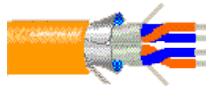


## 1327A Multi-Conductor - DataBus® ISA/SP-50 FOUNDATION Fieldbus or PROFIBUS Cable



For more Information  
please call

1-800-Belden1



### General 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. (mm)
2	18	7x26	TC - Tinned Copper	1.2192

Total Number of Conductors: 4

#### 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 Cable

Overall Nominal Diameter: 11.176 mm

#### Pair

Pair Color Code Chart:

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

Pair Lay Length & Direction:

Lay Length (mm)	Twists (twist/m)
57.15	17.389

### Mechanical Characteristics (Overall)

Operating Temperature Range: -40°C To +105°C

UL Temperature Rating: 105°C

Max. Recommended Pulling Tension: 609.403 N

Min. Bend Radius/Minor Axis: 111.760 mm

### Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

## METRIC MEASUREMENT VERSION

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

NEC/(UL) Specification:	CMG, CMX-Outdoor, ITC, PLIC-ER
CEC/C(UL) Specification:	CMG
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
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:

<b>Inductance (µH/m)</b>
0.62339

##### Nom. Capacitance Conductor to Shield:

<b>Capacitance (pF/m)</b>
147.645

##### Nom. Mutual Capacitance:

<b>Capacitance (pF/m)</b>
78.744

##### Maximum Capacitance Unbalance:

<b>Capacitance (pF/m)</b>
3.9372

##### Nominal Velocity of Propagation:

<b>VP (%)</b>
66

##### Nom. Conductor DC Resistance:

<b>DCR @ 20°C (Ohm/km)</b>
19.2267

##### Nominal Outer Shield DC Resistance:

<b>DCR @ 20°C (Ohm/km)</b>
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:

<b>Voltage</b>
300 V RMS

## METRIC MEASUREMENT VERSION

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

#### 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	98.000 LB	ORANGE	C	2 FS PR #18 PP FS FRPVC
1327A 0061000	1,000 FT	88.000 LB	BLUE, LIGHT	C	2 FS PR #18 PP FS FRPVC
1327A 0061640	1,640 FT	147.600 LB	BLUE, LIGHT	C	2 FS PR #18 PP FS FRPVC

#### Notes:

C = CRATE REEL PUT-UP.

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