




**Product:** [1335A](#) 

Fieldbus, 2 C #16 Str TC, PO Ins, OS+TC Brd, PVC Jkt, CM

 [Request Sample](#)

## Product Description

Fieldbus, 2 Conductor 16AWG (7x24H) Tinned Copper, PO Insulation, Overall Beldfoil®+Tinned Copper Braid(65%) Shield, Orange PVC Outer Jacket, CM

## 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.

### Physical Characteristics (Overall)

#### Conductor

AWG	Stranding	Material	No. of Pairs
16	7x24	TC - Tinned Copper	1

Conductor Count: 2

#### Insulation

Material
PP - Polypropylene

#### Color Chart

Number	Color
1	Blue & Orange

#### Outer Shield Material

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

#### Outer Jacket Material

Material	Nominal Diameter	Ripcord
PVC - Polyvinyl Chloride	0.34 in	Yes

### Electrical Characteristics

#### Conductor DCR

Max. Outer Shield DCR	Nominal Conductor DCR
4.9 Ohm/1000ft	4.2 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
0.066 dB/100ft

Delay

Nominal Velocity of Propagation (VP) [%]
66 %

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	8 Amps

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:	-30°C To +90°C

Mechanical Characteristics

Oil Resistance:	Yes
UV Resistance:	Yes
Bulk Cable Weight:	79 lbs
Max Recommended Pulling Tension:	84 lbs
Min Bend Radius/Minor Axis:	3.4 in

Standards

NEC/(UL) Specification:	CM, ITC, PLTC
CEC/C(UL) Specification:	CM

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	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
EU RoHS Compliance Date (yyyy-mm-dd):	2004-01-01
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 UL Loading
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UL voltage rating:	300 V RMS
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Plenum/Non-Plenum

Plenum (Y/N):	No
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Part Number

Variants

Item #	Color	Putup Type	Length	UPC
1335A 0061000	Blue, Light	Reel	1,000 ft	612825112198
1335A 0031000	Orange	Reel	1,000 ft	612825112167

Footnote:	C - CRATE REEL PUT-UP.
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History

Update and Revision:	Revision Number: 0.328 Revision Date: 04-28-2020
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