Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION



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



Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs



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.

belulone siliela (100 % coverage), tillilea copper dialit wire, oil-resistant F v C jacket.
Physical Characteristics (Overall)
Conductor AWG:
Pairs AWG Stranding Conductor Material Dia. (in.)
2 18 7x26 TC - Tinned Copper .048
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: 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 (twist/ft)
2.250 5.300
Mechanical Characteristics (Overall)
Operating Temperature Range: -40°C To +105°C
UL Temperature Rating: 105°C
Max. Recommended Pulling Tension: 137 lbs.
Min. Bend Radius/Minor Axis: 4.400 in.

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NEC/(UL) Specification:	CMG, CMX-Outdoor, ITC, PLTC-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			
Electrical Characteristics (Overall)				
Unaveraged Impedance:				
Description Freq. (MHz) Start Freq. (MHz) Stop Freq. (MHz) Impe	dance (Ohm)			
.03125				
.03125 100 Nom. Inductance: Inductance (µH/ft) .19				
Inductance: Inductance (µH/ft) Inductance Conductor to Shield:				
.03125 100 Nom. Inductance: Inductance (µH/ft) .19				
Inductance: Inductance (µH/ft) I				
Inductance: Inductance (µH/ft) .19 Nom. Capacitance Conductor to Shield: Capacitance (pF/ft) 45.0 Nom. Mutual Capacitance: Capacitance (pF/ft)				
Inductance: Inductance (µH/ft) I				
Inductance: Inductance (µH/ft) 19 Nom. Capacitance Conductor to Shield: Capacitance (pF/ft) 45.0 Nom. Mutual Capacitance: Capacitance (pF/ft) 24.0 Maximum Capacitance Unbalance: Capacitance (pF/ft)				
Inductance: Inductance (µH/ft) .19 Nom. Capacitance Conductor to Shield: Capacitance (pF/ft) 45.0 Nom. Mutual Capacitance: Capacitance (pF/ft) 24.0 Maximum Capacitance Unbalance: Capacitance (pF/ft) 1.2				
Inductance: Inductance (µH/ft) 19 Nom. Capacitance Conductor to Shield: Capacitance (pF/ft) 45.0 Nom. Mutual Capacitance: Capacitance (pF/ft) 24.0 Maximum Capacitance Unbalance: Capacitance (pF/ft)				
Inductance: Inductance (µH/ft) .19 Nom. Capacitance Conductor to Shield: Capacitance (pF/ft) 45.0 Nom. Mutual Capacitance: Capacitance (pF/ft) 24.0 Maximum Capacitance Unbalance: Capacitance (pF/ft) 1.2 Nominal Velocity of Propagation:				
Nom. Inductance: Inductance (µH/ft) .19 Nom. Capacitance Conductor to Shield: Capacitance (pF/ft) 45.0 Nom. Mutual Capacitance: Capacitance (pF/ft) 24.0 Maximum Capacitance Unbalance: Capacitance (pF/ft) 1.2 Nominal Velocity of Propagation: VP (%) 66 Nom. Conductor DC Resistance:				
Inductance: Inductance (µH/ft) .19 Nom. Capacitance Conductor to Shield: Capacitance (pF/ft) 45.0 Nom. Mutual Capacitance: Capacitance (pF/ft) 24.0 Maximum Capacitance Unbalance: Capacitance (pF/ft) 1.2 Nominal Velocity of Propagation: VP (%) 66				
Nom. Inductance: Inductance (µH/ft) .19 Nom. Capacitance Conductor to Shield: Capacitance (pF/ft) 45.0 Nom. Mutual Capacitance: Capacitance (pF/ft) 24.0 Maximum Capacitance Unbalance: Capacitance (pF/ft) 1.2 Nominal Velocity of Propagation: VP (%) 66 Nom. Conductor DC Resistance: DCR @ 20°C (Ohm/1000 ft)				
Nom. Inductance: Inductance (µH/ft) .19 Nom. Capacitance Conductor to Shield: Capacitance (pF/ft) 45.0 Nom. Mutual Capacitance: Capacitance (pF/ft) 24.0 Maximum Capacitance Unbalance: Capacitance (pF/ft) 1.2 Nominal Velocity of Propagation: VP (%) 66 Nom. Conductor DC Resistance: DCR @ 20°C (Ohm/1000 ft) 5.86 Nominal Outer Shield DC Resistance: DCR @ 20°C (Ohm/1000 ft)				
Nom. Inductance: Inductance (µH/ft) .19 Nom. Capacitance Conductor to Shield: Capacitance (pF/ft) 45.0 Nom. Mutual Capacitance: Capacitance (pF/ft) 24.0 Maximum Capacitance Unbalance: Capacitance (pF/ft) 1.2 Nominal Velocity of Propagation: VP (%) 66 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				
Nom. Inductance: Inductance (µH/ft) .19 Nom. Capacitance Conductor to Shield: Capacitance (pF/ft) 45.0 Nom. Mutual Capacitance: Capacitance (pF/ft) 24.0 Maximum Capacitance Unbalance: Capacitance (pF/ft) 1.2 Nominal Velocity of Propagation: VP (%) 66 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. Inductance: Inductance (µH/ft) .19 Nom. Capacitance Conductor to Shield: Capacitance (pF/ft) 45.0 Nom. Mutual Capacitance: Capacitance (pF/ft) 24.0 Maximum Capacitance Unbalance: Capacitance (pF/ft) 1.2 Nominal Velocity of Propagation: VP (%) 66 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	7.500 Ohm/1000 ft			
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Nom. Inductance: Inductance (µH/ft) .19 Nom. Capacitance Conductor to Shield: Capacitance (pF/ft) 45.0 Nom. Mutual Capacitance: Capacitance (pF/ft) 24.0 Maximum Capacitance Unbalance: Capacitance (pF/ft) 1.2 Nominal Velocity of Propagation: VP (%) 66 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: Nom. Attenuation: Description Freq. (MHz) Start Freq. (MHz) Stop Freq. (MHz) Atten	7.500 Ohm/1000 ft			

Voltage

Voltage 300 V RMS

Max. Operating Voltage - UL:

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

Notes:

C = CRATE REEL PUT-UP.

Revision Date: 04-25-2012 Revision Number: 1

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