 3080 Category 6 specifications.

This 4 pair UTP LAN cable is designed for horizontal applications in a high speed structured cabling network, allowing connection between the user outlet and horizontal cross-connect.

ACTON Network cable is designed to support the most sophisticated networking protocols such as ATM 155/622Mbps, Ethernet 10 BASE-T, 100BASE-T, 100BASE-TX, 1000BASE-T Gigabit Ethernet, 4/16 Mb/s Token Ring or Broadband Video, and future applications designed for Category 6 cabling systems. It is designed for full and half duplex operation, and is designed to meet the most advanced UTP applications, making it ideal for high-end transmission networks supporting the most sophisticated networking protocols

Key Features

- 4-Pair Unshielded Twisted Pair Network Cable
- 23 AWG Solid Bare Copper Conductors
- Meets TIA/EIA, ISO/IEC, AS/NZS, & AS/ACIF Specifications
- Suitable for current and future High Speed Networks such as Gigabit Ethernet and beyond
- Metre Marked PVC Sheath
- 305m Easy Pull No Tangle Box
- Cable Usage Record On Box
- Easy to Handle and Install

Ordering Information:

C6S305-BL Cat 6 Solid LAN Cable
305m Box
Blue Sheath

Available From

Specifications

General / Environmental:

Operating temperature: -20 to +60°C
 Max pulling tension: 86 N
 Shipping weight: 11kg/305m nominal

Electrical Characteristics:

Dielectric Strength: AC 1.5 kV (Min) (2.5 kV DC)
 Insulation resistance: $\geq 500M\Omega$ 305m @ 20°C(Min):
 Characteristic Impedance: $100\Omega \pm 15\%$
 DC Resistance Unbalance: 5%(Max):
 Worst case delay skew: 30nS/100m(Max)

Propagation delay: 536nS/100m (Max)
 Nominal velocity propagation: 62.3% Min @ 100Mhz

Conductor:

Material: Solid bare copper wire
 Size: 23 AWG
 Conductor diameter: $1/0.58 \pm 0.008$ mm
 Insulation: HDPE High Density Polyethylene
 Ins. Diameter: 0.93mm
 DC Resistance: $9.38\Omega / 100m @ 20^\circ C$ (Max)

Sheath / Jacket:

Material: PVC 75°C
 Overall Diameter: $6.5mm \pm 0.2mm$
 Flammability UL rating: CM grade
 Avg. thickness: 0.52mm
 Filler: PE isolator / separator

Pair identification:

Pair 1 - Blue / White-Blue stripe
 Pair 2 - Orange / White-Orange stripe
 Pair 3 - Green / White-Green stripe
 Pair 4 - Brown / White-Brown stripe

Performance

Standards:

ANSI/TIA/EIA-568-B.2-1 Category 6
 ISO/IEC11801: 2002 (Category 6)
 AS/NZS 3080: 2003 (Category 6)
 AS/ACIF S008

Certification:

Certified Category 6 by ETL / 3P



Guaranteed performance:

| ITEM(d B) Frequency (MHz) | ATT MAX. (dB/100m) | NEXT MIN. (dB) | ACR MIN. (dB) | PS. NEXT MIN. (dB) | PS. ACR MIN. (dB) | ELFEXT MIN. (dB)/100m) | PS. ELFEXT MIN. (dB/100m) | R.L. MIN. (d B) |
|---------------------------------|--------------------------|----------------------|---------------------|-----------------------------|----------------------------|------------------------------|---------------------------------|-----------------------|
| 1 | 2.0 | 76.3 | 74.3 | 74.3 | 72.3 | 67.8 | 64.8 | 20.0 |
| 4 | 3.8 | 67.3 | 63.5 | 65.3 | 61.5 | 55.7 | 52.7 | 23.0 |
| 8 | 5.3 | 62.8 | 57.5 | 60.8 | 55.5 | 49.7 | 46.7 | 24.5 |
| 10 | 6.0 | 61.3 | 55.3 | 59.3 | 53.3 | 47.8 | 44.8 | 25.0 |
| 16 | 7.6 | 58.3 | 50.7 | 56.3 | 48.7 | 43.7 | 40.7 | 25.0 |
| 20 | 8.5 | 56.8 | 48.3 | 54.8 | 46.3 | 41.7 | 38.7 | 25.0 |
| 25 | 9.5 | 55.3 | 45.8 | 53.3 | 43.8 | 39.8 | 36.8 | 24.3 |
| 31.25 | 10.7 | 53.9 | 43.2 | 51.9 | 41.2 | 37.9 | 34.9 | 23.6 |
| 62.5 | 15.4 | 49.4 | 34.0 | 47.4 | 32.0 | 31.8 | 28.8 | 21.5 |
| 100 | 19.8 | 46.3 | 26.5 | 44.3 | 24.5 | 27.8 | 24.8 | 20.1 |
| 155 | 25.1 | 43.5 | 18.4 | 41.5 | 16.4 | 23.9 | 20.9 | 18.8 |
| 200 | 29.0 | 41.8 | 12.8 | 39.8 | 10.8 | 21.7 | 18.7 | 18.0 |
| 250 | 32.8 | 40.3 | 7.5 | 38.3 | 5.5 | 19.8 | 16.8 | 17.3 |

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