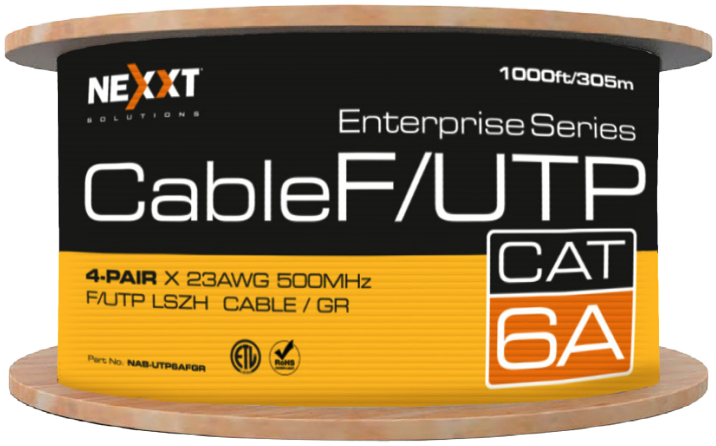
NEXXT SOLUTIONS
INFRASTRUCTURE
Enterprise Series

Cat.6A bulk cable

F/UTP, LSZH-3 type jacket



NAB-UTP6AFGR

Related products



AW160NXT



NAW-KSTO6ASL



NAB-PCS6ABL

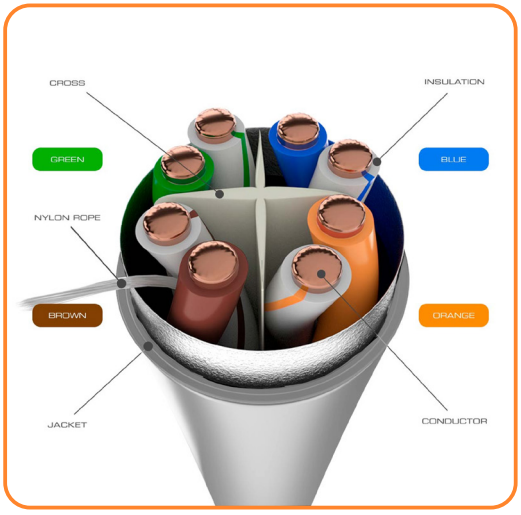


NAW-PNEL6A24

Exceptional interconnection capability for reliable data transmission

Our F/UTP Cat6A cable is designed for 10Gbps data transmission with stable performance at frequencies of up to 500 MHz, complying with ANSI/TIA-568.2-E and ISO/IEC 11801 standards. Manufactured with solid 23 AWG copper conductors, it features Mylar foil shielding and a tinned copper braid for enhanced protection against electromagnetic interference. Its LSZH (Low Smoke Zero Halogen) jacket ensures low emission of smoke and toxic gases in the event of a fire, making it ideal for critical environments. Additionally, it meets the stringent IEC 60332-3-22 (Category A) flame propagation standard, the highest classification for bundled cable fire resistance. Available in 305m (1000 ft) wooden reels, gray color.

Frecuency (MHz)	Return loss Min. dB	Insertion loss Max. dB	NEXT Min. dB	PSNEXT Min. dB	ACRF Min. dB	PSACRF Min. dB	TCL Min. dB
1	20.0	2.1	75.3	72.3	68.8	65.0	50.0
4	23.0	3.8	66.3	63.3	56.8	53.0	44.0
100	20.1	19.1	45.3	42.3	28.0	25.0	30.0
250	17.3	31.1	39.3	36.3	20.0	17.0	26.0
500	17.3	45.3	34.8	31.8	14.0	11.0	N/A



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Product specifications

	Wire characteristics
Cable type	CAT6A F/UTP 23AWG
Number of pairs	4
Number of wires	8
Conductor material	Pure copper (99.95%)
Wire gauge size	23 AWG
	Internal characteristics
Internal jacket material	High-density polyethylene (HDPE)
Average min. thickness	0.3 mm
Min. thickness	0.285 mm
Color combinations	
Pair 1	Blue and white / White
Pair 2	Blue and white / White
Pair 3	Blue and white / White
Pair 4	Blue and white / White
Shield type	F/UTP
Cross pair separator	Yes
	External characteristics
Flame rating	LSZH-3-22 (CAT. A) (Low Smoke Zero Halogen)
Average min. thickness	0.46 mm
Min. thickness	0.52 mm
Average cable diameter	7.4 mm±0.2
Installation tension	25 lbf (100N) máx.
Available jacket colors	Grey and blue
	Electrical Characteristics
Voltage rating	80V
Temperature rating	-20 °C a 75 °C
Characteristic impedance (Zo)	100±5Ω at 100MHz
Conductive resistance	7.32Ω/100m
DC resistance capacitance unbalance	2% within a pair at 20°C
Pair-to-ground capacitance unbalance	160pF/100m
Dielectric strength	1kV d.c./0.7kV a.c. for 1min. or 2.5kV d.c./1.7kV a.c. for 2s
Nominal velocity of propagation (NVP)	67%
PoE standard compliance	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) IEEE802.3bt, PoE type 4 (100 Watts/100m)
	Transmission characteristics
Transmission speed	10.000 Mbps / 10 Gbps
Bandwidth	1-500MHz
Link max. distance	≤100 m
	Certifications and standards
International standards	ANSI/TIA-568.2-E, ISO/IEC 11801-1 and IEC 60332-3-22 (Category A)
	Miscellaneous
Color	Grey
MPN	NAB-UTP6AGR
UPC	798302037335
Labeling	NEXXT CAT6A F/UTP 23AWG LSZH IEC60332-3-22 (A) ANSI/TIA 568.2-E and ISO/IEC 11801 (ETL VERIFIED) WWW.NEXXTSOLUTIONS.COM 001M-305M
Packaging	Wooden reel
Cable length	1,000 ft / 305 m
Cu.ft.	1.67
Warranty	Limited lifetime. **For full warranty details, visit: https://www.nexxtsolutions.com/warranty**

LIFETIME WARRANTY

CAT 6A

ETL VERIFIED

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