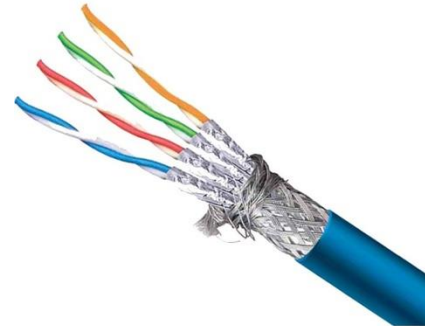


Introduction

As infrastructures become denser and more complex, the value of structured cabling is magnified. Structured cabling makes it easier for the network to grow and change, using a modular design that supports new equipment and applications. The variety of infrastructure cables and accessories are based on Cat8; however, structured cabling is more than just that. It's a comprehensive system of cables and related hardware that provides a flexible, future-ready infrastructure for data communications. Category 8 is an Ethernet cable standard that is often called Cat8. The standard supports the transmission of large amounts of data at high speeds of up to 2000MHz. This augmented rating is twice that of regular Cat8 cable. Cat8 cables are comprised of pairs of twisted copper wire. The Category 8 technology supports ten gigabit Ethernet and has improved alien crosstalk specifications over its predecessor.



Application

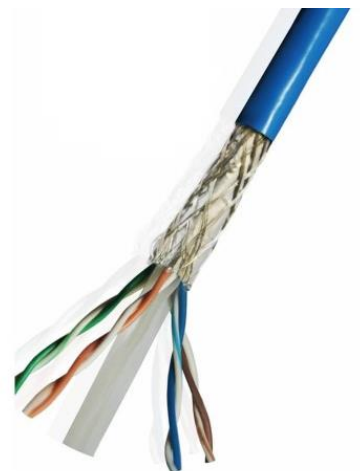
Businesses use Ethernet cabling in office buildings, data centers and users, primary considerations determine ethernet cable to use for your business. Ethernet cables can be classified into different types according to different specifications, shielded cables in terms of shielding types, and solid copper and stranded copper cable in terms of the copper conductor in pairs. With regards to cable jacket rating, there are CM, CMR, and CMP cables. Choices of cables vary from different application scenarios.

- Ethernet Networking
- Computer Networking Project
- Audio & Data Transmission
- Digital Networking
- Broadband Networking Communication

Operation Features

The Category 8 Shielded Foiled SF/UTP has 0.57mm diameter solid copper conductors, twisted into 4 pairs of wires. We offer a depot of various high-quality, high-speed options for solid-conductor, Cat8 SF/UTP cables used in many backbones cabling solutions.

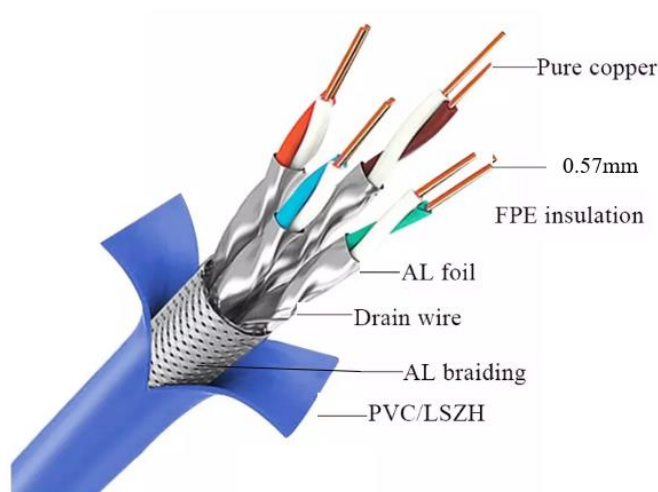
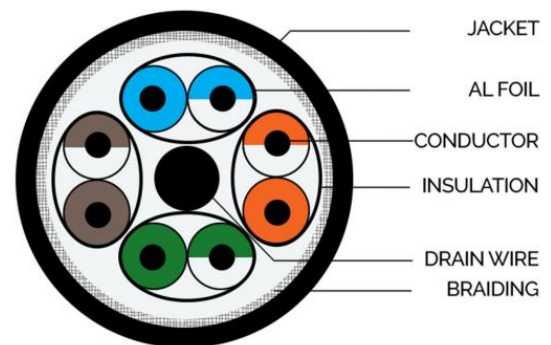
- SF/UTP CAT8 ethernet cable SF/UTP cat8 4 pairs Shielded Foiled copper twist wire
- Standards UL444/CSA-C22.2 No 214, Type CM EIA/TIA-568A and EIA/TIA-568B.2, Horizontal cable, also available in CMR "Riser Rated" and CMP "Plenum Rated"



