

LONGTRONIC® EtherCAT Cable CAT5E PVC

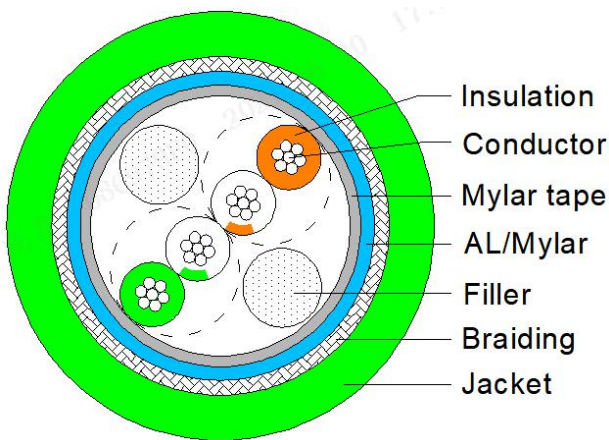
SF/UTP 2x2x26AWG/7

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: 0.92 ± 0.05mm | |
| Filler | Color: Pair 1: Orange, White/Orange | Pair 2: Green, White/Green |
| | Cotton rope | |
| Tape | Mylar tape | |
| Overall screen | AL/Mylar | |
| | Tinned copper braiding, coverage ≥ 85% | |
| Jacket | PVC | |
| | Color : Green (Similar to RAL6018) | |
| | Thickness: approx 0.80mm | |
| Marking: | OD: 5.70 ± 0.30mm | |
| | ZHAOLONG □ LONGTRONIC® □ ETHERNET □ EtherCAT □ SF/UTP □ 2PR □ 26AWG □ PVC | |
| | □ IEC60332-1-2 □ XXXXXX □ ****m | |

Note:

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

Electrical Characteristics(20°C)

| | |
|---------------------------|---|
| Conductor DC resistance: | ≤ 14.8ohm/100m |
| Characteristic impedance: | 100 ± 15ohm @100MHz |
| Insulation resistance: | ≥ 5000M Ω · km |
| Dielectric strength: | AC 1KV for 1min |
| Transmission performance | Fluke CAT5E channel test for 50m (ANSI/TIA-568.2-D) |

| 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 | 2.2 | 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°C to 80°C |
| Installation temperature: | -20°C to 60°C |
| Min. Bending radius: | Fixed: 4D(Cable diameter) |
| Oil resistance(IRM902): | 70°C*4h (EN 50290-2-22) |
| UV resistance: | UL1581 section1200 |
| Flame resistance: | IEC 60332-1-2 |
| This cable meets RoHS requirements | |

Packing information

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

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| Prepared by: Yunkang Shen | Checked by: Binbin Li | Approved by: Yunxiang Yao |
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