ENGLISH MEASUREMENT VERSION



3076F Multi-Conductor - DataBus® ISA/SP-50 FOUNDATION Fieldbus or PROFIBUS Cable





For more Information please call

1-800-Belden1



Description:

1 pair 18 AWG stranded (7x26) tinned copper conductors, polyolefin insulation, polyolefin filler, Beldfoil® shield (100% coverage), tinned copper drain wire, binder, PVC jacket. Fieldbus Foundation Registered Product.

Physical Characteristics (Overall)

Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material	Dia. (in.)
1	18	7x26	TC - Tinned Copper	0.046

Insulation

Insulation Material:



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
20	7x28	TC - Tinned Copper

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Outer Jacket Diameter:

Nom. Dia. (in.) 0.292

Overall Cabling

Overall Cabling Fillers: Polypropylene

Overall Cabling Lay Length & Direction:

Mechanical Characteristics (Overall)

Max. Recommended Pulling Tension:

Length (in.) Twists (ft.) 2.250 5.300

,			
Operating Temperature Range:	-40°C To +105°C		
UL Temperature Rating:	105°C		
Bulk Cable Weight:	38 lbs/1000 ft.		

60 lbs.

Min. Bend Radius (Install)/Minor Axis: 2.500 in

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3076F Multi-Conductor - DataBus® ISA/SP-50 FOUNDATION Fieldbus or PROFIBUS Cable

Applicable Specifications and Agency Compliance (Overall)					
Applicable Standards & Environmental Progr					
NEC/(UL) Specification:	ITC, PLTC-ER				
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):	01/01/2004				
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:	UL1666 Riser				
C(UL) Flame Test:	FT4				
Suitability					
Suitability - Indoor:	Yes				
Suitability - Outdoor:	Yes				
Suitability - Burial:	Yes - UL				
Sunlight Resistance:	Yes				
Oil Resistance:	Yes				
Plenum/Non-Plenum					
Plenum (Y/N):	No				

Electrical Characteristics (Overall)

Unaveraged Impedance:

Freq. (MHz) Impedance (Ohm)
0.031 | 100.000 |

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) 1.200

Nominal Velocity of Propagation:

VP (%) 66

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft) 5.86

Nominal Outer Shield DC Resistance:

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ENGLISH MEASUREMENT VERSION



3076F Multi-Conductor - DataBus® ISA/SP-50 FOUNDATION Fieldbus or PROFIBUS Cable

DCR @ 20°C (Ohm/1000 ft)

Nom. Attenuation:

Freq. (MHz) Attenuation (dB/100 ft.) 0.039 0.080

Max. Attenuation:

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

Max. Operating Voltage - UL:

Voltage 300 V RMS

Max. Recommended 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

Notes (Overall)

Notes: Fieldbus: Orange jacket. Profibus PA: Intrinsically Safe Blue jacket. Jacket diameter tolerance: +/- .010

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
3076F 0031000	1,000 FT	48.000 LB	ORANGE	С	TWPR #18 PP FS PVC
3076F 003250	250 FT	14.000 LB	ORANGE	С	TWPR #18 PP FS PVC
3076F 0032500	2,500 FT	117.500 LB	ORANGE	С	TWPR #18 PP FS PVC
3076F 003500	500 FT	25.500 LB	ORANGE	С	TWPR #18 PP FS PVC
3076F 0035000	5,000 FT	245.000 LB	ORANGE	CN	TWPR #18 PP FS PVC
3076F 0061000	1,000 FT	48.000 LB	BLUE, LIGHT	С	TW PR #18 PP FS PVC

Notes:

C = CRATE REEL PUT-UP

N = FINAL PUT-UP LENGTH MAY VARY -0% TO +10% FROM LENGTH SHOWN.

Revision Number: 5 Revision Date: 02-24-2010

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ENGLISH MEASUREMENT VERSION



183076F Multi-Conductor - Cont. Armor DataBus® ISA/SP-50 FOUNDATION Fieldbus/Profibus





For more Information please call

1-800-Belden1



Description:

18 AWG stranded (7x26) tinned copper conductors, polyolefin insulation, Beldfoil® shield (100% coverage), tinned copper drain wire, binder, oil & sunilight resistant PVC inner jacket, continuous corrugated aluminum armor, PVC outer jacket.

