



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.
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Physical Characteristics (Overall)

Conductor

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

Conductor Count:	2
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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, LSOH, Toxicity Testing

UL Flammability: UL1685 UL Loading

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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