

LONGTRONIC® ETHERNET Category 6A

P/N: ZL5204166

Version:A/04

Date: 2024-07-05

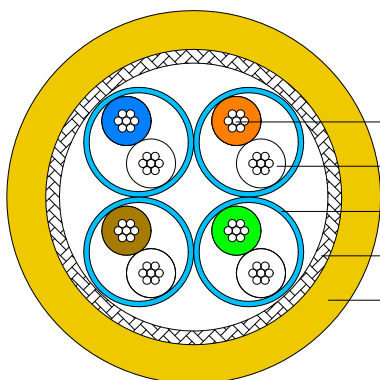
S/FTP 4x2x26AWG/7 PVC

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, Foamed PE insulation, AL/Mylar individual screen, Tinned copper braiding overall screen, PVC jacket.

Design



Conductor
Insulation
AL/Mylar
Braiding
Jacket

Conductor 7*0.16mm stranded bare copper wire

Insulation Foamed PE

OD:1.00 ± 0.05mm

Color: Pair1:White, Blue

Pair2:White, Orange

Pair3:White, Green

Pair4:White, Brown

Individual screen AL/Mylar

Overall screen Tinned copper braiding, coverage≥85%

Jacket PVC

Color :Yellow (Similar to RAL1021)

Thickness: approx 0.70 mm

OD: 6.50 ± 0.30 mm

Marking:

ZHAOLONG □ LONGTRONIC® □ ETHERNET □ CAT6A □ S/FTP □ 4x2x26AWG/7 □

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

XXXXXX □ ****m

Note:

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

Electrical Characteristics(20℃)

Conductor DC resistance	≤ 140 Ω/km
Resistance unbalance	≤2 %
Dielectric strength	DC 1.0 kV for 1 min.
Insulation resistance	≥ 5000 MΩ·km
Capacitance unbalance	≤160 pF/100m
characteristics	ANSI/TIA 568.2-D

Frequency MHz	ATT dB Max.	RL dB Min.	NEXT dB Min.	PSNEXT dB Min.	ACRF dB Min.	PSACRF dB Min.
1	3.0	19.0	65.0	62.0	63.3	60.3
4	4.2	19.0	63.0	60.5	51.2	48.2
8	5.8	19.0	58.2	55.6	45.2	42.2
10	6.5	19.0	56.6	54.0	43.3	40.3
16	8.2	18.0	53.2	50.6	39.2	36.2
25	10.2	17.0	50.0	47.3	35.3	32.3
62.5	16.4	14.0	43.4	40.6	27.3	24.3
100	20.9	12.0	39.9	37.1	23.3	20.3
200	30.1	9.0	34.8	31.9	17.2	14.2
250	33.9	8.0	33.1	30.2	15.3	12.3
300	37.4	7.2	31.7	28.8	13.7	10.7
400	43.7	6.0	28.7	25.8	11.2	8.2
500	49.3	6.0	26.1	23.2	9.3	6.3

Note: Category 6A channel test extreme length 60m.

Frequency MHz	ATT dB Max.	RL dB Min.	NEXT dB Min.	PS NEXT dB Min.	ACRF dB Min.	PS ACRF dB Min.
1.00	3.0	19.1	65.0	62.0	64.2	61.2
4.00	3.5	21.0	64.1	61.8	52.1	49.1
8.00	5.0	21.0	59.4	57.0	46.1	43.1
10.00	5.5	21.0	57.8	55.5	44.2	41.2
16.00	7.0	20.0	54.6	52.2	40.1	37.1
20.00	7.8	19.5	53.1	50.7	38.2	35.2
25.00	8.8	19.0	51.5	49.1	36.2	33.2
31.25	9.8	18.5	50.0	47.5	34.3	31.3
62.50	14.0	16.0	45.1	42.7	28.3	25.3
100.00	18.0	14.0	41.8	39.3	24.2	21.2
200.00	26.1	11.0	36.9	34.3	18.2	15.2
250.00	29.5	10.0	35.3	32.7	16.2	13.2

300.00	32.7	9.2	34.0	31.4	14.6	11.6
400.00	38.4	8.0	29.9	27.1	12.1	9.1
500.00	43.8	8.0	26.7	23.8	10.2	7.2

Note: Category 6A Permanent link test extreme length 60m.

Other Characteristics

Operating temperature:	-40 °C to 80 °C
Installation temperature:	-20 °C to 60 °C
Rated voltage:	30 V
Min bending radius:	Fixed: 5xOD(Cable diameter)
Flame resistance:	IEC 60332-1-2,VW-1
Oil resistance:	IRM 902, 70 °C×4h (EN 50290-2-22)
UV resistance:	UL 1581 section1200
This cable meets RoHS requirements	

Packing information

Packaging	100m / reel;
	300m / reel;
	500m / drum;

Prepared by: Jianbin Shen	Checked by: Yunkang Shen	Approved by: Binbin Li
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