3ft 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-3F-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.

Certifications, Reports and Compatibility

Applications

Features

• CAT6A ETHERNET CABLE: Shielded Snagless Cat6A cable is optimized for 10Gbps networks; Up to 500MHz range enhances signal reliability; Low Near-End Crosstalk (NEXT) and Return Loss (RL); Supports Power over Ethernet (PoE++) devices up to 100W

• QUALITY CONSTRUCTION: Shielded 50-micron gold-plated connectors ensure a precise fit to reduce wear; 27AWG pure bare copper wire enables consistent performance characteristics; Al-mylar foil w/braided shield for enhanced EMI protection

• SAFETY AND RELIABILITY: Individually Tested to meet ANSI/TIA-568.2-D standards for guaranteed Cat6A performance; Low Smoke Zero Halogen (LSZH) jacket is safe for enclosed/poorly ventilated spaces and emits low toxic fumes if combusted

• APPLICATIONS: Ideal for 10GBASE-T network deployments and switches; Connect reliably to PoE devices such as IP cameras and Access Points; PoE++ specifications complies with IEEE 802.3bt Type 4; Flexible LSZH jacket can be routed through tight spaces

• THE IT PRO'S CHOICE: Designed for reliability in edge and on-prem deployments, our network cables are lab-tested and field-proven for seamless integration and maximum uptime; Backed by free lifetime 24/5 multi-lingual technical assistance

General		
	UPC	065030896542
	Package Quantity	1
	Warranty	Lifetime
Power		
	Power Delivery	100W
Physical & Environmental		
	Color	Black
	Wire Gauge	27 AWG (0.361 mm)
	Conductor Type	Stranded Copper
	Cable Length	36.0 in [91.4 cm]

	Cable OD	0.2 in [5.7 mm]
	Product Length	36.0 in [91.4 cm]
	Product Width	0.5 in [11.6 mm]
	Product Height	0.5 in [13.8 mm]
	Weight of Product	1.5 oz [42 g]
	Operating Temperature	0C to 50C (32F to 122F)
	Storage Temperature	-20C to 60C (-4F to 140F)
	Humidity	0% ~ 85% RH
Performance		
	Maximum Data Transfer Rate	10 Gbps
	Cable Rating	CAT6a - 500 MHz
	ETL Verified	Yes
Hardware		
	Cable Structure	Shielded with Foiled Twisted Pairs (S/FTP)
	Cable Shield Overlap	Aluminium-Mylar Foil
	Pair Shield Structure	Aluminium-Mylar Foil
	Number of Conductors	4 Pair S/FTP
	Connector Plating	Gold
	Cable Jacket Material	LSZH (Low Smoke Zero Halogen)
	Cable Shield Material	Aluminum-Mylar Foil with Braid
	Cable Type	Shielded Snag-less
	Wiring Standard	TIA/EIA-T568B
Packaging & In-the-Box		
	Included in Package	1 - Cat6a LSZH Ethernet Cable
	Package Width	6.7 in [17 cm]

	Package Depth	7.7 in [19.6 cm]
	Package Height	0.7 in [17 mm]
	Shipping (Package) Weight	1.8 oz [52 g]

Connector(s)		
	Connector 1 (Quantity)	1
	Connector 1	RJ-45
	Connector 2 (Quantity)	1
	Connector 2	RJ-45

Product appearance and specifications are subject to change without notice.