

Cat6 UTP Cable

U/UTP with CMX jacket for outdoor applications



NEB-UTP6OUTBK

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The Nexxt Essential Cat6 UTP Cable is a high-performance, 4-pair 24AWG solid copper cable engineered for reliable outdoor connectivity. Featuring a CMX-rated black jacket, it offers protection against UV rays, moisture, and extreme conditions. This 305-meter (1000ft) cable supports Gigabit Ethernet with speeds up to 1Gbps and 250MHz bandwidth, making it ideal for robust, long-lasting outdoor network installations.

Highlights

- 100% Pure Copper Conductors – Ensures superior conductivity, performance, and durability
- CMX Outdoor-Rated Jacket – The jacket is waterproof and insect resistant.
- Category 6 Performance – Supports high-speed data transmission with reduced crosstalk.
- 24AWG Solid Cable – Provides excellent signal integrity for reliable network connections.
- 305m (1,000ft) Pull Box – Easy-to-deploy packaging for professional installations.



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Product specifications

Wire characteristics	
Cable type	Unshielded Twisted Pair (U/UTP)
Number of pairs	4
Number of wires	8 (2 per pair)
Wire type	Polished solid copper
Wire gauge size	24AWG
Internal characteristics	
Internal jacket material	High Density Polyethylene(HDPE 8303)
Average min. thickness	0.22 mm
Min. thickness	0.22 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
Cross pair separator	Yes
External characteristics	
Flame rating	Complies with EN 61034-2
Outer jacket material	LDPE
Average min. thickness	0.53~0.56 mm
Min. thickness	0.53 mm
Average cable diameter	5.6 mm± 0.2 mm
Installation tension	110N (25 lbf) max
Available jacket colors	Black
Electrical characteristics	
Voltage rating	75V
Temperature	-4 – +167 °F
Characteristic impedance (Zo)	100 ± 15 Ω @ 100 MHz
Conductive resistance	≤ 9.5 Ω / 100 m
Resistance unbalance within a pair	≤ 2%
Pair-to-Ground capacitance unbalance	≤ 160 pF / 100 m @ 800 Hz o 1 kHz
Mutual capacitance	≤ 5600 pF / 100 m
Dielectric strength	1.00KV DC or 0.7 KV AC for 1 min
Nominal Velocity of propagation (NVP)	70%
Meets PoE standards	IEEE802.3af, PoE type 1 (15.4 Watts/100 m) IEEE802.3at, PoE type 2 (30 Watts/100 m) IEEE802.3bt, PoE type 3 (60 Watts/100 m)
Transmission characteristics	
Transmission speed	1,000 Mbps / 1 Gbps Support Base-T Gigabit Speed
Bandwidth	250MHz
Link max. distance	295 ft / 90 m
Channel max. distance	328 ft / 100 m
Certifications and standards	
International standards	ANSI/TIA-568.2-E ISO/IEC 11801 EN 50173 IEC 61156-5 RoHS 3 (EU)2015/863
Miscellaneous	
Color	Black
MPN	NEB-UTP6OUTBK
UPC	798302037472
Packaging	Color Box
Cable length	1000 ft / 305 m
Cubic feet	1.36 ft ³
Warranty	Limited lifetime.*

* For full warranty details, visit: <https://www.nexxtsolutions.com/warranty>



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