- Conductor 23AWG solid soft circle twisted bare copper wire
- Jacket PVC or LSZH
- Application 100BASE-T Ethernet IEEE802.3, 1000BASE-T Ethernet IEEE802.3, 10GBASE-T Ethernet IEEE802.3, 25GBASE-T Ethernet IEEE802.3, 155 Mbit ATM and 1.2Gbit ATM
- Rating Temperature: 60°C
- 100% component test to guarantee the quality
- Installations with Lanwave's cable and connectivity are qualified for a 25 years full system technology warranty
- Standard length of cable is 305 meters (1000ft)

Mechanical Performance Test compliance

- Standards Specifications:
 - ✓ Tested to 2000 MHz and with guaranteed performance to 2000 MHz
 - ✓ TIA/EIA-568-C.2, TIA/EIA-568.2-D
 - ✓ ISO/IEC 11801 Class FA, Class I/II channel compliancy, IEC 611565
 - ✓ EN50173-1:2011, EN 50288
 - ✓ UL Listed and
 - ✓ RoHS
- Types: CM, CMR or CMP
- Bandwidth: Standard 2000 MHz
- Conductor Diameter: 0.57 ± 0.02
- Outer Cable Diameter: $8.0\text{mm} \pm 0.2\text{ mm}$
- Conductors: Solid Bare Copper
- Outer Jacket: PVC or LSZH
- Standard Color of Sheath: Blue RAL 5015, other colors are available.



Electrical Performance

FREQ in MHz	IL in dB/100m		RL in dB		NEXT in dB		ACRF in dB		TCL in dB		Prop.Delay in ns/100m		PSANEXT in dB		PSAACRF in dB	
	Std. Req.	Max	Std. Req.	Min	Std. Req.	Min	Std. Req.	Min	Std. Req.	Min	Std. Req.	Min	Std. Req.	Min	Std. Req.	Min
1	2.1	2.1	20.0	20.0	75.0	75.0	75.0	75.0	50.0	45.0	570	483	80.0	80.0	80.0	80.0
4	3.7	3.7	23.0	23.0	75.0	75.0	75.0	75.0	41.0	39.0	552	468	80.0	80.0	80.0	80.0
10	5.8	5.8	25.0	25.0	75.0	75.0	75.0	75.0	35.0	35.0	545	470	80.0	80.0	80.0	80.0
16	7.3	7.3	25.0	25.0	75.0	75.0	75.0	75.0	31.9	33.0	543	468	80.0	80.0	78.1	80.0
20	8.2	8.2	25.0	25.0	75.0	75.0	74.3	75.0	30.5	32.0	542	467	80.0	80.0	76.2	80.0
30	10.1	10.0	25.0	25.0	75.0	75.0	70.8	75.0	27.8	30.2	541	466	80.0	80.0	72.7	80.0
62	14.6	14.4	23.6	23.6	75.0	75.0	64.4	74.4	23.1	27.0	539	464	80.0	80.0	66.3	76.3
100	18.5	18.3	22.2	22.2	75.0	75.0	60.3	70.3	20.0	25.0	538	463	80.0	80.0	62.2	72.2
200	26.5	26.1	20.1	20.1	70.9	73.9	54.3	64.3	15.5	22.0	537	462	80.0	80.0	56.2	66.2
300	32.7	32.1	18.9	18.9	68.2	71.2	50.8	60.8	12.8	20.2	536	462	80.0	80.0	52.7	62.7
400	38.0	37.2	18.0	18.0	66.4	69.4	48.3	58.3	11.0	19.0	536	462	78.5	80.0	50.2	60.2
600	47.1	45.9	16.8	16.8	63.7	66.7	44.7	54.7	8.3	17.2	535	461	75.8	80.0	46.6	56.6
1000	61.9	59.9	15.2	15.2	60.4	63.4	40.3	50.3	7.0	15.0	535	461	72.5	80.0	42.2	52.2
1200	68.4	66.0	14.7	14.7	59.2	62.2	38.7	48.7	7.0	14.2	535	461	71.3	80.0	40.6	50.6
1500	77.2	74.2	14.0	14.0	57.8	60.8	36.8	46.8	7.0	13.2	535	461	69.9	79.9	38.7	48.7
1600	80.0	76.8	13.8	13.8	57.3	60.3	36.2	46.2	7.0	13.0	535	461	69.4	79.4	38.1	48.1
1800	85.4	81.8	13.4	13.4	56.6	59.6	35.2	45.2	7.0	12.4	535	461	68.7	78.7	37.1	47.1
2000	90.5	86.5	13.1	13.1	55.9	58.9	34.3	44.3	7.0	12.0	535	461	68.0	78.0	36.2	46.2

Ordering Information

Product Code	Description
LN-SFUC8x-4P-AWG23-xx	Category 8 Shielded Foiled SF/UTP Cable 4 Pair, 23 AWG

*** Note:**

x= For the Cable Jacket Types such as "L for LSZH, P for PVC"
 xx= For the Cable Jacket Color such as "BL for Blue, GY for Gray, WH for White"

Notice: The data in this document are only reference and will be changed without any notice.
 This specification is intended as a guide only.