LONGTRONIC® CANBus TP

S/UTP 2x2x0.34mm² PVC

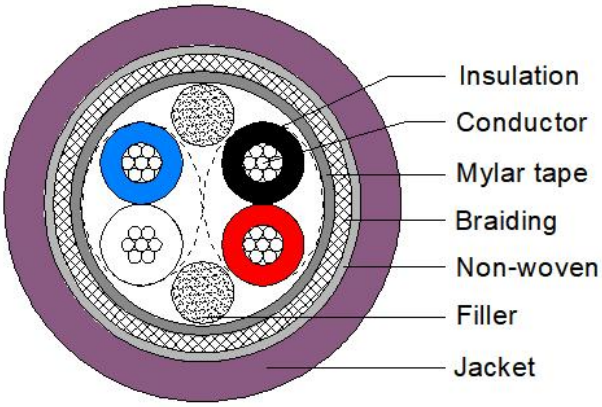
P/N: ZL5104004
Version: A/05
Date: 2022-06-13

Description

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

0.34mm² stranded BC conductor, Foam-PE insulation, Filler, Mylar tape, Tinned copper braiding overall screen, Non-woven tape, PVC jacket.

Design



Conductor	7*0.254 mm stranded bare copper wire
Insulation	Foam-PE
	OD: 1.45 ± 0.10 mm
	Color: Pair1: White, Blue Pair2: Red, Black
	Note: Line pair spacing should be less than 20mm.
Filler	PP yarn
Tape	Mylar tape
Overall screen	Tinned copper braiding, coverage ≥ 85 %
Tape	Non-woven tape
Jacket	PVC
	Color: Violet (Similar to RAL4001)
	Thickness: Approx 0.75 mm
	OD: 7.50 ± 0.30 mm
Marking	ZHAOLONG□LONGTRONIC®□BUS□CANBUS□2x2x0.34mm²□PVC□□□□
	E324007□ᴿᵁ□AWM□21912□80℃□600V□FT2□□□□XXXXXX□****m

Note:

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

Electrical characteristics (20℃)

Conductor resistance	≤ 55.4 Ω/km
Dielectric strength	AC 2.0 kV for 1 min.
Insulation resistance	≥ 5000 MΩ·km
Mutual Capacitance	≤ 60 pF/m at 800 Hz or 1000 Hz
Velocity of propagation	Nom. 66%
Characteristic impedance	120 ± 15 Ω at 1.0 MHz
Attenuation	Nom. 0.60 dB/100m at 100 kHz
	Nom. 1.80 dB/100m at 1 MHz
	Nom. 4.00 dB/100m at 5 MHz
	Nom. 6.30 dB/100m at 10 MHz
	Nom. 9.10 dB/100m at 20 MHz
Transfer impedance	≤ 250 mΩ/m at 30 MHz

Other characteristics

Operating temperature	Fixed: -40 ~ +80 ℃
Installation temperature	-20 ~ +60 ℃
Min bending radius	Fixed: 4×OD
Rated voltage	600 V
Oil resistance	IRM 902, 70℃×4h (EN 50290-2-22)
Flame resistance	IEC 60332-1-2, FT2
Sunlight resistance	300 h (UL1581)

This cable meets RoHS requirements.

Packing information

Packaging	500 m / drum

Prepared by: Yunkang Shen	Checked by: Binbin Li	Approved by: Bin You