

Cat.6 bulk cable

U/UTP, LSZH type jacket



PCGUCC6LZGR

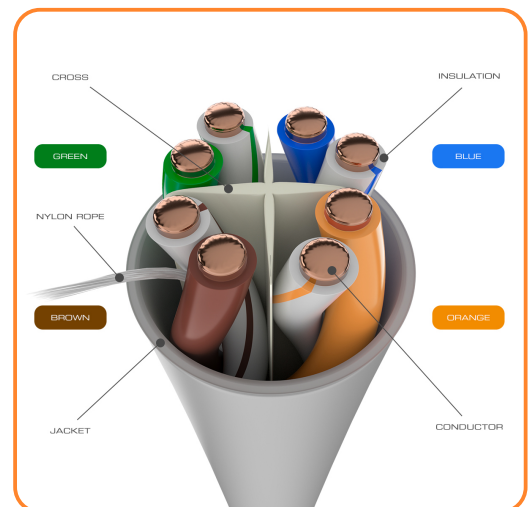
Related products



Exceptional interconnection capability for reliable data transmission

Our Unshielded Twisted Pair (U/UTP) category 6 cable is designed to support transmission speeds of 1 Gigabits per second while ensuring reliable operation at frequencies of 250MHz or higher. Meets all relevant international telecommunications and electrical standards, including ANSI/TIA/EIA 568C.2 and ISO/IEC 11801. This cable is constructed with four pairs of 23AWG solid bare copper wires, according to the production standards, combined with a high density polyethylene foam, to ensure maximum strength. An additional benefit of this cable is provided by the low smoke zero halogen jacket known as LSZH. This material is characterized by low smoke, non-toxic and non-corrosive gas emissions when exposed to fire to facilitate the safe evacuation in case of fire, which is critical when it comes to protecting human life and equipment during a disaster. Each box contains 1000 feet (305 meters) of cable.

Frequency (MHz)	Insertion Loss (dB/100m)		Return Loss (dB/100m)		NEXT (dB) Min.	PS NEXT (dB) Min.	ACR-F (dB) Min.	PS ACR-F (dB) Min.	TCL (dB) Min.	ELTCTL (dB) Min.
	Max.	Min.	Max.	Min.						
1	1.8	29.6	80.8	78.3	77.6	75.8	56.4	44.1		
4	3.7	28.7	72.5	70.0	66.5	65.9	49.7	32.2		
8	5.2	26.1	71.2	75.8	61.3	58.7	49.6	31.9		
10	6.0	26.0	67.4	70.0	59.7	56.7	51.0	31.3		
16	7.5	30.4	69.9	66.8	55.4	52.7	50.9	30.6		
20	8.6	27.9	64.8	65.0	56.8	52.9	53.0	30.2		
25	9.5	28.8	63.4	65.4	51.0	49.9	47.1	29.1		
31.25	10.7	29.9	61.8	62.9	50.2	47.5	49.1	28.7		
62.5	15.3	27.5	57.8	56.8	42.1	40.0	39.9	26.3		
100	19.6	31.3	51.3	54.3	32.7	31.8	35.9	23.5		
160	24.8	23.3	50.2	49.0	28.5	26.7	33.1	20.7		
200	28.2	22.9	48.9	45.8	24.6	23.2	31.6	19.1		
250	31.6	23.4	44.9	42.6	20.6	19.2	30.2	7.4		
300	34.7	20.4	44.4	40.2	16.5	16.4	30.0	7.2		



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Product specifications

Wire characteristics	
Cable type	Unshielded Twisted Pair "U/UTP"
Number of pairs	4
Number of wires	8
Wire type	Solid bare copper
Wire gauge size	23 AWG
Internal characteristics	
Internal jacket material	HDPE (CMI-75E)
Average min. thickness	0.178mm
Min. thickness	0.153mm
Color combinations	
Pair 1	Blue and white / Blue
Pair 2	Orange and white / Orange
Pair 3	Green and white / Green
Pair 4	Brown and white / Brown
External characteristics	
External jacket designation	LSZH
External jacket material	Low Smoke Zero Halogen (LSZH)
Average min. thickness	0.585mm
Min. thickness	0.458mm
Average cable diameter	6.3mm ± 0.3mm
Max. strength	11kg
Available jacket colors	Gray
Electrical characteristics	
Voltage rating	300V
Temperature rating	75°C
Characteristic impedance (Zo)	85-115Ω (1-250 MHz)
Conductive resistance	Max. 7.32Ω/ 100M 20°C
DC resistance capacitance unbalance	5%
Pair-to-ground capacitance unbalance	Max. 330 pF/100m
Mutual capacitance	Max. 5600 pF/100m
Dielectric strength	DC 2.5kV CC/2sec or AC 1.75kV/2sec
Nominal velocity of propagation (NVP)	69%
Meets PoE standards	IEEE802.3af, PoE type 1 (15.4 Watts/100m) IEEE802.3at, PoE type 2 (30 Watts/100m) IEEE802.3bt, PoE type 3 (60 Watts/100m)
Transmission characteristics	
Transmission speed	1,000Mbps / 1 Gbps
Bandwidth	250MHz
Link max. distance	90m
Channel max. distance	100m
Certifications and standards	
International Standards	ANSI/TIA/EIA-568-C.2 and ISO/IEC 11801 Meets IEEE 802.3af and IEEE 802.3at for PoE applications
Miscellaneous	
Color	GRAY
MPN	PCGUCC6LZGR
UPC	798302033351
Labeling	NEXXT U/UTP INSTALL CABLE 23AWG 4PR LSZH 75 °C ETL Verified rated ANSI/TIA 568C.2 CAT.6 XXXXXX-X XXXM www.nexxtsolutions.com
Packaging	Carton box
Cable length	1,000ft/ 305m
Cu.ft.	1.67
Warranty	Limited lifetime. For full warranty details, visit: https://www.nexxtsolutions.com/warranty

