

LONGTRONIC® Ethernet Category 7 S/FTP 4x2x26AWG/7 PUR

P/N: ZL5205021

Revision: A/04

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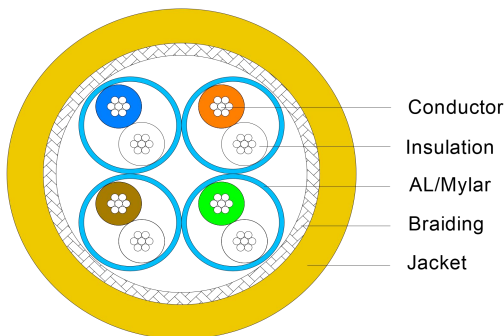
Description

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

Double screened design supported excellent EMC performance.

26AWG/7 stranded BC conductor, Foam-PE insulation, AL/Mylar individual screen, tinned copper braiding overall screen, PUR jacket.

Design



Conductor 7*0.16mm stranded bare copper wire

Insulation Foam-PE

OD: 1.02 $\pm$ 0.05 mm

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 PUR

Color: Yellow (Similar to RAL1021)

Thickness: Approx 0.65 mm

OD: 6.50 $\pm$ 0.30 mm

Marking ZHAOLONG □ LONGTRONIC® □ ETHERNET □ CAT7 □ S/FTP □ 4x2x26AWG/7 □ PUR

□ □ □ □ E324007 □  □ AWM □ 20963 □ 80 °C □ 30V □ FT2 □ □ □ □ 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	IEC 61156-6
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.
4	5.6	23.0	78.0	75.0	78.0	75.0
8	7.9	24.5	78.0	75.0	75.9	72.9
10	8.8	25.0	78.0	75.0	74.0	71.0
16	11.1	25.0	78.0	75.0	69.9	66.9
20	12.4	25.0	78.0	75.0	68.0	65.0
25	13.9	24.2	78.0	75.0	66.0	63.0
31.25	15.6	23.3	78.0	75.0	64.1	61.1
62.5	22.3	20.7	75.5	72.5	58.1	55.1
100	28.5	19.0	72.4	69.4	54.0	51.0
200	41.2	16.4	67.9	64.9	48.0	45.0
250	46.5	15.6	66.4	63.4	46.0	43.0
300	51.3	15.6	65.2	62.2	44.5	41.5
400	60.0	15.6	63.4	60.4	42.0	39.0
500	67.9	15.6	61.9	58.9	40.0	37.0
600	75.1	15.6	60.7	57.7	38.4	35.4

Other Characteristics

Operating temperature	Fixed: -40 ~ +80 ℃
Installation temperature	-20 ~ +60 ℃
Min bending radius	Fixed: 5× OD
Rated Voltage	30 V
Halogen free	IEC 60754-1
Oil resistance	IRM 902, 100℃ × 96h (UL 758)
Flame resistance	IEC 60332-1-2
This cable meets RoHS requirements.	

Packing information

Packaging

500 m / drum

Prepared by: Cunliang Wang	Checked by: Binbin Li	Approved by: Bin You
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