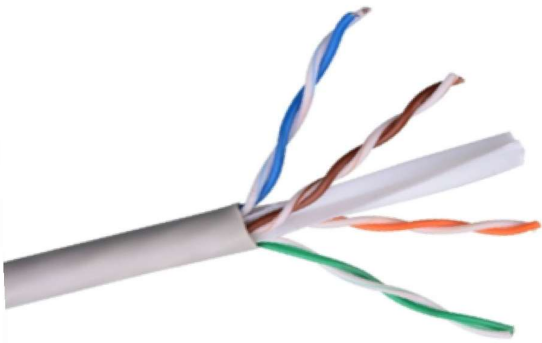


Copper Structured Cabling Solutions

Category 6 Cable

Category 6 (4 Pair) UTP Cable

Global **SIX**



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

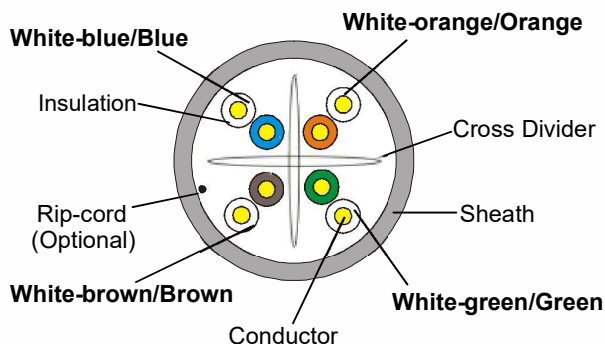
Third Party Tested - Attestation of Conformity

- 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

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



Part Number

G6-UTP-C6-X-Y-*

Cat6 UTP Solid Cable

X - Jacket/Sheath: X1=PVC, X2=LSZH, X3=UV RESISTANT PVC, X4=IEC60332-3-22, X5=IEC60332-3-24
 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

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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	
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)

Fire Safety Rating

- IEC60332 Part 1 (PVC)
- IEC60332-1-2 (LSZH)
- IEC60332-3-22 (LSZH)
- IEC60332-3-24 (LSZH)

Part Number

G6-UTP-C6-X-Y*

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