Physical Characteristics (Overall)

Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material	Dia. (in.)
1	18	7x26	TC - Tinned Copper	.048

Insulation

Insulation Material:

Insulation Material
PO - Polyolefin

Outer Shield

Outer Shield Material:

Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
Beldfoil®	Таре	Aluminum Foil-Polyester Tape	100

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 over Armor (y/n):

Outer Jacket over Armor

Outer Jacket Material Over Armor:

OJ Over Armor Material
PVC - Polyvinyl Chloride

Outer Jacket Wall Thickness Over Armor: .055

Armor

	Armor Type:	Continuously Corrugated			
	Armor Material:	Aluminum			
	Armor Thickness:	.021			
	Diameter over Armor:	.452			
Ov	Overall Cabling				

-

Overall Nominal Diameter: 0.562 in.

Pair

Pair Color Code Chart:

Number Color

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183076F Multi-Conductor - Cont. Armor DataBus® ISA/SP-50 FOUNDATION Fieldbus/Profibus

Pair Lay Length & Direction:

Lay Length (in.) 2.250

Med	Mechanical Characteristics (Overall)					
	Operating Temperature Range:	-40°C To +105°C				
	UL Temperature Rating:	105°C				
	Bulk Cable Weight:	145 lbs/1000 ft.				
	Max. Recommended Pulling Tension:	59 lbs.				
	Min. Bend Radius (Install)/Minor Axis:	6.800 in.				

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	ITC, PLTC
CEC/C(UL) Specification:	CM
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):	04/18/2006
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
ame Test	

Flai

UL Flame Test: UL1685 UL Loading

Suitability

Suitability - Indoor:	Yes	
Suitability - Outdoor:	Yes	
Sunlight Resistance:	Yes	
Oil Resistance:	Yes	
num/Non-Planum		

Plenum/Non-Plenum

Plenum (Y/N): No

Electrical Characteristics (Overall)

Unaveraged Impedance:

Descriptio	n Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Impedance (Ohm)
	.03125			100

Nom. Inductance:

Inductance (µH/ft)

Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)

Nom. Mutual Capacitance:

Capacitance (pF/ft)

Maximum Average Capacitance Unbalance:

ENGLISH MEASUREMENT VERSION



183076F Multi-Conductor - Cont. Armor DataBus® ISA/SP-50 FOUNDATION Fieldbus/Profibus

Capacitance (pF/ft)

Nominal Velocity of Propagation:

66

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft) 5.86

Ind. Pair Nominal Shield DC Resistance @ 20

7.500 Ohm/1000 ft

Deg. C:

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

Max Propagation Delay Change From 7.812 kHz to 39.06 kHz: 518 pF/ft Other Electrical Characteristic 1:

Other Electrical Characteristic 2: 31.25 KBits/sec

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
183076F 0032000	2,000 FT	240.000 LB	ORANGE	CZ	ARMORED TWPR #18 PP FS PVC

Notes:

C = CRATE REFL PUT-UP

Z = FINAL PUT-UP LENGTH MAY VARY (+ OR -) 10% FOR SPOOLS OR REELS AND(+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN.

Revision Number: 2 Revision Date: 08-19-2009

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ENGLISH MEASUREMENT VERSION



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	Туре	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

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

echanical 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.
oplicable Specifications and Agency Co	ompliance (Overall)
pplicable Standards & Environmental Progr	rams
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
lame Test	
UL Flame Test:	UL1685 FT4 Loading
IEC Flame Test:	60332-3-24 (Category C)
IEEE Flame Test:	1202
uitability	
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Sunlight Resistance:	Yes
lenum/Non-Plenum	
Plenum (Y/N):	No

Electrical Characteristics (Overall)

Unaveraged Impedance:

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Impedance (Ohm)
	.03125			100

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 (%)

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ENGLISH MEASUREMENT VERSION



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

66

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

Ind. Pair Nominal Shield DC Resistance @ 20

7.500 Ohm/1000 ft

Deg. C:

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

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 1 Revision Date: 09-19-2008

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ENGLISH MEASUREMENT VERSION



1328A Multi-Conductor - DataBus® ISA/SP-50 FOUNDATION Fieldbus or PROFIBUS Cable





For more Information please call

1-800-Belden1



Description:

5 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.)
5	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	Stranding	Conductor Material
20	7x28	TC - Tinned Copper

Outer Shield

Outer Shield Material:

Outer Shield Trade Name	Туре	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

Outer Jacket Ripcord: Yes

Overall Cabling

Overall Nominal Diameter: 0.550 in.

