NEXXT SOLUTIONS
INFRASTRUCTURE
Professional Series

Cable Cat 6

U/UTP, CM type jacket





AB356NXT31 - Gray



AB356NXT32 - Blue



AB356NXT33 - Red

Related products



AB361NXT*

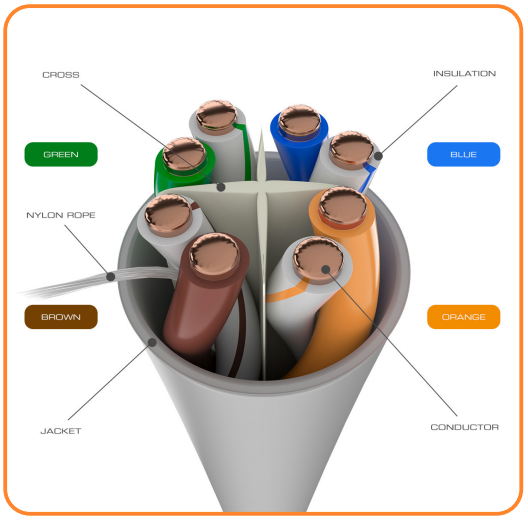


AW120NXT*



AW160NXT**

Our Unshielded Twisted Pair (UTP) category 6 cable is designed to support transmission speeds of 1 gigabit per second while ensuring reliable operation at frequencies of 250MHz or higher. Meets all relevant international telecommunications and electrical standards, including ANSI/TIA/EIA 568.2-D and ISO/IEC 11801. This cable is constructed with four pairs of solid bare 24 AWG wires, according to the production standards, combined with a dielectric polyethylene foam, to ensure maximum strength. An additional benefit of this cable is provided by its flame-resistant-rated jacket, known as CM. This is a Communications Multipurpose Cable that supports ethernet deployments in single-story commercial or industrial buildings. Each carton box contains 1000 feet (305 meters) of cable.



Frequency (MHz)	Insertion loss (dB/100m) Max.	Return Loss (dB/100m) Min.	NEXT (dB) Min.	PS NEXT (dB) Min.	ACR-F (dB) Min.	PS ACR-F (dB) Min.
1	1.7	26.5	83.9	80.9	79.5	76.1
4	3.5	28.4	73	71	66.7	63.7
8	4.9	31	69.6	66.5	59.5	55.9
10	5.5	31.2	69.1	66.5	58.5	55.5
16	7	37.8	67.2	64.7	50.7	47.8
20	7.9	40.1	64.2	61.5	50.3	48.3
25	8.9	39.1	62.5	59.8	46.3	43.2
31.25	9.9	36	62.8	58.3	42.9	40.8
62.5	14.3	32.5	56.3	53.2	40.4	37.6
100	18.2	28.6	54.3	50.7	37.7	34
160	23.3	24.2	48.8	46.2	30.3	28.6
200	26.5	23.1	48.9	45.6	24.9	24.7
250	30	22.1	48.2	44.6	23.2	20.9
300	32.4	21.1	42.2	39.1	20.7	20

www.nexxtsolutions.com

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Cable Cat 6

U/UTP, CM type jacket

Product specifications

	Wire characteristics		
Cable type	UTP “Unshielded Twisted Pair”		
Number of pairs	4		
Number of wires	8		
Wire type	Solid bare copper		
Wire gauge size	24AWG		
	Internal characteristics		
Internal jacket material	High density Polyethylene (HDPE)		
Average min. thickness	0.92mm		
Min. thickness	0.95mm		
Color combinations			
Pair 1	Blue / Blue and white		
Pair 2	Orange / Orange and white		
Pair 3	Green / Green and white		
Pair 4	Brown / Brown and white		
Cross pair separator	Yes		
	External characteristics		
Flame rating	CM		
External jacket material	PVC 75°		
Average min. thickness	0.52mm		
Min. thickness	0.52mm		
Average cable diameter	6.0mm		
Installation tension	25 lbf (110N) max.		
Available jacket colors	Blue, Gray, Red		
	Electrical characteristics		
Voltage rating	70V		
Temperature rating	-20°C - 75°C		
Characteristic impedance (Zo)	110Ω		
Conductive resistance	9.5Ω/100m		
DC resistance capacitance unbalance	≤2% one pair		
Pair-to-ground capacitance unbalance	≤160pF/100m		
Mutual capacitance	5600 pF/100m Max		
Dielectric strength	≥13.5MPa		
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/100)		
	Transmission characteristics		
Transmission speed	1,000Mbps / 1 Gbps Support Base-T Gigabit Speed		
Bandwidth	250MHz		
Link max. distance	90m		
Channel max. distance	100m		
	Certifications and standards		
International standards	ANSI/TIA-568.2-D / ISO/IEC 11801 / EN 50173 / IEC 61156-5		
UL Certificate	UL444, UL1424, E318654		
ETL certificate	ETL Full Channel #CoC 100227874CRT-001f		
	Miscellaneous		
Color	GRAY	BLUE	RED
MPN	AB356NXT31	AB356NXT32	AB356NXT33
UPC	798302036727	798302036765	798302037526
Labeling	NEXXT U/UTP CABLE 24AWG 4PR CM 75 °C (UL) E318654 ETL Verified rated ANSI/TIA/EIA 568.2-D CAT.6 XXXXXXX-X XXXM www.nexxtsolutions.com		
Packaging	Carton pull box		
Cable length	1000ft / 305m		
Cu.ft	2,54		
Warranty	Limited lifetime*		

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

LIFETIME WARRANTY

E318654

CAT 6

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