



Product: [1336A](#)

Fieldbus, 2 C #14 Str TC, PO Ins, OS+TC Brd, PVC Jkt, PLTC

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Product Description

Fieldbus, 2 Conductor 14AWG (7x22H) Tinned Copper, PO Insulation, Overall Beldfoil®+Tinned Copper Braid(65%) Shield, Orange PVC Outer Jacket, PLTC

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
14	7x22	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	18	7x26
Braid	2	Tinned Copper (TC)		65%			

Outer Jacket

Material	Nominal Diameter	Ripcord
PVC - Polyvinyl Chloride	0.43 in	Yes

Electrical Characteristics

Conductor DCR

Max. Outer Shield DCR	Nominal Conductor DCR
4.9 Ohm/1000ft	2.5 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
0.062 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 Temperature Range:	-30°C to +90°C

Mechanical Characteristics

Oil Resistance:	Yes
UV Resistance:	Yes
Max. Pull Tension:	131 lbs
Min. Bend Radius/Minor Axis:	4.3 in

Standards

NEC/(UL) Compliance:	ITC, PLTC
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, LS0H, Toxicity Testing

UL Flammability:	UL1685 UL Loading
IEC Flammability:	IEC 60332-1-2
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	No
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Related Part Numbers

Variants

Item #	Color	Put-Up Type	Length	UPC
1336A 0061640	Blue, Light	Reel	1,640 ft	612825112235
1336A 0063280	Blue, Light	Reel	3,280 ft	612825112242
1336A 0031000	Orange	Reel	1,000 ft	612825112211
1336A 0031640	Orange	Reel	1,640 ft	612825112228

Footnote:	C - CRATE REEL PUT-UP.
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History

Update and Revision:	Revision Number: 0.506 Revision Date: 04-30-2024
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