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
5	Blue & Orange Numbered 5

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1328A Multi-Conductor - DataBus® ISA/SP-50 FOUNDATION Fieldbus or PROFIBUS Cable

Pair Lay Length & Direction:

Lay Length (in.) Twists/ft. (twist/ft)
2.000 | 6.000

Mechanical Characteristics (Overall)	
Operating Temperature Range:	-30°C To +90°C
UL Temperature Rating:	90°C
Max. Recommended Pulling Tension:	309 lbs.
Min. Bend Radius (Install)/Minor Axis:	5.500 in.
Applicable Specifications and Agency C	compliance (Overall)
Applicable Standards & Environmental Programment	
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

Yes

No

Electrical Characteristics (Overall)

Unaveraged Impedance:

Oil Resistance:

Plenum/Non-Plenum Plenum (Y/N):

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Impedance (Ohm)
	.03125			100

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)

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ENGLISH MEASUREMENT VERSION



1328A Multi-Conductor - DataBus® ISA/SP-50 FOUNDATION Fieldbus or PROFIBUS Cable

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

7.500 Ohm/1000 ft

Deg. C:

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:

DescriptionCurrentPer Conductor5.2 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
1328A 0031000	1,000 FT	164.000 LB	ORANGE	С	5 FS PR #18 PP FS FRPVC
1328A 0031640	1,640 FT	288.640 LB	ORANGE	С	5 FS PR #18 PP FS FRPVC
1328A 0061000	1,000 FT	164.000 LB	BLUE, LIGHT	С	5 FS PR #18 PP FS FRPVC
1328A 0061640	1,640 FT	288.640 LB	BLUE, LIGHT	С	5 FS PR #18 PP FS FRPVC

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 1 Revision Date: 09-19-2008

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ENGLISH MEASUREMENT VERSION



1329A Multi-Conductor - DataBus® ISA/SP-50 FOUNDATION Fieldbus or PROFIBUS Cable





For more Information please call

1-800-Belden1



Description:

8 pair, 18 AWG stranded (7x26) tinned copper conductos, polyolefin insulation, individual and 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.)
8	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	Stranding	Conductor Material
20	7x28	TC - Tinned Copper

Outer Shield

Outer Shield Material:

Outer Shield Trade Name	Туре	Outer Shield Material	Coverage (%)
Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100

Outer Shield Drain Wire AWG:

	AWG	Stranding	Drain Wire Conductor Material
ı	18	7x26	TC - Tinned Copper

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Outer Jacket Ripcord: Yes

Overall Cabling

Overall Nominal Diameter: 0.670 in.

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
5	Blue & Orange Numbered 5
6	Blue & Orange Numbered 6

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1329A Multi-Conductor - DataBus® ISA/SP-50 FOUNDATION Fieldbus or PROFIBUS Cable

7	Blue & Orange Numbered 7
8	Blue & Orange Numbered 8

Pair Lay Length & Direction:

Lay Length (in.)	Twists/ft. (twist/f	t)
2.000	6.000	

Mechanical Characteristics (Overall)	
Operating Temperature Range:	-30°C To +90°C
UL Temperature Rating:	90°C
Max. Recommended Pulling Tension:	481 lbs.
Min. Bend Radius (Install)/Minor Axis:	6.700 in.
Applicable Specifications and Agency Co	ompliance (Overall)
Applicable Standards & Environmental Prog	
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
Oil Resistance:	Yes
Plenum/Non-Plenum	
Plenum (Y/N):	No

Electrical Characteristics (Overall)

Unaveraged Impedance:

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Impedance (Ohm)
	.03125			100

Nom. Inductance:

Inductance (µH/ft)
.19

Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft) 45.0

Nom. Mutual Capacitance:

Capacitance (pF/ft) 24.0

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1329A Multi-Conductor - DataBus® ISA/SP-50 FOUNDATION Fieldbus or PROFIBUS Cable

Maximum Capacitance Unbalance:

Capacitance (pF/ft)

Nominal Velocity of Propagation:

66

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

Ind. Pair Nominal Shield DC Resistance @ 20

7.500 Ohm/1000 ft

Deg. C:

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:

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
1329A 0031000	1,000 FT	295.000 LB	ORANGE	С	8 FS PR #18 PP FS FRPVC
1329A 0031640	1,640 FT	441.160 LB	ORANGE	С	8 FS PR #18 PP FS FRPVC
1329A 0061000	1,000 FT	295.000 LB	BLUE, LIGHT	С	8 FS PR #18 PP FS FRPVC
1329A 0061640	1,640 FT	441.160 LB	BLUE, LIGHT	С	8 FS PR #18 PP FS FRPVC

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 1 Revision Date: 09-19-2008

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ENGLISH MEASUREMENT VERSION



1329A Multi-Conductor - DataBus® ISA/SP-50 FOUNDATION Fieldbus or PROFIBUS Cable

Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.

