

1335A Multi-Conductor - DataBus® ISA/SP-50 FOUNDATION Fieldbus or PROFIBUS Cable



For more Information
please call

1-800-Belden1



General Description:

1 pair, 16 AWG stranded (7x24) 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	16	7x24	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
20	7x28		TC - Tinned Copper

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Outer Jacket Ripcord: Yes

Overall Cable

Overall Nominal Diameter: 9.830 mm

Pair

Pair Color Code Chart:

Number	Color
1	Blue & Orange

Pair Lay Length & Direction:

Lay Length (mm)
53.975

Mechanical Characteristics (Overall)

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

UL Temperature Rating: 90°C

Bulk Cable Weight: 117.568 Kg/Km

Max. Recommended Pulling Tension: 373.649 N

Min. Bend Radius/Minor Axis: 98.425 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CM, ITC, PLTC

CEC/C(UL) Specification: CM

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

METRIC MEASUREMENT VERSION

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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):	09/05/2006
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)
13.780

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			0.216546

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	8 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
1335A 0031000	1,000 FT	84.000 LB	ORANGE	C	1 PR #16 PP SH FRPVC

METRIC MEASUREMENT VERSION

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1335A 0061000	1,000 FT	84.000 LB	BLUE, LIGHT	C	1 PR #16 PP SH FRPVC
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Notes:

C = CRATE REEL PUT-UP.

Revision Number: 1 Revision Date: 04-02-2015

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