



**Part Number:** 2126A

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

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**Product Description**

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

**Technical Specifications**

**Physical Characteristics (Overall)**

**Conductor**

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

Conductor Count:	100
Total Number of Pairs:	24
Conductor Size:	18 AWG

**Insulation**

Material	Nominal Wall Thickness
XLP - Cross Linked Polyolefin	0.032 in

**Color Chart**

Number	Color
1	Blue and Orange Numbered 1
2	Blue and Orange Numbered 2
3	Blue and Orange Numbered 3
4	Blue and Orange Numbered 4
5	Blue and Orange Numbered 5
6	Blue and Orange Numbered 6
7	Blue and Orange Numbered 7
8	Blue and Orange Numbered 8
9	Blue and Orange Numbered 9
10	Blue and Orange Numbered 10
11	Blue and Orange Numbered 11
12	Blue and Orange Numbered 12
13	Blue and Orange Numbered 13
14	Blue and Orange Numbered 14
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41	Blue and Orange Numbered 41
42	Blue and Orange Numbered 42
43	Blue and Orange Numbered 43
44	Blue and Orange Numbered 44
45	Blue and Orange Numbered 45
46	Blue and Orange Numbered 46
47	Blue and Orange Numbered 47
48	Blue and Orange Numbered 48
49	Blue and Orange Numbered 49
50	Blue and Orange Numbered 50

#### Inner Shield Material

Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG
Tape	Aluminum Foil-Polyester Tape	Beldfoil®	100 %	TC - Tinned Copper	20

#### Outer Shield Material

Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG
Tape	Aluminum/Polyester	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

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#### Conductor DCR

Nominal Conductor DCR
5.86 Ohm/1000ft

#### Capacitance

Nom. Capacitance Conductor to Conductor
22 pF/ft

#### Inductance

Nominal Inductance
0.22 $\mu$ H/ft

#### Impedance

Nominal Characteristic Impedance
100 Ohm

#### High Frequency (Nominal/Typical)

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

#### Delay

Nominal Velocity of Propagation (VP) [%]
64 %

## Current

### Max. Recommended Current [A]

5.4 Amps per Conductor

## Voltage

### UL Voltage Rating

600 V RMS

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 Recommended Pulling Tension: 2892 lbs

Min Bend Radius/Minor Axis: 19.5 in

## Standards

NEC/(UL) Specification: TC-ER

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

## 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 II): Yes

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

EU Directive 2015/863/EU: Yes

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

EU CE Mark: Yes

CA Prop 65 (CJ for Wire & Cable): 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

ISO/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
2126A 0061000	Blue, Light
2126A 0031000	Orange

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