

## 1363A Multi-Conductor - DataBus® ISA/SP-50 FOUNDATION Fieldbus or PROFIBUS Cable



For more Information  
please call

1-800-Belden1



### General Description:

8 pair, 16 AWG stranded (7x24) tinned copper conductos, polyolefin insulation, individual and overall Beldfoil® shield (100% coverage), tinned copper drain wire, oil-resistant PVC jacket.

### Physical Characteristics (Overall)

#### Conductor

##### AWG:

# Pairs	AWG	Stranding	Conductor Material	Dia. (mm)
8	16	7x24	TC - Tinned Copper	2.921

Total Number of Conductors: 16

#### Insulation

##### Insulation Material:

Insulation Material
PO - Polyolefin

#### Inner Shield

##### Inner Shield Material:

Inner Shield Trade Name	Type	Inner Shield Material	Coverage (%)
Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100

##### Inner Shield Drain Wire AWG:

AWG	Stranding	Conductor Material
20	7x28	TC - Tinned Copper

#### Outer Shield

##### Outer Shield Material:

Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100

##### Outer Shield Drain Wire AWG:

AWG	Stranding	Drain Wire Conductor Material
16	7x24	TC - Tinned Copper

#### Outer Jacket

##### Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Outer Jacket Ripcord: Yes

#### Overall Cable

Overall Nominal Diameter: 23.114 mm

#### Pair

##### Pair Color Code Chart:

Number	Color
1	Blue & Orange Numbered 1
2	Blue & Orange Numbered 2
3	Blue & Orange Numbered 3
4	Blue & Orange Numbered 4
5	Blue & Orange Numbered 5

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6	Blue & Orange Numbered 6
7	Blue & Orange Numbered 7
8	Blue & Orange Numbered 8

**Pair Lay Length & Direction:**

Lay Length (mm)	Twists (twist/m)
63.500	16.405

### Mechanical Characteristics (Overall)

<b>Operating Temperature Range:</b>	-40°C To +105°C
<b>UL Temperature Rating:</b>	105°C
<b>Bulk Cable Weight:</b>	535.752 Kg/Km
<b>Max. Recommended Pulling Tension:</b>	2539.922 N
<b>Min. Bend Radius/Minor Axis:</b>	231.140 mm

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

<b>NEC/(UL) Specification:</b>	CMG, CMX-Outdoor, ITC, PLTC-ER
<b>CEC/C(UL) Specification:</b>	CMG
<b>EU Directive 2011/65/EU (ROHS II):</b>	Yes
<b>EU CE Mark:</b>	Yes
<b>EU Directive 2000/53/EC (ELV):</b>	Yes
<b>EU Directive 2002/95/EC (RoHS):</b>	Yes
<b>EU RoHS Compliance Date (mm/dd/yyyy):</b>	09/01/2006
<b>EU Directive 2002/96/EC (WEEE):</b>	Yes
<b>EU Directive 2003/11/EC (BFR):</b>	Yes
<b>CA Prop 65 (CJ for Wire &amp; Cable):</b>	Yes
<b>MII Order #39 (China RoHS):</b>	Yes

#### Flame Test

<b>UL Flame Test:</b>	UL1685 FT4 Loading
<b>IEC Flame Test:</b>	60332-3-24 (Category C)
<b>IEEE Flame Test:</b>	1202

#### Suitability

<b>Suitability - Indoor:</b>	Yes
<b>Suitability - Outdoor:</b>	Yes
<b>Sunlight Resistance:</b>	Yes
<b>Oil Resistance:</b>	Yes

#### Plenum/Non-Plenum

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

#### Unaveraged Impedance:

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

#### Nom. Inductance:

Inductance (µH/m)
0.62339

#### Nom. Capacitance Conductor to Shield:

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**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)**

13.780

**Nominal Outer Shield DC Resistance:**

**DCR @ 20°C (Ohm/km)**

16.0769

**Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C:** 24.608 Ohm/km

**Nom. Attenuation:**

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Attenuation (dB/100m)
	.039			0.26248

**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
1363A 0031000	1,000 FT	405.000 LB	ORANGE		8 FS PR #16 PO FS FRPVC

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## METRIC MEASUREMENT VERSION

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determining the applicability of legislation and regulations based on their individual usage of the product. Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 2014/35/EU).