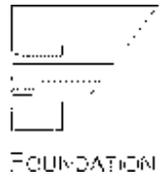


METRIC MEASUREMENT VERSION

1359A Multi-Conductor - DataBus® ISA/SP-50 FOUNDATION Fieldbus or PROFIBUS Cable



For more Information
please call

1-800-Belden1



General Description:

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

Physical Characteristics (Overall)

Conductor

AWG:

Pairs

50

Total Number of Conductors: 100

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
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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
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Outer Jacket

Outer Jacket Material:

Outer Jacket Material

PVC - Polyvinyl Chloride

Outer Jacket Ripcord: Yes

Overall Cable

Overall Nominal Diameter: 39.370 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

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5	Blue & Orange Numbered 5
6	Blue & Orange Numbered 6
7	Blue & Orange Numbered 7
8	Blue & Orange Numbered 8
9	Blue & Orange Numbered 9
10	Blue & Orange Numbered 10
11	Blue & Orange Numbered 11
12	Blue & Orange Numbered 12
13	Blue & Orange Numbered 13
14	Blue & Orange Numbered 14
15	Blue & Orange Numbered 15
16	Blue & Orange Numbered 16
17	Blue & Orange Numbered 17
18	Blue & Orange Numbered 18
19	Blue & Orange Numbered 19
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39	Blue & Orange Numbered 39
40	Blue & Orange Numbered 40
41	Blue & Orange Numbered 41
42	Blue & Orange Numbered 42
43	Blue & Orange Numbered 43
44	Blue & Orange Numbered 44
45	Blue & Orange Numbered 45
46	Blue & Orange Numbered 46
47	Blue & Orange Numbered 47
48	Blue & Orange Numbered 48
49	Blue & Orange Numbered 49
50	Blue & Orange Numbered 50

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
Bulk Cable Weight:	1785.840 Kg/Km
Max. Recommended Pulling Tension:	12864.194 N
Min. Bend Radius/Minor Axis:	393.700 mm

1359A Multi-Conductor - DataBus® ISA/SP-50 FOUNDATION Fieldbus or PROFIBUS Cable

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMG, CMX-Outdoor, ITC, PLTC-ER
CEC/C(UL) Specification:	PLTC
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):	02/19/2010
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 Vertical Tray Flame Test
IEC Flame Test:	60332-3-24 (Category C)

Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Sunlight Resistance:	Yes
Oil 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/m)	0.62339
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Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)	147.645
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Nom. Mutual Capacitance:

Capacitance (pF/m)	78.744
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Maximum Capacitance Unbalance:

Capacitance (pF/m)	3.9372
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Nominal Velocity of Propagation:

VP (%)	66
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Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)	19.2267
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Nominal Outer Shield DC Resistance:

METRIC MEASUREMENT VERSION

1359A Multi-Conductor - DataBus® ISA/SP-50 FOUNDATION Fieldbus or PROFIBUS Cable

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
1359A 0031000	1,000 FT	715.000 LB	ORANGE	C	50 FS PR #18 PP FS FRPVC

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 0 Revision Date: 04-25-2012

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