

LONGTRONIC® Ethernet Category 6A S/FTP 4x2x23AWG/1 PVC

P/N: ZL5204057

Revision: A/05

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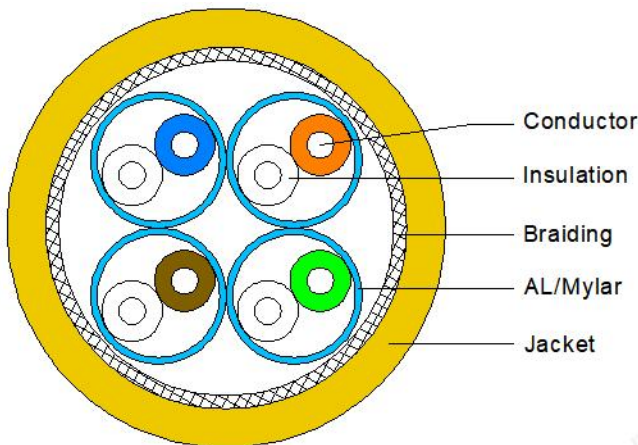
Description

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

Double screened design supported excellent EMC performance.

23AWG BC conductor, Foamed PE insulation, AL/Mylar individual screen, Tinned copper braiding overall screen, PVC jacket.

Design



Conductor	0.560mm solid bare copper wire
Insulation	Foamed PE
	OD: 1.34 $\pm$ 0.05mm
	Color: Pair 1: White, Blue
	Pair 2: White, Orange
	Pair 3: White, Green
	Pair 4: White, Brown

Individual screen	AL/Mylar
Overall screen	Tinned copper braiding, coverage $\geq$ 85%
Jacket	PVC

	Color: Yellow (Similar to RAL1021)
	OD: 8.20 $\pm$ 0.40 mm
Marking	ZHAOLONG □ LONGTRONIC® □ ETHERNET □ CAT6A □ S/FTP □ 4×2×23AWG/1 □
	PVC □ IEC □ 60332-1-2 □ XXXXXX □ ****m

Note:

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

Electrical Characteristics(20℃)

Conductor resistance	$\leq$ 93.8 Ω /km
Resistance unbalance	$\leq$ 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	IEC 61156-5
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	20.0	75.0	72.3	68.0	65.0
4	3.8	23.0	66.3	63.3	56.0	53.0
8	5.3	24.5	61.8	58.8	49.9	46.9
10	5.9	25.0	60.3	57.3	48.0	45.0
16	7.5	25.0	57.2	54.2	43.9	40.9
20	8.4	25.0	55.8	52.8	42.0	39.0
25	9.4	24.3	54.3	51.3	40.0	37.0
31.25	10.5	23.6	52.9	49.9	38.1	35.1
62.5	15.0	21.5	48.4	45.4	32.1	29.1
100	19.1	20.1	45.3	42.3	28.0	25.0
200	27.6	18.0	40.8	37.8	22.0	19.0
250	31.1	17.3	39.3	36.3	20.0	17.0
300	34.3	17.3	38.1	35.1	18.5	15.5
400	40.1	17.3	36.3	33.3	16.0	13.0
500	45.3	17.3	34.8	31.8	14.0	11.0

Other Characteristics

Operating temperature	Fixed: -40 ~ +80 ℃
Installation temperature	-20 ~ +60 ℃
Min bending radius	Fixed: 8× OD
Rated Voltage	30 V
Oil resistance	IRM 902, 70℃× 4h (EN 50290-2-22)
Flame resistance	IEC 60332-1-2
This cable meets RoHS requirements.	

Packing information

Packaging	500 m / drum
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