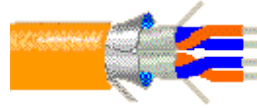


## 1327A Multi-Conductor - DataBus® ISA/SP-50 FOUNDATION Fieldbus or PROFIBUS Cable



For more Information  
please call

1-800-Belden1



### Description:

2 pair, 18 AWG stranded (7x26) tinned copper conductors, polyolefin insulation, individual & overall Beldfoil® shield (100% coverage), tinned copper drain wire, oil-resistant PVC jacket.

### Physical Characteristics (Overall)

#### Conductor

##### AWG:

# Pairs	AWG	Stranding	Conductor Material	Dia. (in.)
2	18	7x26	TC - Tinned Copper	.048

#### 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
20

#### 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
18	7x26	TC - Tinned Copper

#### Outer Jacket

##### Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

#### Overall Cabling

Overall Nominal Diameter: 0.440 in.

#### Pair

##### Pair Color Code Chart:

Number	Color
1	Blue & Orange Numbered 1
2	Blue & Orange Numbered 2

##### Pair Lay Length & Direction:

Lay Length (in.)	Twists/ft. (twist/ft)
2.250	5.300

## 1327A Multi-Conductor - DataBus® ISA/SP-50 FOUNDATION Fieldbus or PROFIBUS Cable

### Mechanical Characteristics (Overall)

Operating Temperature Range:	-30°C To +90°C
UL Temperature Rating:	90°C
Max. Recommended Pulling Tension:	137 lbs.
Min. Bend Radius (Install)/Minor Axis:	4.400 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMG, ITC, PLTC
CEC/C(UL) Specification:	CMG
EU CE Mark:	Yes
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	09/01/2006
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 FT4 Loading
IEC Flame Test:	60332-3-24 (Category C)
IEEE Flame Test:	1202

#### 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. Inductance:

Inductance (µH/ft)	.19
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#### Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)	45.0
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#### Nom. Mutual Capacitance:

Capacitance (pF/ft)	24.0
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#### Maximum Capacitance Unbalance:

Capacitance (pF/ft)	1.2
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#### Nominal Velocity of Propagation:

VP (%)	
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## 1327A Multi-Conductor - DataBus® ISA/SP-50 FOUNDATION Fieldbus or PROFIBUS Cable

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**Nom. Conductor DC Resistance:**

DCR @ 20°C (Ohm/1000 ft)
5.86

**Nominal Outer Shield DC Resistance:**

DCR @ 20°C (Ohm/1000 ft)
4.9

**Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C:** 7.500 Ohm/1000 ft

**Nom. Attenuation:**

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Attenuation (dB/100 ft.)
	.039			.08

**Max. Attenuation:**

()	Freq. (MHz)	Attenuation (dB/100 ft.)
.091	0.039	0.091

**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
1327A 0031000	1,000 FT	93.000 LB	ORANGE	C	2 FS PR #18 PP FS FRPVC
1327A 0031640	1,640 FT	152.520 LB	ORANGE	C	2 FS PR #18 PP FS FRPVC
1327A 0061000	1,000 FT	93.000 LB	BLUE, LIGHT	C	2 FS PR #18 PP FS FRPVC
1327A 0061640	1,640 FT	152.520 LB	BLUE, LIGHT	C	2 FS PR #18 PP FS FRPVC

**Notes:**

C = CRATE REEL PUT-UP.

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