

LONGTRONIC® FD CANBus TP

S/UTP 2x2x0.25mm² PUR

P/N: ZL5104008

Version: A/06

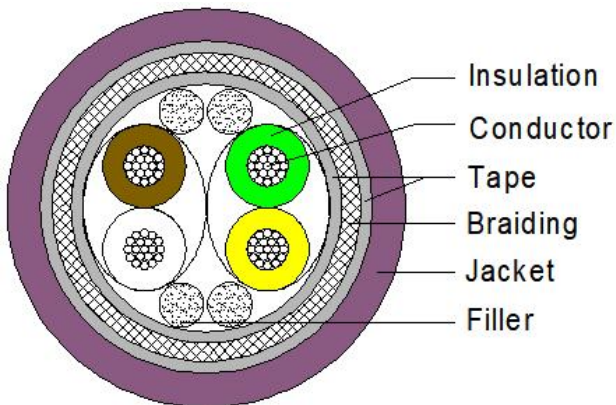
Date: 2022-06-13

Description

This is a cable with 120 Ω characteristic impedance for data transmission of CANBus system. Application for moved installation.

0.25mm² stranded BC conductor, Foam-PE insulation, Non-woven tape, Tinned copper braiding overall screen, Non-woven tape, PUR jacket.

Design



Conductor	32*0.10 mm stranded bare copper wire
Insulation	Foam-PE
	OD: 1.35 ± 0.10 mm
	Color: Pair1: White, Brown Pair2: Yellow, Green
Filler	PP yarn
Tape	Non-woven tape
Overall screen	Tinned copper braiding, coverage ≥ 80 %
Tape	Non-woven tape
Jacket	PUR

Color: Violet (Similar to RAL4001)

Thickness: Approx 1.00 mm

OD: 7.80 ± 0.50 mm

Marking ZHAOLONG □ LONGTRONIC® □ BUS □ CANBUS □ FD-TP □ 2x2x0.25mm² □ PUR □ □ □ □

E324007 □  □ AWM □ 21329 □ 80 °C □ 600V □ FT2 □ □ □ □ XXXXXX □ ****m

Note:

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

Electrical characteristics (20℃)

Conductor resistance	$\leq 79.9 \Omega/\text{km}$
Dielectric strength	AC 2.0 kV for 1 min.
Insulation resistance	$\geq 5000 \text{ M}\Omega \cdot \text{km}$
Mutual Capacitance	$\leq 60 \text{ pF/m}$ at 800 Hz or 1000 Hz
Velocity of propagation	Nom. 70 %
Characteristic impedance	$120 \pm 15 \Omega$ at 1.0 MHz
Attenuation	Nom. 0.60 dB/100m at 100 kHz
	Nom. 1.50 dB/100m at 1 MHz
	Nom. 4.30 dB/100m at 5 MHz
	Nom. 8.10 dB/100m at 10 MHz
	Nom. 10.50 dB/100m at 20 MHz
Transfer impedance	$\leq 250 \text{ m}\Omega/\text{m}$ at 30 MHz

Other characteristics

Operating temperature	Fixed: $-40 \sim +80 \text{ }^{\circ}\text{C}$
	Moving: $-30 \sim +70 \text{ }^{\circ}\text{C}$
Installation temperature	$-30 \sim +70 \text{ }^{\circ}\text{C}$
Min bending radius	Fixed: $5 \times \text{OD}$
	Moving: $8 \times \text{OD}$
Rated voltage	600 V
Halogen free	IEC 60754-1
Oil resistance	IRM 902, $100^{\circ}\text{C} \times 96\text{h}$ (UL 758)
Flame resistance	IEC 60332-1-2, FT2
Sunlight resistance	300 h (UL1581)
Trailing chain test	≥ 5 million cycles
	Drag chain route: 0.6 m
	Bending radius: 75 mm
	Acceleration: 60 m/s^2
	Speed: 1.4 m/s

This cable meets RoHS requirements.

Packing information

Packaging	500 m / drum
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