

LONGTRONIC® Profinet Type A

SF/UTP 4x22AWG/1 LSZH

P/N: ZL5201017

Version: A/01

Date: 2023-05-31

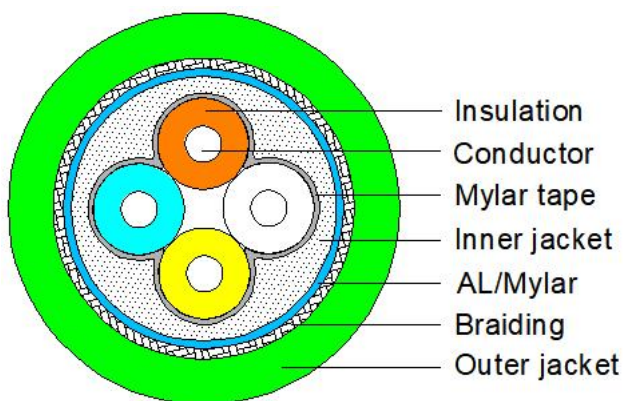
Description

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

Double screened design supported excellent EMC performance. Application for fixed installation and occasional movement.

22AWG/1 solid bare copper conductor, HDPE insulation, Mylar tape, LSZH inner jacket, AL/Mylar and tinned copper braiding overall screen, LSZH outer jacket.

Design



Conductor 0.645mm solid bare copper wire

Insulation HDPE

OD: 1.48 ± 0.05 mm

Color: Pair 1: White, Blue

Pair 2: Yellow, Orange

Cabling Four wires stranded together to a quad

Tape Mylar tape

Inner jacket LSZH

Overall screen AL/Mylar

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

Outer jacket LSZH

Color: Green (Similar to RAL 6018)

Thickness: approx 0.85mm

OD: 6.5 ± 0.3 mm

Marking ZHAOLONG □ LONGTRONIC® □ ETHERNET □ PROFINET □ TYPE □ A □ 4x22AWG □ LSZH

□ □ □ □ E324007 □  □ AWM □ 21279 □ 80°C □ 600V □ FT2 □ □ □ □ XXXXXX □ ****m

Note:

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

Electrical Characteristics(20℃)

Conductor resistance	≤ 57.5 Ω/km
Resistance unbalance	≤ 2.0 % within a pair ≤ 5.0 % between pairs
Dielectric strength	AC 2.0 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	≥ 80 dB at 30~100 MHz

Transmission characteristics (20℃)

Reference standard	IEC 61156-6
Delay skew	≤ 20 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.	Phase Delay ns/100m Max.
1	2.4	20.0	65.3	62.3	63.8	60.8	570.0
4	4.9	23.0	56.3	53.3	51.8	48.8	552.0
8	6.9	24.5	51.8	48.8	45.7	42.7	546.7
10	7.8	25.0	50.3	47.3	43.8	40.8	545.4
16	9.9	25.0	47.2	44.4	39.7	36.7	543.0
20	11.1	25.0	45.8	42.8	37.8	34.8	542.0
25	12.5	24.3	44.3	41.3	35.8	32.8	541.2
31.25	14.1	23.6	42.9	39.9	33.9	30.9	540.4
62.5	20.4	21.5	38.4	35.4	27.9	24.9	538.6
100	26.4	20.1	35.3	32.3	23.8	20.8	536.6

Other Characteristics

Operating temperature	Fixed: -40 ~ +80 ℃
Installation temperature	-20 ~ +60 ℃
Min bending radius	Fixed: 6×OD
Rated Voltage	600 V
Flame resistance	IEC 60332-1-2, FT2
Tensile performance of the cable	Max. 50N
Crush test of the cable	Max. 3000N
This cable meets RoHS requirements.	

Packing information

Packaging	500 m / drum
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