

LONGTRONIC® Industrial Ethernet Cable CAT6

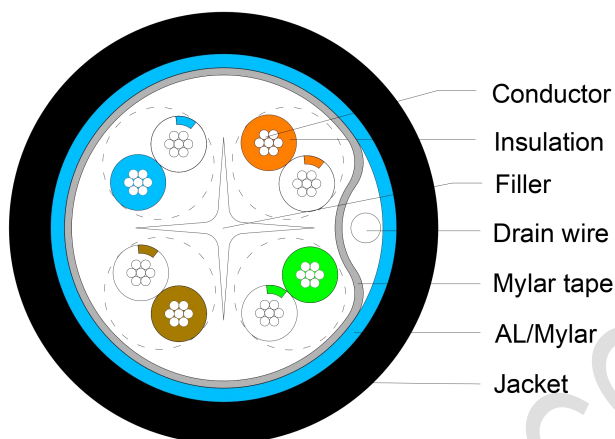
F/UTP 4x2x24AWG/7 PVC

Description

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

24AWG/7 stranded bare copper conductor, HDPE insulation, PE cross filler, Mylar tape, Drain wire, AL/Mylar overall screen, PVC jacket

Design



Conductor 7*0.200mm stranded bare copper wire

Insulation

HDPE

OD:1.04 ± 0.05mm

Color: Pair1: Blue, White/Blue Pair2: Orange, White/Orange

Pair3: Green, White/Green Pair4: Brown, White/Brown

Filler

PE cross separator

Tape

Mylar tape

Drain wire

0.45mm stranded tinned copper wire

Overall screen

AL/Mylar, coverage ≥ 115%

Jacket

PVC

Color: Black (Similar to RAL9004)

Average diameter: 6.70 ± 0.30mm

Thickness: Nom 0.6mm

Marking

ZHAOLONG □ LONGTRONIC® □ ETHERNET □ CABLE □ F/UTP □ □ □ □ E225668 □

CMX □ (UL) □ 4PR □ 24AWG □ 75°C □ □ □ □ Verified □ to □ ANSI/TIA-568.2-D □ Category □

6 □ XXXXXX □ ****m

Note: □ means blank; XXXXXX means batch number; ****m means meter

Electrical Characteristics(20°C)

Conductor DC resistance	≤ 93.8ohm/km
Resistance unbalance	≤ 5%
Dielectric strength	DC1KV for 1min (conductor to conductor, conductor to screen)
Insulation resistance	≥ 5000MΩ · km
Delay skew	≤ 45ns/100m

Transmission Characteristics(20°C)

Reference specification:	ISO11801-1-1;ANSI/TIA 568.2-D
Characteristic impedance:	Nom. 100 Ω acc. to 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	19.1	65.0	62.0	64.2	61.2
4	3.5	21.0	64.1	61.8	52.1	49.1
8	5.0	21.0	59.4	57.0	46.1	43.1
10	5.5	21.0	57.8	55.5	44.2	41.2
16	7.0	20.0	54.6	52.2	40.1	37.1
20	7.9	19.5	53.1	50.7	38.2	35.2
25	8.9	19.0	51.5	49.1	36.2	33.2
31.25	10.0	18.5	50.0	47.5	34.3	31.3
62.5	14.4	16.0	45.1	42.7	28.3	25.3
100	18.6	14.0	41.8	39.3	24.2	21.2
200	27.4	11.0	36.9	34.3	18.2	15.2
250	31.1	10.0	35.3	32.7	16.2	13.2

NOTE:Category 6 permanent link test extreme length 60m

Other Characteristics

Jacket characteristic	
Tensile strength(before aging)	≥ 13.8MPa
Elongation(before aging)	≥ 100%
Tensile strength (after aging100°C × 240h)	Min.retention of unaged 85%
Elongation (after aging100°C × 240h)	Min.retention of unaged 50%
Heat shock	85°C x1h,deformation ≤ 50% (UL444)
Cold bend test(-40°C × 4h)	8xOD.,No cracks
Oil resistance	100°C × 96h (UL1227 Res I)
Operating temperature	-40°C to 80°C
Installation temperature	-20°C to 60°C
Flame resistance	VW-1, CMX
UV resistance	UL1581, 720h
This cable meets RoHS requirements	

Packing information

Packaging

500 m / drum

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