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ENGLISH MEASUREMENT VERSION



1330A Multi-Conductor - DataBus® ISA/SP-50 FOUNDATION Fieldbus or PROFIBUS Cable





For more Information please call

1-800-Belden1



Description:

12 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.)
12	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 Strandin		Conductor Material		
20	7x28	TC - Tinned Copper		

Outer Shield

Outer Shield Material:

Outer Shield	Trade Name T	Гуре	Outer Shield Material	Coverage (%)
Beldfoil®	Т	Гаре	Aluminum Foil-Polyester Tape	100

Outer Shield Drain Wire AWG:

	AWG	Stranding	Drain Wire Conductor Material
ı	18	7x26	TC - Tinned Copper

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Outer Jacket Ripcord: Yes

Overall Cabling

Overall Nominal Diameter: 0.810 in.

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
5	Blue & Orange Numbered 5
6	Blue & Orange Numbered 6

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1330A Multi-Conductor - DataBus® ISA/SP-50 FOUNDATION Fieldbus or PROFIBUS Cable

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

Pair Lay Length & Direction:

Lay Length (in.)	Twists/ft. (twist/ft)
2.000	6.000

echanical Characteristics (Overall)	
Operating Temperature Range:	-30°C To +90°C
UL Temperature Rating:	90°C
Max. Recommended Pulling Tension:	688 lbs.
Min. Bend Radius (Install)/Minor Axis:	8.100 in.
oplicable Specifications and Agency Co	mpliance (Overall)
pplicable Standards & Environmental Progr	ams
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
ame Test	
UL Flame Test:	UL1685 FT4 Loading
IEC Flame Test:	60332-3-24 (Category C)
IEEE Flame Test:	1202
uitability	
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Sunlight Resistance:	Yes
Oil Resistance:	Yes
lenum/Non-Plenum	
Plenum (Y/N):	No

Electrical Characteristics (Overall)

Unaveraged Impedance:

Freq. (MHz) Impedance (Ohm)
0.031 | 100.000

Nom. Inductance:

Inductance (µH/ft)
.19

Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft) 45.0

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ENGLISH MEASUREMENT VERSION



1330A Multi-Conductor - DataBus® ISA/SP-50 FOUNDATION Fieldbus or PROFIBUS Cable

Nom. Mutual Capacitance:

Capacitance (pF/ft)

Maximum Capacitance Unbalance:

Capacitance (pF/ft)

Nominal Velocity of Propagation:

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

Ind. Pair Nominal Shield DC Resistance @ 20

7.500 Ohm/1000 ft

Deg. C:

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:

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
1330A 0031000	1,000 FT	387.000 LB	ORANGE	С	12 FS PR #18 PP FS FRPVC
1330A 0031640	1,640 FT	596.960 LB	BLUE, LIGHT	С	12 FS PR #18 PP FS FRPVC
1330A 0061000	1,000 FT	387.000 LB	BLUE, LIGHT	С	12 FS PR #18 PP FS FRPVC
1330A 0061640	1,640 FT	596.960 LB	BLUE, LIGHT	С	12 FS PR #18 PP FS FRPVC

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 0 Revision Date: 09-19-2008

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ENGLISH MEASUREMENT VERSION



1330A Multi-Conductor - DataBus® ISA/SP-50 FOUNDATION Fieldbus or PROFIBUS Cable

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ENGLISH MEASUREMENT VERSION



1331A Multi-Conductor - DataBus® ISA/SP-50 FOUNDATION Fieldbus or PROFIBUS Cable





For more Information please call

1-800-Belden1



Description:

16 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.)
16	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	Stranding	Conductor Material
20	7x28	TC - Tinned Copper

Outer Shield

Outer Shield Material:

Outer Shield Trade Name	Туре	Outer Shield Material	Coverage (%)
Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100

Outer Shield Drain Wire AWG:

	AWG	Stranding	Drain Wire Conductor Material
ı	18	7x26	TC - Tinned Copper

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Outer Jacket Ripcord: Yes

Overall Cabling

Overall Nominal Diameter: 0.920 in.

