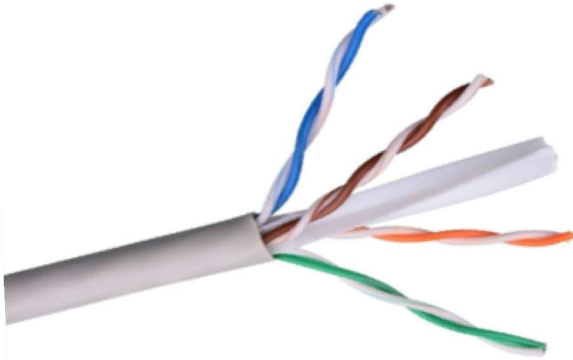


Copper Structured Cabling Solutions

Category 6 Cable

Category 6 (4 Pair) UTP Cable

Global **SIX**



| Specifications | |
|-----------------------|--|
| Test Standard | ISO/IEC 11801, TIA/EIA 568C.2 and EN50173 |
| Conductor - Material | SOLID-Bare Copper |
| Conductor - Dimension | 23 AWG (0.56mm) |
| Insulation - Material | Polyolefin |
| Sheath - Material | PVC/LSZH/UV Resistant PVC(Black Only) |
| Pairs | 4 Twisted Pairs with Cross Divider |
| Pair Colour Code | Blue/White-Blue, Orange/White-Orange, Green/White-Green, Brown/White-Brown |
| Installation Tension | 110N Maximum |
| PoE Compliance | IEEE 802.3af, IEEE 802.3at |

Applications

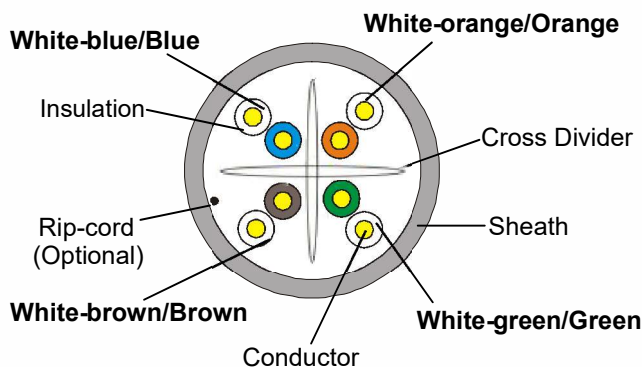
- Cat6 UTP Copper Cable is a component of the GlobalSIX Structured Cabling System. This end-to-end system which is interoperable and backwards-compatible is designed with flexibility to protect network investments well into the future.
- ISO 11801 Class E, ANSI/TIA-568-C.2 Cat6 Standards is ideal for today's high performance equipment and workstations
- Ethernet 10BASE-T, 100BASE-T(Fast Ethernet), 1000BASE-T (Gigabit Ethernet), 10GBASE-T (10 Gigabit Ethernet over limited distance as specified in the industry standards of 10GBASE-T)
- 155Mb/s ATM, 622Mb/s ATM, 1.2Gb/s ATM
- Token Ring 4/16

Third Party Tested - Attestation of Conformity

- Cables For Use In Construction Works
- Reaction to Fire Standards EN50575:2014 including amendments A1:2016 EN 60338-1-1:2004 including amendments A1:2015 and A11:2016 EN 13501-6:2014

Third Party Tested - Compliance Statement

- Unscreened Channel, Class E
- Class E Channel Requirements ISO/IEC 11801-1:2017(Ed. 1,0) / ISO/IEC 11801-2:2017(Ed. 1,0) EN 50173-1:2018 / EN 50173-2:2018, including amendment A1:2010 ANSI/TIA-568-C.2:2009



Part Number

Old Part Number: C6UTP

G6-UTP-C6-X-Y.*

Cat6 UTP Solid Cable

X - Jacket/Sheath: X1=PVC, X2=LSZH, X3=UV RESISTANT PVC

Y - Color: 1=BLUE, 2=GREY, 3=WHITE, 4=GREEN, 5=YELLOW, 6=PURPLE, 7=RED, 8=PINK, 9=ORANGE, 10=BLACK

* - Reel Length: 3=305m, 5=500m

Copper Structured Cabling Solutions

Category 6 Cable

Category 6 (4 Pair) UTP Cable



| ELECTRICAL CHARACTERISTICS STANDARD FOR CATEGORY 6 | | | | | | | | |
|--|----------------------|---------|-----------|------|-------|-----------|-------------|-------------|
| Frequency MHz | Attenuation dB/100 m | NEXT dB | PSNEXT dB | ACR | PSACR | ELFEXT dB | PSELFEXT dB | Return Loss |
| 1 | 2.0 | 74.3 | 72.3 | 72.3 | 70.3 | 67.8 | 64.8 | 20.0 |
| 4 | 3.8 | 65.3 | 63.3 | 61.5 | 59.5 | 55.8 | 52.8 | 23.0 |
| 8 | 5.3 | 60.8 | 58.8 | 55.4 | 53.4 | 49.7 | 46.7 | 24.5 |
| 10 | 6.0 | 59.3 | 57.3 | 53.3 | 51.3 | 47.8 | 44.8 | 25.0 |
| 16 | 7.6 | 56.2 | 54.2 | 48.6 | 46.7 | 43.7 | 40.7 | 25.0 |
| 20 | 8.5 | 54.8 | 52.8 | 46.3 | 44.3 | 41.8 | 38.8 | 25.0 |
| 25 | 9.5 | 53.3 | 51.3 | 43.8 | 41.8 | 39.8 | 36.8 | 24.3 |
| 31.25 | 10.7 | 51.9 | 49.9 | 41.1 | 39.2 | 37.9 | 34.9 | 23.6 |
| 62.5 | 15.4 | 47.4 | 45.4 | 32 | 30 | 31.9 | 28.9 | 21.5 |
| 100 | 19.8 | 44.3 | 42.3 | 24.5 | 22.5 | 27.8 | 24.8 | 20.1 |
| 200 | 29.0 | 39.8 | 37.8 | 10.8 | 8.8 | 21.8 | 18.8 | 18.0 |
| 250 | 32.8 | 38.3 | 36.3 | 5.5 | 3.5 | 19.8 | 16.8 | 17.3 |

| ELECTRICAL CHARACTERISTICS @ 20°C | |
|-----------------------------------|---|
| DC Resistance: | 80 Ohms/km (Max) |
| Resistance Unbalance: | 2% (Max) |
| Mutual capacitance @ 1 kHz: | 42 nF/km (Max) |
| Capacitance Unbalance: | 1000 pF/km (Max) |
| Delay Skew: | 450 nsec/km (Max) |
| Velocity of Propagation: | 0.68 c |
| Characteristic Impedance: | 100 Ohms ± 15% @ 1.0 Mhz – 100 Mhz |
| Characteristic Impedance: | 100 Ohms ± (15 + 0.05(f-100)) @ 100 Mhz – 250 Mhz |

| PHYSICAL PROPERTIES & PACKING | |
|-------------------------------|---|
| Fire safety Rating: | IEC 60332 Part 1 |
| Outside Diameter (Nom): | 6.3 mm |
| Weight (kg/km): | 52.5 |
| Temperature Range: | 0° C to +50°C (Installation) -20°C to +70°C (Operational) |
| Standard Packaging: | 305 m Easy Pull box (16 kg/box) (400mm x 400mm x 210mm) 500 m Plastic Reels (30 kg/Reel) (400mm x 228mm – L30) |

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G6-UTP-C6-X-Y*

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