

## 1336A Multi-Conductor - DataBus® ISA/SP-50 FOUNDATION Fieldbus or PROFIBUS Cable



For more Information  
please call

1-800-Belden1



### General Description:

1 pair, 14 AWG stranded (7x22) tinned copper conductors, polyolefin insulation, Beldfoil® shield (100% coverage) plus a tinned copper braid shield (65% coverage), tinned copper drain wire, oil-resistant PVC jacket.

### Physical Characteristics (Overall)

#### Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material
1	14	7x22	TC - Tinned Copper

Total Number of Conductors: 2

#### Insulation

Insulation Material:

Insulation Material
PO - Polyolefin

#### Outer Shield

Outer Shield Material:

Layer #	Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
1	Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100
2		Braid	TC - Tinned Copper	65

Outer Shield Drain Wire AWG:

AWG	Stranding	Drain Wire Conductor Material
18	7x26	TC - Tinned Copper

#### Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Outer Jacket Ripcord: Yes

#### Overall Cable

Overall Nominal Diameter: 10.922 mm

#### Pair

Pair Color Code Chart:

Number	Color
1	Blue & Orange

Pair Lay Length & Direction:

Lay Length (mm)
114.3

### Mechanical Characteristics (Overall)

Operating Temperature Range: -30°C To +90°C

UL Temperature Rating: 90°C

Max. Recommended Pulling Tension: 582.714 N

Min. Bend Radius/Minor Axis: 109.220 mm

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

EU Directive 2011/65/EU (ROHS II): Yes

EU CE Mark: Yes

EU Directive 2000/53/EC (ELV): Yes

EU Directive 2002/95/EC (RoHS): Yes

## METRIC MEASUREMENT VERSION

### 1336A Multi-Conductor - DataBus® ISA/SP-50 FOUNDATION Fieldbus or PROFIBUS Cable

EU RoHS Compliance Date (mm/dd/yyyy):	09/05/2006
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

#### Flame Test

UL Flame Test:	UL1685 UL Loading
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#### Suitability

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

#### Plenum/Non-Plenum

Plenum (Y/N):	No
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### Electrical Characteristics (Overall)

#### Unaveraged Impedance:

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Impedance (Ohm)
	.03125			100

#### Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)
147.645

#### Nom. Mutual Capacitance:

Capacitance (pF/m)
78.744

#### Maximum Capacitance Unbalance:

Capacitance (pF/m)
3.9372

#### Nominal Velocity of Propagation:

VP (%)
66

#### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
8.2025

#### Maximum Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)
16.0769

#### Nom. Attenuation:

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Attenuation (dB/100m)
	.039			0.203422

#### Max. Attenuation:

()	Freq. (MHz)	Attenuation (dB/100m)
0.298571	0.039	0.299

#### Max. Operating Voltage - UL:

Voltage
300 V RMS

#### Max. Recommended Current:

Description	Current
Per Conductor	5.2 Amps

Other Electrical Characteristic 1: Max Propagation Delay Change From 7.812 kHz to 39.06 kHz: 518 pS/ft

Other Electrical Characteristic 2: 31.25 KBits/sec

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1336A 0031000	1,000 FT	103.000 LB	ORANGE	C	1 PR #14 PP SH FRPVC
1336A 0031640	1,640 FT	170.560 LB	ORANGE	C	1 PR #14 PP SH FRPVC
1336A 0061640	1,640 FT	170.560 LB	BLUE, LIGHT	C	1 PR #14 PP SH FRPVC
1336A 0063280	3,280 FT	350.960 LB	BLUE, LIGHT	C	1 PR #14 PP SH FRPVC
1336A 006394	394 FT	40.976 LB	BLUE, LIGHT	C	1 PR #14 PP SH FRPVC

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**Notes:**

C = CRATE REEL PUT-UP.

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