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
5	Blue & Orange Numbered 5
6	Blue & Orange Numbered 6

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1331A Multi-Conductor - DataBus® ISA/SP-50 FOUNDATION Fieldbus or PROFIBUS Cable

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

Pair Lay Length & Direction:

Lay Length (in.)	Twists/ft. (twist/ft)
2.000	6.000

Mechanical Characteristics (Overall)

Operating Temperature Range:

UL Temperature Rating:	90°C
Max. Recommended Pulling Tension:	940 lbs.
Min. Bend Radius (Install)/Minor Axis:	9.200 in.
pplicable Specifications and Agency C	Compliance (Overall)
Applicable Standards & Environmental Pro	grams
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

Yes

Yes

Yes

Yes

-30°C To +90°C

Plenum/Non-Plenum Plenum (Y/N):

Oil Resistance:

Suitability - Indoor:

Suitability - Outdoor:

Sunlight Resistance:

Plenum (Y/N): No

Electrical Characteristics (Overall)

Unaveraged Impedance:

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Impedance (Ohm)
	.03125			100

Nom. Inductance:

Inductance (µH/ft)

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ENGLISH MEASUREMENT VERSION



1331A Multi-Conductor - DataBus® ISA/SP-50 FOUNDATION Fieldbus or PROFIBUS Cable

.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

7.500 Ohm/1000 ft

Deg. C:

Nom. Attenuation:

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

Max. Attenuation:

0	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
1331A 0031000	1,000 FT	494.000 LB	ORANGE	С	16 FS PR #18 PP FS FRPVC
1331A 0031640	1,640 FT	790.480 LB	ORANGE	С	16 FS PR #18 PP FS FRPVC
1331A 0061000	1,000 FT	494.000 LB	BLUE, LIGHT	С	16 FS PR #18 PP FS FRPVC
1331A 0061640	1,640 FT	790.480 LB	BLUE, LIGHT	С	16 FS PR #18 PP FS FRPVC

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 1 Revision Date: 09-19-2008

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1331A Multi-Conductor - DataBus® ISA/SP-50 FOUNDATION Fieldbus or PROFIBUS Cable

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ENGLISH MEASUREMENT VERSION



1332A Multi-Conductor - DataBus® ISA/SP-50 FOUNDATION Fieldbus or PROFIBUS Cable





For more Information please call

1-800-Belden1



Description:

20 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.)
20	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	Stranding	Conductor Material
ı	20	7x28	TC - Tinned Copper

Outer Shield

Outer Shield Material:

Outer Shield Trade Name	Туре	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

Outer Jacket Ripcord: Yes

Overall Cabling

Overall Nominal Diameter: 1.020 in.

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
5	Blue & Orange Numbered 5
6	Blue & Orange Numbered 6

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1332A Multi-Conductor - DataBus® ISA/SP-50 FOUNDATION Fieldbus or PROFIBUS Cable

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
20	Blue & Orange Numbered 20

Pair Lay Length & Direction:

Lay Length (in.)	Twists/ft. (twist/ft)
2.000	6.000

Machanical Characteristics (Overall)

Mechanical Characteristics (Overall)	
Operating Temperature Range:	-30°C To +90°C
UL Temperature Rating:	90°C
Max. Recommended Pulling Tension:	1148 lbs.
Min. Bend Radius (Install)/Minor Axis:	10.200 in.
Applicable Specifications and Agency Co	ompliance (Overall)
Applicable Standards & Environmental Prog	rams
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
Oil Resistance:	Yes
Plenum/Non-Plenum	
Plenum (Y/N):	No

Electrical Characteristics (Overall)

Unaveraged Impedance:

Description Freq. (MHz) Start Freq. (MHz) Stop Freq. (MHz) Impedance (Ohm)

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1332A Multi-Conductor - DataBus® ISA/SP-50 FOUNDATION Fieldbus or PROFIBUS Cable

.03125

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

7.500 Ohm/1000 ft

Deg. C:

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:

DescriptionCurrentPer Conductor5.2 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
1332A 0031000	1,000 FT	589.000 LB	ORANGE	С	20 FS PR #18 PP FS FRPVC
1332A 0031640	1,640 FT	936.440 LB	ORANGE	С	20 FS PR #18 PP FS FRPVC
1332A 0061000	1,000 FT	589.000 LB	BLUE, LIGHT	С	20 FS PR #18 PP FS FRPVC
1332A 0061640	1,640 FT	936.440 LB	BLUE, LIGHT	С	20 FS PR #18 PP FS FRPVC

Notes:

C = CRATE REEL PUT-UP.

