



Product: [1335A](#)

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

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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

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	0.387 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 Frequency

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 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 Temperature Range:	-30°C to +90°C

Mechanical Characteristics

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

Standards

NEC Articles:	Article 725, Article 727, Article 800
NEC/(UL) Compliance:	CM, ITC, PLTC
CEC/C(UL) Compliance:	CM
CPR Euroclass:	Eca

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 - Oil Resistance:	Yes
Suitability - Outdoor:	Yes
Suitability - Sunlight Resistance:	Yes

Flammability, LSOH, Toxicity Testing

UL Flammability:	UL1685 UL Loading
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

Plenum (Y/N): No

Related Part Numbers

Variants

Item #	Color	Put-Up 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.

History

Update and Revision: Revision Number: 0.507 Revision Date: 08-07-2023

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