

CAT8 NETWORK CABLE

NETCON S/FTP Cable 4 pairs, Cat.8, 22 AWG, Indoor, LSZH, Yellow, 500m

APPLICATION & FEATURES

Netcon's CAT 8 S/FTP LSZH Ethernet Cable is a high-performance, fully shielded data cable designed for ultra-high-speed 25/40 Gigabit Ethernet applications, making it ideal for data centers, commercial buildings, and enterprise networks. Featuring individually shielded twisted pairs with an overall braided shield (S/FTP), it provides exceptional protection against electromagnetic interference (EMI) and alien crosstalk, ensuring superior signal integrity and consistent, reliable performance even at higher frequencies.

High-Speed Performance and Construction

Manufactured with AWG22 solid copper conductors and individually shielded twisted pairs with an overall braided shield (S/FTP), the Cat8 S/FTP LSZH cable delivers exceptional NEXT, AXT (alien crosstalk), and return loss performance, even at very high frequencies. The advanced multi-layer shielding design provides superior protection against electromagnetic interference (EMI), ensuring stable, ultra-high-speed, and interference-free connectivity for data-intensive applications such as cloud computing, high-speed data centers, and 25/40 Gigabit Ethernet environments. Designed to support frequencies up to 2000 MHz (2 GHz), it significantly exceeds the performance capabilities of Cat6A and Cat7 systems.

Fire Safety and Compliance

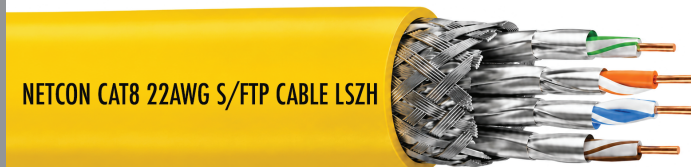
The LSZH (Low Smoke Zero Halogen) outer sheath minimizes smoke emission and eliminates toxic halogen gases in the event of fire, ensuring enhanced safety in offices, hospitals, schools, airports, and public buildings.

This cable complies with international standards such as ISO/IEC 11801 Class I/II, ANSI/TIA-568.2-D (Cat8), IEC 61156-9/10, and IEC 60332-1.

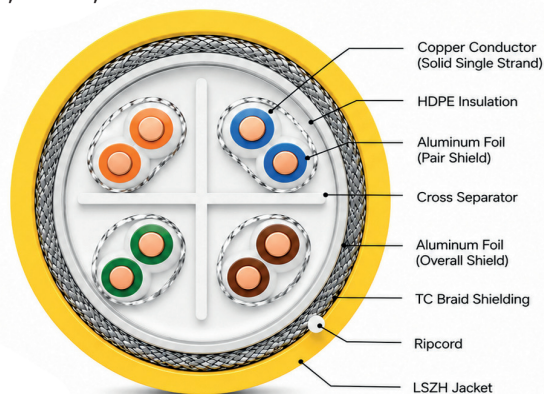
Applications and Installation

Designed primarily for high-speed data center environments, the Cat8 S/FTP LSZH cable is ideal for switch-to-server connections, top-of-rack (ToR) and end-of-row (EoR) architectures, and high-performance computing networks where maximum throughput and minimal latency are critical.

The cable supports 25 Gbps and 40 Gbps data transmission up to 30 meters (channel length), ensuring ultra-high bandwidth, superior signal integrity, minimal interference, and future-ready performance for next-generation network infrastructure.



22 AWG, Indoor, LSZH. S/FTP Cable 4 Pairs. CAT8



CORE IDENTIFICATION

Pair 1:	Orange	Orange
Pair 2:	Blue	Blue
Pair 3:	Green	Green
Pair 4:	Brown	Brown

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SPECIFICATIONS

Part Number	NTC8SF22L
Category	8
Bandwidth, Mhz	2000 Mhz
Type	S/FTP
Number of pairs	4
Material of conductors	Copper
Type of conductors	Solid
Diameter of conductors, AWG	22 AWG (0.63 ± 0.005 mm)
Insulation material	Foamed polyethylene (PE Foam)
Insulation conductor thickness, mm	0.43 ± 0.02 mm
Diameter of conductor insulation, mm	1.65 ± 0.05 mm
Outer jacket material	LSZH-compound
Execution	ng (A)-HFLTx
Application	For Indoor installation
Jacket thickness, mm	0.75 ± 0.05 mm
Outer jacket diameter, mm	8.4 ± 0.2 mm
Jacket color	Yellow
Individual screen design	100% coverage of Polyester aluminum foil
Screen construction (common screen)	Braid made of tinned copper wire with a coating area of at least > 30%
Protective film	-
Ripcord	-
Mass density (kg) per unit length (km)	58.2 ± 0.5 kg/km
Radius of bending during laying	At least 8 cable diameters
Radius of bending during operation	At least 4 cable diameters
Maximum tensile strength	Not more than 100 N
Characteristic impedance, ohms	100 ± 15Ω
Nominal velocity of propagation (NVP)	0.78 ± 0.1
Max. Conductor resistance(DC), ohms/km	≤ 93.8 Ω/km
Length	500 m
Compliance	Exceeds the requirements of the standards: ISO / IEC 11801, EN 50173 and ANSI / TIA -568-C.2
Supported applications	10BASE-T, 25GBASE-T, 40GBASE-T 100BASE-TX, 100BASE-T4, 1000BASE-T, 10GBASE-T, ATM-25, ATM-51, ATM-155, 100VG-AnyLan, TR-4, TR-16 Active, TR-16 Passive
Temperature ranges	Storage from -20 to +60 ° C. Installation from 0 to +50 ° C. Operation from -20 to +60 ° C
Individual packing	Wooden Drum
Warranty	25 years Performance warranty

ORDERING INFORMATION

Part No.	Description
NTC8SF22L	Cat8 Cabling Solution, Cat8 S/FTP LSZH Ethernet Cable