

LONGTRONIC® Ethernet Category 5e

SF/UTP 4x2x24AWG/1 PVC

P/N: ZL5202136

Revision: A/02

Date: 2022-06-13

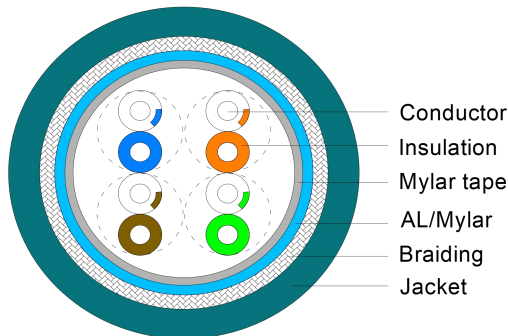
Description

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

Double screened design supported excellent EMC performance.

24AWG solid BC conductor, HDPE insulation, Mylar tape, AL/Mylar + Tinned copper braiding overall screen, PVC jacket.

Design



Conductor 0.510 mm solid bare copper wire

Insulation HDPE

OD: 1.04 $\pm$ 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 PVC

Color: Blue(Similar to RAL5021)

Thickness: Approx 0.70 mm

OD: 6.60 $\pm$ 0.30 mm

Marking

ZHAOLONG □ LONGTRONIC® □ ETHERNET □ CAT5E □ SF/UTP □ 4×2×24AWG/1 □

PVC □ □ □ E324007 □  □ AWM □ 20276 □ 80℃ □ 30V □ VW-1 □ □ □ XXXXXX

□ ****m

Note:

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

Electrical Characteristics(20℃)

Conductor resistance	≤ 93.8 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 61156-5
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	65.3	62.3	64.0	61.0
4	4.1	23.0	56.3	53.3	52.0	49.0
8	5.8	24.5	51.8	48.8	45.9	42.9
10	6.5	25.0	50.3	47.3	44.0	41.0
16	8.2	25.0	47.2	44.4	39.9	36.9
20	9.3	25.0	45.8	42.8	38.0	35.0
25	10.4	24.3	44.3	41.3	36.0	33.0
31.25	11.7	23.6	42.9	39.9	34.1	31.1
62.5	17.0	21.5	38.4	35.4	28.1	25.1
100	22.0	20.1	35.3	32.3	24.0	21.0

Other Characteristics

Operating temperature	Fixed: -40 ~ +80 ℃
Installation temperature	-20 ~ +60 ℃
Min bending radius	Fixed: 5×OD
Rated Voltage	30 V
Oil resistance	IRM 902, 70℃×4h (EN 50290-2-22)
Flame resistance	VW-1
This cable meets RoHS requirements.	

Packing information

Packaging	500 m / drum
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