

LONGTRONIC® Ethernet Category 5e

P/N: ZL5202022

Revision: A/04

SF/UTP 4x2x26AWG/7 LSZH

Date: 2024-06-12

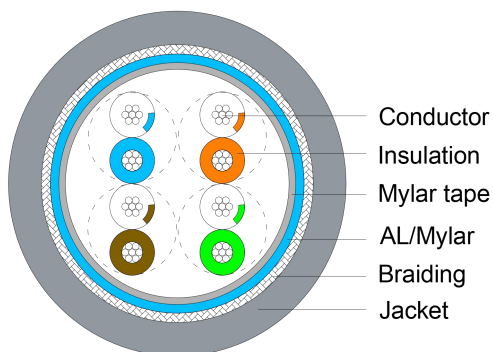
Description

This is a cable with 100 Ω characteristic impedance for data transmission.

Double screened design supported excellent EMC performance.

26AWG/7 stranded BC conductor, HDPE insulation, Mylar tape, AL/Mylar and Tinned copper braiding overall screen, LSZH jacket.

Design



Conductor	7*0.160mm stranded bare copper wire		
Insulation	HDPE		
	OD: 0.87 $\pm$ 0.05 mm		
	Color	Pair 1: White/blue, Blue	Pair 2: White/orange, Orange
		Pair 3: White/green, Green	Pair 4: White/brown, Brown
Tape	Mylar tape		
Overall screen	AL/Mylar		
	Tinned copper braiding, coverage $\geq$ 85 %		
Jacket	LSZH		
	Color: Gray (Similar to RAL7001)		
	OD: 6.00 $\pm$ 0.30 mm		
Marking	ZHAOLONG □ LONGTRONIC® □ ETHERNET □ CAT5E □ SF/UTP □ 4x2x26AWG/7 □		
	LSZH □ IEC □ 60332-1-2 □ □ □ XXXXXX □ ****m		

Note:

1. □ means blank;
2. XXXXXX means batch number;
3. ****m means meter

Electrical Characteristics(20℃)

Conductor resistance	≤ 145 Ω/km
Resistance unbalance	≤ 2.0 % within a pair ≤ 5.0 % between pairs
Dielectric strength	DC 1.0 kV for 1 min.
Insulation resistance	≥ 5000 MΩ·km
Capacitance unbalance	≤ 1600 pF/km at 800 Hz or 1000 Hz
Transfer impedance	Grade 1 (IEC 61156-5)
Coupling attenuation	Type Ib (IEC 61156-5)

Transmission characteristics (20℃)

Reference standard	ANSI/TIA-568.2-D
Delay skew	≤ 25 ns/100m

Frequency (MHz)	Attenuation dB/100m Max.	RL dB Min.	NEXT dB Min.	PS NEXT dB Min.	ACR-F dB Min.	PS ACR-F dB Min.
1	2.1	19.0	60.0	57.0	58.6	55.6
4	3.9	19.0	54.8	51.8	46.6	43.6
8	5.5	19.0	50.0	47.0	40.6	37.5
10	6.2	19.0	48.5	45.5	38.6	35.6
16	7.9	19.0	45.2	42.2	34.5	31.5
20	8.9	19.0	43.7	40.7	32.8	29.6
25	10.0	18.0	42.1	39.1	30.7	27.7
31.25	11.2	17.1	40.5	37.5	28.7	25.7
62.5	16.2	14.1	35.7	32.7	22.7	19.7
100	21.0	12.0	32.3	29.3	18.6	15.6

NOTE: 60m extreme length for category 5e permanent link test.

Other Characteristics

Operating temperature	Fixed: -40 ~ +80 ℃
Installation temperature	-20 ~ +60 ℃
Min bending radius	Fixed: 5× OD Occasional Moving: 10× OD
Rated Voltage	30 V
Halogen free	IEC 60754-1 ; IEC 60754-2
Flame resistance	IEC 60332-1-2
This cable meets RoHS requirements.	

Packing information

Packaging	500 m / drum
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