

LONGTRONIC® ETHERNET Category 7A

S/FTP 4x2x23AWG/1 LSZH

P/N: ZL5206005

Version: A/04

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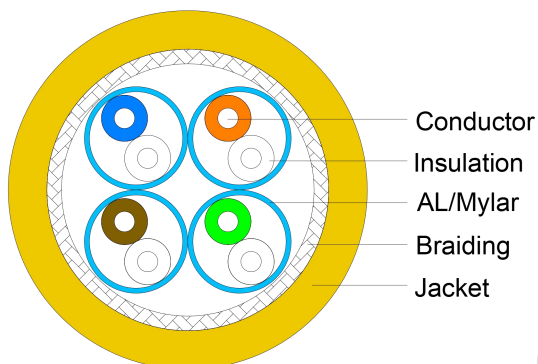
Description

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

Double screened design supported excellent EMC performance.

23AWG/1 BC conductor, Foam PE insulation, AL/Mylar individual screen, Tinned copper braiding overall screen, LSZH jacket.

Design



Conductor 0.580mm solid bare copper wire

Insulation Foam PE

OD: 1.38 ± 0.05 mm

Color: Pair1: White,Blue

Pair2: White,Orange

Pair3: White,Green

Pair4: White,Brown

Individual screen AL/Mylar

Overall screen Tinned copper braiding, coverage $\geq 85\%$

Jacket LSZH

Color: Yellow(Similar to RAL 1021)

OD: 8.30 ± 0.40 mm

Marking ZHAOLONG □ LONGTRONIC® □ ETHERNET □ CAT7A □ S/FTP □ 4PR □ 23AWG

LSZH □ IEC □ 60332-1-2 □ XXXXXX □ ****m

Note:

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

Electrical Characteristics(20℃)

Conductor DC resistance	$\leq 93.8 \Omega/\text{km}$
Resistance unbalance	$\leq 2.0 \%$ within a pair $\leq 5.0 \%$ between pairs
Dielectric strength	DC 1.0 kV for 1 min.
Insulation resistance	$\geq 5000 \text{ M}\Omega \cdot \text{km}$
Capacitance unbalance	$\leq 1600 \text{ pF/km}$ at 800 Hz or 1000 Hz

Transmission characteristics (20℃)

Reference standard IEC 61156-5

Frequency	ATT	RL	NEXT	PSNEXT	ACRF	PS ACRF
MHz	dB	dB	dB	dB	dB	dB
	Max.	Min.	Min.	Min.	Min.	Min.
4	3.7	23.0	78.0	75.0	78.0	75.0
8	5.2	24.5	78.0	75.0	77.2	74.2
10	5.8	25.0	78.0	75.0	75.3	72.3
16	7.3	25.0	78.0	75.0	71.2	68.2
20	8.2	25.0	78.0	75.0	69.3	66.3
25	9.2	24.3	78.0	75.0	67.3	64.3
31.25	10.3	23.6	78.0	75.0	65.4	62.4
62.5	14.6	21.5	78.0	75.0	59.4	56.4
100	18.5	20.1	75.4	72.4	55.3	52.3
200	26.5	18.0	70.9	67.9	49.3	46.3
250	29.7	17.3	69.4	66.4	47.3	44.3
300	32.7	17.3	68.2	65.2	45.8	42.8
500	42.8	17.3	64.9	61.9	41.3	38.3
600	47.1	17.3	63.7	60.7	39.7	36.7
800	54.9	16.1	61.9	58.9	37.2	34.2
1000	61.9	15.1	60.4	57.4	35.3	32.3

Other Characteristics

Operating temperature	Fixed: $-40 \sim +80 \text{ }^{\circ}\text{C}$
Installation temperature	$-20 \sim +60 \text{ }^{\circ}\text{C}$
Min bending radius	Fixed: $8 \times \text{OD}$
Flame resistance	IEC 60332-1-2
This cable meets RoHS requirements	

Packing information

Packaging	500m / drum;
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Prepared by: Yunkang Shen	Checked by: Binbin Li	Approved by: Binbin Li
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