



Product: [2126A](#)

Fieldbus, 50 Pr #18 Str TC, XLPO Ins, IS/OS, TPE Jkt, 600V TC-ER

[Request Sample](#)

Product Description

Fieldbus, 50 Pair 18AWG (7x26) Tinned Copper, XLPO Insulation, Individual & Overall Beldfoil® Shield, Orange TPE Outer Jacket, 600V TC-ER

Technical Specifications

Product Overview

Suitable Applications:	harsh environment digital and serial two-way communication, oil and gas extraction and refining sites, petrochemical, Profibus process automation or Foundation FieldBus process automation, extreme temperature environments, exposure to humidity/moisture, dust, and oil, remote locations long distance applications, etc.
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Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	No. of Pairs
18	7x26	TC - Tinned Copper	50

Conductor Count:	100
Total Number of Pairs:	24

Insulation

Material	Nominal Wall Thickness
XLPE - Cross-Linked Polyethylene (Thermoset)	0.032 in

Color Chart

Number	Color
1	Blue, Orange and Numbered
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Inner Shield Material

Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG
Tape	Bi-Laminate (Alum+Poly)	Beldfoil®	100%	TC - Tinned Copper	20

Outer Shield Material

Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG
Tape	Bi-Laminate (Alum+Poly)	Beldfoil®	100%	TC - Tinned Copper	18

Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
TPE - Thermoplastic Elastomer	1.947 in	0.12 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR
5.86 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Conductor
22 pF/ft

Inductance

Nominal Inductance
0.22 µH/ft

Impedance

Nominal Characteristic Impedance
100 Ohm

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
0.039 MHz	0.08 dB/100ft

Current

Max. Recommended Current [A]

5.4 Amps per Conductor

Voltage**UL Voltage Rating**

600 V

Electrical Characteristics Notes: Max Propagation Delay Change From 7.812 kHz to 39.06 kHz: 518 pS/ft

Other Electrical Characteristic 2: 31.25 KBits/sec

Temperature Range

UL Temp Rating: 90°C

Operating Temp Range: -40°C to 90°C

Mechanical Characteristics

Oil Resistance: Yes

Bulk Cable Weight: 1782 lbs/1000ft

Max. Pull Tension: 2892 lbs

Min. Bend Radius/Minor Axis: 19.5 in

Standards

NEC Articles: Article 336

NEC/(UL) Compliance: TC-ER

CSA AWM Compliance: AWM I A/B II A/B

IEC Compliance: IEC 61158-2

Other Standards: ISA/SP-50 Type A

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV): Yes

EU Directive 2003/11/EC (BFR): Yes

EU Directive 2011/65/EU (RoHS 2): Yes

EU Directive 2012/19/EU (WEEE): Yes

EU Directive 2015/863/EU (RoHS 2 amendment): Yes

EU Directive Compliance: EU Directive 2003/11/EC (BFR)

EU CE Mark: Yes

Suitability

Suitability - Burial: Yes

Suitability - Indoor: Yes

Suitability - Outdoor: Yes

Suitability - Sunlight Resistance: Yes

Flammability, LSOH, Toxicity Testing

UL Flammability: UL1581 Vertical Tray

CSA Flammability: FT4

IEC Flammability: 60332-3-24 (Category C)

UL voltage rating: 600 V RMS

Plenum/Non-Plenum

Plenum (Y/N): No

Part Number**Variants**

Item #	Color	Putup Type	Length	UPC
2126A 0061000	Blue, Light	Reel	1,000 ft	612825129905
2126A 0031000	Orange	Reel	1,000 ft	612825129899

History

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