

LONGTRONIC® CC-Link IE
SF/UTP 4x2x24AWG/1 PVC

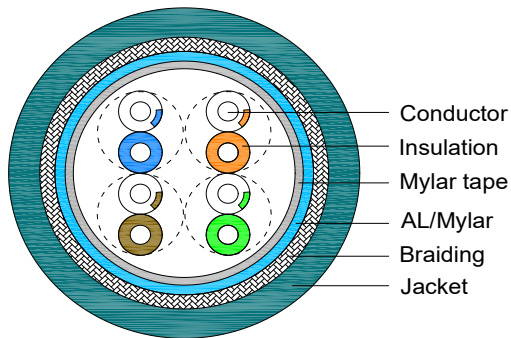
P/N: ZL5209012
 Version: A/04
 Date: 2022-06-17

Description

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

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

Design



Conductor	0.510mm solid bare copper wire		
Insulation	HDPE		
	OD: 1.02 ± 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		
Individual	AL/Mylar		
Overall screen	Tinned copper braiding, coverage ≥ 85 %		
Jacket	PVC		
	Color: Blue(Similar to RAL5021)		
	Thickness: Approx 0.75 mm		
	OD: 6.60 ± 0.30 mm		
Marking	ZHAOLONG □ LONGTRONIC® □ ETHERNET □ CC-Link □ IE □ SF/UTP □ 4PR □ 24AWG		
	□ PVC □ IEC60332-1-2 □ XXXXXX □ ****m		

Note:

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

Electrical Characteristics(20°C)

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°C)

Reference standard	ANSI/TIA 568.2-D
Delay skew	≤ 25 ns/100m

Frequency (MHz)	ATT	RL	NEXT	PSNEXT	ELFEXT	PSELFEXT
	dB Max.	dB Min.	dB Min.	dB Min.	dB Min.	dB Min.
1.0	2.0	20.0	65.3	62.3	63.8	60.8
4.0	4.1	23.0	56.3	53.3	51.8	48.8
8.0	5.8	24.5	51.8	48.8	45.7	42.7
10.0	6.5	25.0	50.3	47.3	43.8	40.8
16.0	8.2	25.0	47.2	44.4	39.7	36.7
20.0	9.3	25.0	45.8	42.8	37.8	34.8
25.0	10.4	24.3	44.3	41.3	35.8	32.8
31.25	11.7	23.6	42.9	39.9	33.9	30.9
62.5	17.0	21.5	38.4	35.4	27.9	24.9
100.0	22.0	20.1	35.3	32.3	23.8	20.8

Other Characteristics

Operating temperature	Fixed: -40 ~ +80 °C
Installation temperature	-20 ~ +60 °C
Min bending radius	Fixed: 4×OD
UV resistance	300h (UL 1581)
Oil resistance	IRM 902, 70°C × 4h (EN 50290-2-22)
Flame resistance	VW-1
This cable meets RoHS requirements.	

Packing information

Packaging:	500m/drum
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Prepared by: Binbin Li	Checked by: Bin You	Approved by: Yunxiang Yao
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