

LONGTRONIC® EtherCAT Category 5e PVC

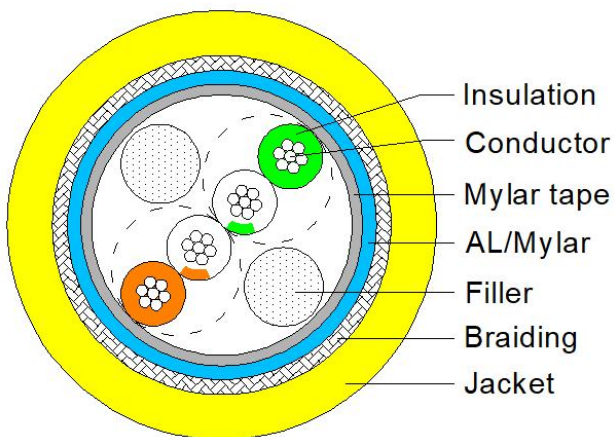
SF/UTP 2x2x26AWG/7

Description

The cable is used for data transmission with characteristic impedance for 100ohm.

26AWG/7 Stranded BC conductor, HDPE insulation, Filler, Mylar tape, AL/Mylar and tinned copper braiding overall screen, PVC jacket

Design



Conductor 7*0.16mm stranded bare copper wire

Insulation HDPE

OD:0.85±0.05mm

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 PVC

Color : Yellow (Similar to RAL1021)

Thickness: approx 0.80mm

OD:5.70±0.30mm

Marking ZHAOLONG □ LONGTRONIC® □ ETHERNET □ EtherCAT □ CAT5E □ SF/UTP □ 2PR □

26AWG □ PVC □ □ □ E324007 □  □ AWM □ 20276 □ 80 °C □ 30V □ VW-1 □ □ □ □

XXXXXX □ ****m

Note:

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

Electrical Characteristics(20℃)

Conductor DC resistance:	≤ 14.8ohm/100m
Insulation resistance:	≥ 5000M Ω · km
Dielectric strength:	AC2KV for 1min,no broken
Transmission performance	Fluke CAT5E channel test for 50m (ANSI/TIA-568.2-D)
operating voltage:	≤ 100V

Frequency MHz	ATT dB 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

Other Characteristics

Operating temperature:	-40℃ ~ +80℃
Installation temperature	-20 ~ +60 ℃
Min bending radius	Fixed: 5 × OD Moving: 15 × OD
Min. Bending radius:	Fixed: 4D(Cable diameter)
Oil resistance(IRM902):	70℃*4h (EN 50290-2-22)
UV resistance:	UL1581 section1200
Bending test:	≥ 30000 times Bending radius: 15mm Angle: ± 90° Weight: 500g Speed: 12 cycles/min
Trailing chain test:	≥ 5 million cycles Drag chain route: 0.9 m Bending radius: 100 mm Acceleration: 25 m/s ² Speed: 0.6 m/s
Flame resistance:	IEC 60332-1-2
UL style	20276
This cable meets RoHS requirements	

Packing information

Packaging: 100m/reel;
500m/Wooden plate;

Prepared by: Yutao Tong

Checked by: Yunkang Shen

Approved by: Bin You