



**Part Number:** 2134A

Fieldbus, 24 Pr #16 Str TC, XLPO Ins, IS/OS, TPE Jkt, 600V TC-ER

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**Product Description**

Fieldbus, 24 Pair 16AWG (7x24H) 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
16	7x24	TC - Tinned Copper	24

Conductor Count:	48
Total Number of Pairs:	24

**Insulation**

Material	Nominal Wall Thickness
XLP - Cross Linked Polyolefin	0.038 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
15	Blue and Orange Numbered 15
16	Blue and Orange Numbered 16
17	Blue and Orange Numbered 17
18	Blue and Orange Numbered 18
19	Blue and Orange Numbered 19
20	Blue and Orange Numbered 20
21	Blue and Orange Numbered 21
22	Blue and Orange Numbered 22
23	Blue and Orange Numbered 23
24	Blue and Orange Numbered 24

**Inner Shield Material**

Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG

Tape	Aluminum Foil-Polyester Tape	Beldfoil®	100 %	TC - Tinned Copper	18
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#### Outer Shield Material

Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG
Tape	Aluminum/Polyester	Beldfoil®	100 %	TC - Tinned Copper	16

#### Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
TPE - Thermoplastic Elastomer	1.638 in	0.085 in

## Electrical Characteristics

#### Conductor DCR

Nominal Conductor DCR
4.2 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	0.065 dB/100ft

#### Delay

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

#### Current

Max. Recommended Current [A]
7.2 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:	1219 lbs/1000ft
Max Recommended Pulling Tension:	2286 lbs
Min Bend Radius/Minor Axis:	16.5 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
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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
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## Part Number

### Variants

Item #	Color	UPC	Length
2134A 0061000	Blue, Light	612825130406	1,000 ft
2134A 0031000	Orange	612825130390	1,000 ft

## History

Update and Revision:	Revision Number: 0.102 Revision Date: 08-28-2019
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