

6ft CAT6a Ethernet Cable - Black - Low Smoke Zero Halogen (LSZH) - 10GbE 500MHz 100W PoE++ Snagless RJ-45 w/Strain Reliefs S/FTP Network Patch Cord

Product ID: NLBK-6F-CAT6A-PATCH



Set up a reliable 10 Gbps connection to a switch or networking device, using this Shielded Snagless S/FTP Category 6a Ethernet Cable.

Our Snagless Cat6a Cables are designed for long-lasting performance. The 4-Pair Shielded and Foiled Twisted Pair (S/FTP) construction utilizes 27AWG pure bare copper wire for improved conductivity and low resistance, ensuring reliable transmission and minimal signal loss.

Pure bare copper wiring offers consistent performance characteristics across different environments. Each pair is shielded in aluminum-mylar foil and tinned copper braid for enhanced EMI protection.

The Cat6a Ethernet Cable features snagless 50-micro gold-plated connectors that enable a precise fit to minimize wear and signal loss. The flexible Low Smoke Zero Halogen (LSZH) flame-retardant jacket emits low smoke and toxic fumes when exposed to extreme heat or in the event of a fire. This enables safer installations in poorly-ventilated areas including some industrial settings, self-contained environments such as trains and aircraft, as well as residential settings where compliance with building codes must be considered.

The Shielded Cat6a Patch Cord is ideal for 10GBASE-T networks and supports up to 100W output to Power over Ethernet (PoE++) devices. Establish connectivity to 10G switches, Network Attached Storage (NAS), and SFP modules. It facilitates reliable throughput and power to low-latency and critical PoE devices, including PoE switches, access points, and IP cameras.

Backward compatibility with Cat 6 and Cat 5/5e standards ensure seamless integration into existing network environments. Each cable is individually tested using a Fluke DSX2-8000 CableAnalyzer and ETL Verified for guaranteed Cat6a performance.

Our Cat6a Ethernet Cables are ETL Verified to meet ANSI/TIA-568.2-D standards, ensuring peak performance for high-speed 10G applications. Independent testing confirms compliance with strict insertion loss, return loss, and crosstalk limits, maintaining stable signal transmission over longer runs. The STP shielding is verified for EMI resistance, for guaranteed reliability in demanding environments.

Certifications, Reports and Compatibility



Applications

Features

- CAT6A ETHERNET CABLE: High-performance Ethernet Cable for error-free 1/2.5/5/10Gbps multi-gigabit connections; Low Near-End Crosstalk (NEXT) and Return Loss (RL); Individually Tested; ETL Verified to meet ANSI/TIA-568.2-D standards
- SHIELDED CAT6A CABLE: Improved signal integrity and protection against noise & electromagnetic (EMI/RFI) interference; Individual twisted pairs wrapped in foil; Outer covering w/ braided shield; Shielded RJ45 connectors with gold-plated pins
- 100W POWER OVER ETHERNET: 100% stranded copper wire delivers error-free data and stable PoE power, unlike lower quality copper-clad aluminum versions of other brands; Supports PoE devices up to 100W PoE++; Complies with IEEE 802.3bt (Type 4 and lower)
- DURABLE LSZH JACKET: PVC Free, Low Smoke Zero Halogen (LSZH) cable jacket produces less dense and corrosive smoke than PVC; Braided construction resists damage from bending
- SPECS: Category 6A Network Patch Cord; 6ft; Black; 10Gbps; 500 MHz; 4 Pair S/FTP; Snagless RJ45 with Strain Reliefs; EVA, Al(OH)3; LSZH; 27 AWG; 100% Copper; ETL Verified; ANSI/TIA-568.2-D; Supports Cat6 and earlier standards; Backed for Life

Hardware

Warranty	Lifetime
Number of Conductors	4 Pair S/FTP
Cable Jacket Material	Low Smoke Zero Halogen

Performance

ETL Verified	Yes
Cable Rating	CAT6a - 10Gbit/s

Connector(s)

Connector A	1 - RJ-45
Connector B	1 - RJ-45

Environmental

Operating Temperature	0C to 50C (32F to 122F)
Storage Temperature	-20C to 60C (-4F to 140F)
Humidity	0% ~ 85% RH

Physical Characteristics

Color	Black
Wire Gauge	27 AWG (0.361 mm)
Conductor Type	Stranded Copper
Cable Length	6.0 ft [1.8 m]
Cable OD	0.2 in [5.7 mm]
Product Length	6.0 ft [1.8 m]
Product Width	0.5 in [1.2 cm]
Product Height	0.6 in [1.4 cm]
Weight of Product	2.8 oz [78.0 g]

Packaging Information

Package Quantity	1
Package Length	6.9 in [17.6 cm]
Package Width	7.8 in [19.7 cm]
Package Height	0.7 in [1.9 cm]
Shipping (Package) Weight	3.0 oz [86.0 g]

What's in the Box

Included in Package	1 - CAT6A LSZH Ethernet Cable
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Warranty Information

Warranty	Lifetime
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**Product appearance and specifications are subject to change without notice.*

