

LONGTRONIC® EtherCAT Category 5e

P/N: ZL5208052

Revision: A/01

SF/UTP 2x2x26AWG/7 PUR

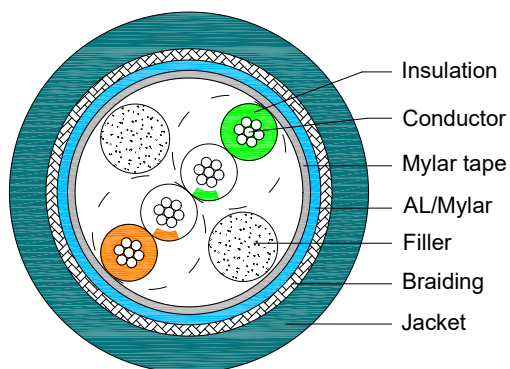
Date: 2023-05-23


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, Filler, Mylar tape, AL/Mylar and tinned copper braiding overall screen, PUR jacket.

Design


Conductor	7*0.16mm stranded bare copper wire
Insulation	HDPE
	OD: 0.87 ± 0.05 mm
	Color: Pair 1: White/orange, Orange Pair 2: White/green, Green
Filler	Cotton rope
Tape	Mylar tape
Overall screen	AL/Mylar
	Tinned copper braiding, coverage ≥ 85 %
Jacket	PUR
	Color: Blue (Similar to RAL5021)
	Thickness: Approx 0.75 mm
	OD: 5.70 ± 0.30 mm
Marking	ZHAOLONG □ LONGTRONIC® □ ETHERNET □ EtherCAT □ CAT5E □ SF/UTP □
	2PR □ 26AWG/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°C)

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

Transmission characteristics (20°C)

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	3.0	17.0	60.0	57.0	57.4	54.4
4	4.5	17.0	53.5	50.0	45.4	42.4
8	6.3	17.0	48.6	45.6	39.3	36.3
10	7.1	17.0	47.0	44.0	37.4	34.4
16	9.1	17.0	43.6	40.6	33.3	30.3
20	10.2	17.0	42.0	39.0	31.4	28.4
25	11.4	16.0	40.3	37.3	29.4	26.4
31.25	12.9	15.1	38.7	35.7	27.5	24.5
62.5	18.6	12.1	33.6	30.6	21.5	18.5
100	24.0	10.0	30.1	27.1	17.4	14.4

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

Other Characteristics

Operating temperature	Fixed: -40 ~ +80 °C
Installation temperature	-20 ~ +60 °C
Min bending radius	Fixed: 5× OD Occasional Moving: 10× OD
Rated Voltage	30 V
Halogen free	IEC 60754-1
Oil resistance	IRM 902,100°C×96h (UL 758)
Flame resistance	IEC 60332-1-2
This cable meets RoHS requirements.	

Packing information

Packaging	500 m / drum
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