

LONGTRONIC® EtherCAT CAT5E PVC

SF/UTP 2x2x24AWG/7

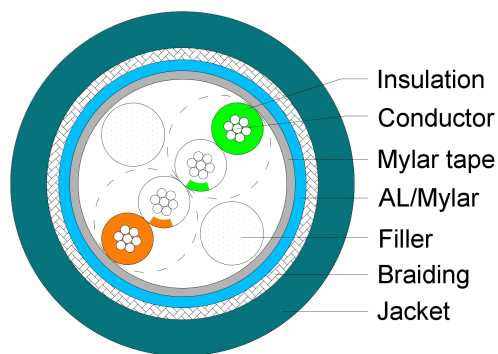
Description

Double screened design supported excellent EMC performance.

The cable is used for data transmission with characteristic impedance for 100ohm. Application for fixed and Occasional movement installation.

24AWG/7 BC conductor, PE insulation, Filler, Mylar tape, AL/Mylar overall screen, Tinned copper braiding overall screen, PVC jacket.

Design



Conductor	7*0.20mm stranded bare copper wire	
Insulation	PE	
	OD: 1.13±0.05mm	
	Color: Pair 1: Orange, White/Orange	Pair 2: Green, White/Green
Filler	Cotton rope	
Cabling	Two pairs and filler stranded together to a core with Mylar tape	
Overall screen	AL/Mylar tape	
	Tinned copper braiding, coverage ≥ 85%	
Jacket	PVC	
	Color : Blue (Similar to RAL5021)	
	Thickness: approx 0.75mm	
	OD: 6.5±0.3mm	
Marking:	ZHAOLONG □ LONGTRONIC® □ ETHERNET □ EtherCAT □ SF/UTP □ 2PR □ 24AWG/7 □	
	PVC □ IEC □ 60332-1-2 □ XXXXXX □ ****m	

Note:

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

Electrical Characteristics(20°C)

Loop conductor DC resistance: $\leq 95\text{ohm/km}$
 Dielectric Strength: DC1.0KV for 1min
 Transmission performance: 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	17.0	60.0	57.0	57.4	54.4
4	4.5	17.0	53.5	50.5	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:Category 5E Channel test extreme length 60m

Other Characteristics

Operating temperature: -40°C to 80°C
 Installation temperature: -20°C to 60°C
 Min. Bending radius: Fixed: 4D(Cable diameter)
 Occasional movement: 8D(Cable diameter)
 UV resistance: UL 1581 section1200
 Oil resistance: EN 50290-2-22 type TM54, JIS C 3005 type A
 Flame resistance: IEC 60332-1-2, FT2
 This cable meets RoHS requirements

Packing information

Packaging: 100m/Reel;
 500m/Drum;

Prepared by: Binbin Li	Checked by: Yunxiang Yao	Approved by: Donghua Ni
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