

LONGTRONIC® Profinet R CAT5E PUR

SF/UTP 4x22AWG

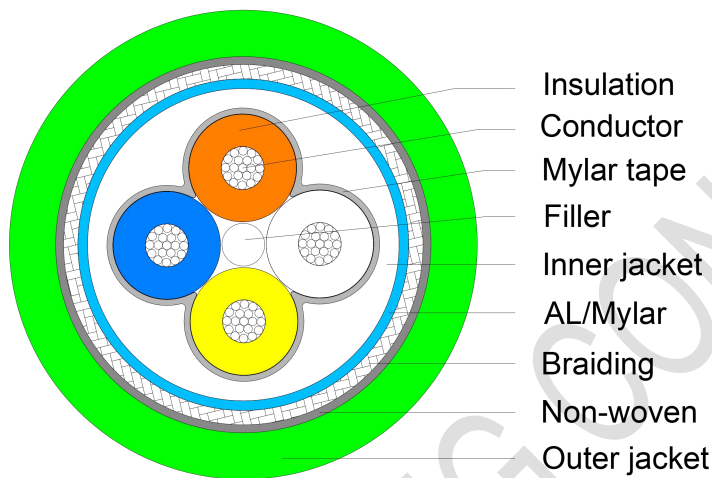
Description

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

Double screened design supported excellent EMC performance. Application for moved installation.

22AWG stranded TC conductor, HDPE insulation, Filler, Mylar tape, LSZH inner jacket, AL/Mylar and tinned copper braiding overall screen, Non-woven, PUR outer jacket

Design



Conductor	Stranded tinned copper wire
Insulation	HDPE
	OD:1.50mm
	Color: Pair 1:White, Blue Pair 2:Yellow, Orange
Cabling	Four wires stranded together to a quad with filler.
Tape	Mylar tape
Inner jacket	Halogen free
Overall screen	AL/Mylar
	Tinned copper braiding,coverage ≥ 85%
Tape	Non-woven
Outer jacket	PUR
	Color: Green (Similar to RAL6018)
	OD:6.50 ± 0.30mm
Marking:	ZHAOLONG □ LONGTRONIC® □ ETHERNET □ PROFINET □ TYPE □ ROBOTIC □ 4x22AWG
	□ PUR □ □ □ □ E324007 □  □ AWM □ 21329 □ 80℃ □ 600V □ FT2 □ □ □ □ XXXXXX □ ****m

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

Electrical Characteristics(20℃)

Conductor resistance:	≤ 62ohm/km
Operating voltage:	≤ 600V
Resistance unbalance:	≤ 5%
Dielectric strength:	DC 1.0KV for 1min
Insulation resistance:	≥ 5000M Ω .km
Delay Skew:	≤ 20ns/100m
Coupling attenuation:	≥ 80dB @30-100MHz

Transmission Characteristics(20℃)

Reference specification:	IEC 61156-6
Characteristic impedance:	100 ± 5 ohm@100MHz

Frequency (MHz)	ATT dB/100m Max.	RL dB Min.	NEXT dB Min.	PSNEXT dB Min.	Phase Delay ns/100m Max.
*1	2.4	20.0	65.3	62.3	570.0
4	4.9	23.0	56.3	53.3	552.0
8	6.9	24.5	51.8	48.8	546.7
10	7.8	25.0	50.3	47.3	545.4
16	9.9	25.0	47.2	44.2	543.0
20	11.1	25.0	45.8	42.8	542.0
25	12.5	24.2	44.3	41.3	541.2
31.25	14.1	23.3	42.9	39.9	540.4
62.5	20.4	20.7	38.4	35.4	538.6
100	26.4	19.0	35.3	32.3	536.6

NOTE: (*)The cable performance between 1 MHz and 4 MHz is achieved by design only and it is therefore not necessary to test for this performance below 4 MHz.therefore not necessary to test for this performance below 4 MHz.

Other Characteristics

Operating temperature:	-40℃ to +80℃ (Fixed) +5℃ to +60℃ (Moving)
Installation temperature:	-20℃ to +60℃
Min bending radius:	Fixed: 4D(Cable diameter) Moving: 8D(Cable diameter)
Halogen free:	IEC 60754-1, IEC 60754-2
Oil resistance:	UL 758 section15; JIS C 3005 type B
UV resistance:	UL 1581 section1200
Flame resistance:	FT2, IEC 60332-1-2
Tensile performance of the cable:	Max. 50N
Crush test of the cable:	Max. 3000N
Trailing chain test:	≥ 10 million times Drag chain route: 0.6m Bending radius: 50mm Test Acceleration: 60m/s ²

Torsion test: Speed: 1.4m/s
 ≥ 10 million times
Angle: $\pm 180^\circ$
Speed: 60 cycles/min

Bending test: ≥ 1 million times
Bending radius: 50mm
Angle: $\pm 90^\circ$
Weight: 300g
Speed: 60 cycles/min

This cable meets RoHS requirements

Packing information

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

Prepared by: Yunkang Shen

Checked by: Bin You

Approved by: Yunxiang Yao