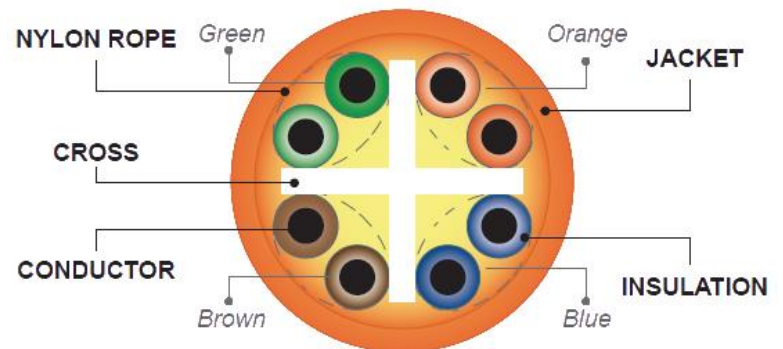




Our Unshielded Twisted Pair (U/UTP) category 6 cable is designed to support transmission speeds of 1 Gigabits per second while ensuring reliable operation at frequencies of 250MHz or higher. Meets all relevant international telecommunications and electrical standards, including ANSI/TIA/EIA 568C.2 and 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.



PCGUCC6LZGR



Frequency	Att.	Pr-Pr	PS	Prop.	Delay	Return	Pr-Pr	PS
MHz	Solid	NEXT	NEXT	Delay ns	Skew ns	Loss	ELFEXT	ELFEXT
1	2.0	74.3	72.3	570	45	20.0	67.8	64.8
10	6.0	59.3	57.3	545	45	25.0	47.8	44.8
20	8.5	54.8	52.8	542	45	25.0	41.8	38.8
31.25	10.7	51.9	49.9	540.4	45	23.6	37.9	34.9
62.5	15.4	47.4	45.4	538.6	45	21.5	31.9	28.9
100	19.8	44.3	42.3	537.6	45	20.1	27.8	24.8
200	29.0	39.8	37.8	536.5	45	18.0	21.8	18.8
250	32.8	38.3	36.3	536.3	45	17.3	19.8	16.8



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	23AWG

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 (1-250MHz)
Conductive resistance	Max 7.3Ω / 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/2sec or AC 1,75kV/2sec
Nominal Velocity of propagation (NVP)	69%

Transmission characteristics

Transmission speed	1,000 Mbps / 1 Gbps
Bandwidth	250 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

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 XXXXXXXX-X XXXM www.nexxtsolutions.com
Packaging	Carton box
Cable length	1,000ft / 305m
Cu.ft	1.67
Warranty	Limited lifetime warranty*