



Part Number: 1335A

ISA/SP-50 FOUNDATION Fieldbus or PROFIBUS, (1 pr) 16 AWG (7x24) TC, PO/PVC, Foil+TC Braid, CM, PLTC

Product Description

One 16 AWG pair stranded (7x24) tinned copper conductors, polyolefin insulation, overall Beldfoil® shield (100% coverage) plus a tinned copper braid shield (65% coverage), oil-resistant PVC jacket.

Technical Specifications

Physical Characteristics (Overall)

Conductor

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

Total Number of Conductors:	2
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Insulation

Material
PO - Polyolefin

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	Aluminum Foil-Polyester Tape	Beldfoil®	100 %	TC - Tinned Copper	20	7x28 mm
Braid	2	TC - Tinned Copper		65 %			

Outer Jacket Material

Material	Nominal Diameter	Ripcord
PVC - Polyvinyl Chloride	0.34 in	Yes

Electrical Characteristics

Capacitance

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

Shielding:	Foil + Braid(s)
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Construction and Dimensions

Stranding

Lay Length
2.125 in

Conductor DCR

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

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

Frequency [MHz]	Max. Insertion Loss (Attenuation)	Max./Min. Input Impedance (unFitted)
	0.091 dB/100ft	100 Ohm
0.03125 MHz		
0.039 MHz		
0.039 MHz		

Current

Element	Max. Recommended Current [A]
Per Conductor	8 Amps

Voltage

UL Voltage Rating
300V RMS

Oil Resistance:	Yes
UV Resistance:	Yes

Applicable Standards & Environmental Programs

CEC/C(UL) Specification:	CM
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
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

Standards

NEC/(UL) Specification:	CM, ITC, PLTC
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Flame Test

UL Flammability:	UL1685 UL Loading
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Safety

UL Voltage Rating:	300 V RMS
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Suitability

Suitability - Burial:	Yes - UL
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Suitability - Sunlight Resistance:	Yes

Mechanical Characteristics

Operating Temp Range:	-30°C To +90°C
Bulk Cable Weight:	79(lbs)
Max Recommended Pulling Tension:	84(lbs)
Min Bend Radius/Minor Axis:	3.4(in)

Temperature Range

UL Temp Rating:	90°C
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Plenum/Non-Plenum

Plenum (Y/N):	No
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History

Variants

Item #	Color
1335A 0061000	BLUE, LIGHT
1335A 0031000	ORANGE

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Mouser Electronics

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