

LONGTRONIC® Profibus DP FD PVC

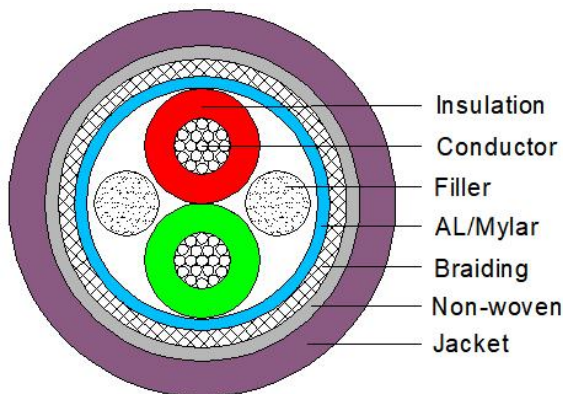
SF/UTP 1x2x22AWG/19

Description

This cable is designed for industrial field bus systems of automation and communication, specially designed flexible cable used in many applications, such as process control and automation, drag chain, moving parts of the machine, etc.

22AWG/19 BC conductor, Foam-PE insulation, PP filler, AL/Mylar and tinned copper braiding overall screen, Non-woven tape, PVC jacket

Design



Conductor 19*0.15mm stranded bare copper wire

Insulation Foam-PE
OD: 2.70 ± 0.10mm
Color: Red, Green

Filler PP

Overall screen AL/Mylar
Tinned copper braiding, coverage about 80 %

Tape Non-woven tape

Jacket PVC
Color: Violet (Similar to RAL4001)
OD: 8.00 ± 0.30 mm

Marking: ZHAOLONG □ LONGTRONIC® □ INDUSTRIAL □ CABLE □ FD □ 1x2x22AWG □ PVC □ □
□ □ E324007 □  □ AWM □ 21912 □ 80 °C □ 600V □ FT2 □ □ □ XXXXXX □ ****m

Note:

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

Electrical Characteristics(20℃)

Conductor resistance	$\leq 55 \Omega/\text{km}$
Dielectric strength	AC 2.0 kV for 1 min.
Insulation resistance	$\geq 5000 \text{ M}\Omega \cdot \text{km}$
Mutual Capacitance	Nom. 30 pF/m at 800 Hz or 1000 Hz
Velocity of propagation	Nom. 78%
Characteristic impedance	$270 \pm 27 \Omega$ at 9.6 kHz $185 \pm 18.5 \Omega$ at 38.4 kHz $150 \pm 15 \Omega$ at 3~20 MHz
Attenuation	$\leq 3.0 \text{ dB/km}$ at 9.6 kHz $\leq 4.0 \text{ dB/km}$ at 38.4 kHz $\leq 11.0 \text{ dB/km}$ at 200 kHz $\leq 25.0 \text{ dB/km}$ at 4 MHz $\leq 49.0 \text{ dB/km}$ at 16 MHz

Other Characteristics

Operating temperature	Fixed: $-40 \sim +80 \text{ }^{\circ}\text{C}$ Moving: $+5 \sim +60 \text{ }^{\circ}\text{C}$
Installation temperature	$-20 \sim +60 \text{ }^{\circ}\text{C}$
Min bending radius	Fixed: $5 \times \text{OD}$ Moving: $8 \times \text{OD}$
Rated voltage	300 V
Oil resistance	EN 50290-2-22 type TM54, JIS C 3005 type A
Flame resistance	IEC 60332-1-2, FT2
Sunlight resistance	300 h (UL1581)
Trailing chain test	≥ 5 million cycles Drag chain route: 0.9 m Bending radius: 75 mm Test Acceleration: 25m/s^2 Speed: 2.6m/s
Torsion test	≥ 5 million cycles Rotation angle: $\pm 180^{\circ}$ Rotation distance: 0.6 m Rotation rate: 60 cycles/min.

This cable meets RoHS requirements

Packing information

Packaging	500 m / drum
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