



**Part Number: 2122A**

Fieldbus, 12 Pr #18 Str TC, XLPO Ins, IS/OS, TPE Jkt, 600V TC-ER

[Request Sample](#)

**Product Description**

Fieldbus, 12 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	12

Conductor Count: 24

**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

**Inner Shield Material**

Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Tape	Aluminum Foil-Polyester Tape	Beldfoil®	100 %	TC - Tinned Copper	20	7x28

**Outer Shield Material**

Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Tape	Aluminum/Polyester	Beldfoil®	100 %	TC - Tinned Copper	18	7x26 mm

**Outer Jacket Material**

Material	Nominal Diameter	Nominal Wall Thickness	Ripcord
TPE - Thermoplastic Elastomer	1.015 in	0.085 in	Yes

**Electrical Characteristics**

**Conductor DCR**

Nominal Conductor DCR
5.86 Ohm/1000ft

#### Capacitance

Max. Capacitance Unbalance	Nom. Capacitance Conductor to Conductor
1.2 pF/ft	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 %

#### High Freq

Max. Insertion Loss (Attenuation)	Max./Min. Input Impedance (unFitted)
0.091 dB/100ft	100 Ohm

#### Current

Element	Max. Recommended Current [A]
Per Conductor	5.4 Amps per Conductor

#### Voltage

Description	UL Voltage Rating
CSA CIC type TC	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

Installation Temp Rating:	-25°C
UL Temp Rating:	90°C
Operating Temp Range:	-40°C To 90°C

#### Mechanical Characteristics

Oil Resistance:	Yes
Bulk Cable Weight:	476 lbs/1000ft
Max Recommended Pulling Tension:	711 lbs
Min Bend Radius/Minor Axis:	10.25 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

MII Order #39 (China RoHS):	Yes
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## Suitability

Suitability - Burial:	Yes
Suitability - Indoor:	Yes
Suitability - Oil Resistance:	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
2122A 0061000	Blue, Light	612825129721	1,000 ft
2122A 0065000	Blue, Light	612825129738	5,000 ft
2122A 0031000	Orange	612825129707	1,000 ft
2122A 0035000	Orange	612825129714	5,000 ft

## History

Update and Revision:	Revision Number: 0.200 Revision Date: 08-22-2019
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