



Our Unshielded Twisted Pair (U/UTP) category 6A cable is designed to support transmission speeds of 10 Gigabits per second while ensuring reliable operation at frequencies of 500MHz 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 wires 23AWG solid bare, according to the production standards, combined with a dielectric polyethylene foam, to ensure maximum strength. An additional benefit of this cable is provided by the low toxicity Halogen known as LSZH Jacket. This material is characterized by low smoke, toxic and corrosive gases when exposed to fire and facilitate the safe evacuation in case of fire, which is critical when it comes to protecting human life and equipment during a disaster. Each wooden reel contains 1000 feet (305 meters) of cable.



PCGUCC6ALZGR
PCGUCC6ALZBL



Frequency (MHz)	Attenuation (dB/100m)	NEXT (dB)	PSNEXT (dB)	ACRF (dB)	PSACRF (dB)	PSAACRF (dB)	PSANEXT (dB)	RL(dB) Solid
1.0	2.1	74.3	72.3	67.8	64.8	67.0	67.0	20.0
4.0	3.8	65.3	63.3	55.8	52.8	66.2	67.0	23.0
8.0	5.3	60.8	58.8	49.7	46.7	60.1	67.0	24.5
10.0	5.9	59.3	57.3	47.8	44.8	58.2	67.0	25.0
16.0	7.5	56.2	54.2	43.7	40.7	54.1	67.0	25.0
20.0	8.4	54.8	52.8	41.8	38.8	52.2	67.0	25.0
25.0	9.6	53.3	51.3	39.8	36.8	50.2	67.0	24.3
31.25	10.5	51.9	49.9	37.9	34.9	48.3	67.0	23.6
62.5	15.0	47.4	45.4	31.9	28.9	42.3	65.6	21.5
100.0	19.1	44.3	42.3	27.8	24.8	38.2	62.5	20.1
200.0	27.6	39.8	37.8	21.8	18.8	30.2	58.0	18.0
250.0	31.1	38.3	36.3	19.8	16.8	30.2	56.5	17.3
300.0	34.3	37.1	35.1	18.3	15.3	28.7	55.3	16.8
400.0	40.1	35.3	33.3	15.8	12.8	26.2	53.5	15.9
500.0	45.3	33.8	31.8	13.8	10.8	24.2	52.0	15.2





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	0.208 mm	
Min. thickness	0.195 mm	
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	
Shield type	Non-shielded	
External characteristics		
External jacket designation	LSZH	
External jacket material	Low Smoke Zero Halogen (LSZH)	
Average min. thickness	0.685 mm	
Min. thickness	0.558 mm	
Average cable diameter	7.8 mm ± 0.3 mm	
Max. strength	11 Kg	
Available jacket colors	Gray, Blue and Red	
Electrical characteristics		
Voltage rating	300V	
Temperature rating	75°C	
Characteristic impedance (Zo)	85-115Ω (1-500 MHz)	
Conductive resistance	Max 7.32Ω / 100M 20°C	
DC resistance capacitance unbalance	2%	
Pair-to-ground capacitance unbalance	Max 330 pF/100m	
Mutual capacitance	Max 5,600 pF/100m	
Dielectric strength	DC 2.5kV/2sec or AC 1.75kV/2sec	
Nominal velocity of propagation (NVP)	68%	
Transmission characteristics		
Transmission speed	10,000 Mbps / 10 Gbps	
Bandwidth	500 MHz	
Link max. distance	90 m	
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		
MPN	PCGUCC6ALZGR	PCGUCC6ALZBL
UPC	798302034327	798302033306
Labeling	NEXXT U/UTP INSTALL CABLE 23AWG 4PR ANSI/TIA 568C.2 CAT6A LSZH XXXXXXXX-X XXXM www.nexxtsolutions.com	
Packaging	Wooden reel	
Cable length	1,000ft / 305m	
Cuft	1.67	
Warranty	Limited lifetime warranty*	