



**Product:** [1334A](#)

Fieldbus, 1 Pr #18 Str TC, PO Ins, OS+TC Brd, PVC Jkt, CMG

[Request Sample](#)

## Product Description

Fieldbus, 1 Pair 18AWG (7x26) Tinned Copper, PO Insulation, Overall Beldfoil®+Tinned Copper Braid(65%) Shield, Orange PVC Outer Jacket, CMG

## 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	Nominal Diameter	No. of Pairs
18	7x26	TC - Tinned Copper	0.048 in	1

Conductor Count:	2
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#### Insulation

Material
PP - Polypropylene

#### Color Chart

Number	Color
1	Blue & Orange

#### Outer Shield

Type	Layer	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Tape	1	Bi-Laminate (Alum+Poly)	Beldfoil®	100%	TC - Tinned Copper	20	7x28
Braid	2	Tinned Copper (TC)		65%			

#### Outer Jacket

Material	Nominal Diameter	Ripcord
PVC - Polyvinyl Chloride	0.287 in	Yes

### Electrical Characteristics

#### Conductor DCR

Max. Outer Shield DCR	Nominal Conductor DCR
4.9 Ohm/1000ft	5.86 Ohm/1000ft

#### Capacitance

Max. Capacitance Unbalance	Nom. Capacitance Conductor to Shield	Nom. Mutual Capacitance
1.2 pF/ft	45 pF/ft	24 pF/ft

#### Impedance

Nominal Characteristic Impedance
100 Ohm

## High Frequency (Nominal/Typical)

### Nom. Insertion Loss

0.069 dB/100ft

## Delay

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

66%

## High Frequency

### Max. Insertion Loss (Attenuation) | Max./Min. Input Impedance (unFitted)

0.091 dB/100ft | 100 Ohm

## Current

### Element | Max. Recommended Current [A]

Per Conductor | 5.2 Amps per Conductor

## Voltage

### UL Voltage Rating

300 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 +105°C

## Mechanical Characteristics

Oil Resistance: Yes

UV Resistance: Yes

Max. Pull Tension: 59 lbs

Min. Bend Radius/Minor Axis: 2.9 in

## Standards

CEC/C(UL) Compliance: CMG

## Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV): 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

MII Order #39 (China RoHS): Yes

## Suitability

Suitability - Burial: Yes - UL

Suitability - Indoor: Yes

Suitability - Outdoor: Yes

Suitability - Sunlight Resistance: Yes

## Flammability, LS0H, Toxicity Testing

UL Flammability: UL1685 FT4 Loading

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

IEEE Flammability: 1202

UL voltage rating: 300 V RMS

## Plenum/Non-Plenum

Plenum (Y/N): No

## Related Part Numbers

### Variants

Item #	Color	Put-Up Type	Length	UPC
1334A 0061000	Blue, Light	Reel	1,000 ft	612825112143
1334A 0063280	Blue, Light	Reel	3,280 ft	612825112150
1334A 0031000	Orange	Reel	1,000 ft	612825112112
1334A 0033280	Orange	Reel	3,280 ft	612825112136

Footnote: C - CRATE REEL PUT-UP.

### History

Update and Revision: Revision Number: 0.448 Revision Date: 12-15-2021

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