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1332A Multi-Conductor - DataBus® ISA/SP-50 FOUNDATION Fieldbus or PROFIBUS Cable

Revision Number: 1 Revision Date: 09-19-2008

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Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.

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ENGLISH MEASUREMENT VERSION



1333A Multi-Conductor - DataBus® ISA/SP-50 FOUNDATION Fieldbus or PROFIBUS Cable





For more Information please call

1-800-Belden1



Description:

24 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	AWG	Stranding	Conductor Material	Dia. (in.)
24	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	Stranding	Conductor Material
20	7x28	TC - Tinned Copper

Outer Shield

Outer Shield Material:

Outer Shield Trade Name	Туре	Outer Shield Material	Coverage (%)
Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100

Outer Shield Drain Wire AWG:

	AWG	Stranding	Drain Wire Conductor Material
ı	18	7x26	TC - Tinned Copper

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Outer Jacket Ripcord: Yes

Overall Cabling

Overall Nominal Diameter: 1.130 in.

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
5	Blue & Orange Numbered 5
6	Blue & Orange Numbered 6

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1333A Multi-Conductor - DataBus® ISA/SP-50 FOUNDATION Fieldbus or PROFIBUS Cable

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
20	Blue & Orange Numbered 20
21	Blue & Orange Numbered 21
22	Blue & Orange Numbered 22
23	Blue & Orange Numbered 23
24	Blue & Orange Numbered 24

Pair Lay Length & Direction:

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

Mechanical Characteristics (Overall)

Operating Temperature Range:	-30°C To +90°C
UL Temperature Rating:	90°C
Max. Recommended Pulling Tension:	1377 lbs.
Min. Bend Radius (Install)/Minor Axis:	11.300 in.
Applicable Specifications and Agency Co	ompliance (Overall)
Applicable Standards & Environmental Progr	rams
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
Oil Resistance:	Yes
Plenum/Non-Plenum	
Plenum (Y/N):	No

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1333A Multi-Conductor - DataBus® ISA/SP-50 FOUNDATION Fieldbus or PROFIBUS Cable

Electrical Characteristics (Overall)

Unaveraged Impedance:

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Impedance (Ohm)
	.03125			100

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

7.500 Ohm/1000 ft

Deg. C:

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:

DescriptionCurrentPer Conductor5.2 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
1333A 0031000	1,000 FT	675.000 LB	ORANGE	С	24 FS PR #18 PP FS FRPVC
1333A 0031640	1,640 FT	1,320.200 LB	ORANGE	С	24 FS PR #18 PP FS FRPVC
1333A 0061000	1,000 FT	675.000 LB	BLUE, LIGHT	С	24 FS PR #18 PP FS FRPVC
1333A 0061640	1,640 FT	1,320.200 LB	BLUE, LIGHT		24 FS PR #18 PP FS FRPVC

Notes:

C = CRATE REEL PUT-UP.

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ENGLISH MEASUREMENT VERSION



1333A Multi-Conductor - DataBus® ISA/SP-50 FOUNDATION Fieldbus or PROFIBUS Cable

Revision Number: 1 Revision Date: 09-19-2008

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ENGLISH MEASUREMENT VERSION



1334A Multi-Conductor - DataBus® ISA/SP-50 FOUNDATION Fieldbus or PROFIBUS Cable





For more Information please call

1-800-Belden1



Description:

1 pair, 18 AWG stranded (7x26) 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	Dia. (in.)
1	18	7x26	TC - Tinned Copper	.048

Insulation

Insulation Material:



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
l	20	7x28	TC - Tinned Copper

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Outer Jacket Ripcord: Yes

Overall Cabling

Overall Nominal Diameter: 0.287 in.

Pair

Pair Color Code Chart:



Pair Lay Length & Direction:

Lay Length (in.) 2.000

Mechanical Characteristics	(Overall)
----------------------------	-----------

Operating Temperature Range:	-30°C To +90°C
UL Temperature Rating:	90°C
Max. Recommended Pulling Tension:	59 lbs.

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1334A Multi-Conductor - DataBus® ISA/SP-50 FOUNDATION Fieldbus or PROFIBUS Cable

Min. Bend Radius (Install)/Minor Axis: 2.900 in.

pplicable Specifications and Agency Compliance (Overall)			
Applicable Standards & Environmental Program			
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):	09/05/2006		
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 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)	Impedance (Ohm)
	.03125			100

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. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
5.86

Maximum Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
4.9

Nom. Attenuation:

Description Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Attenuation (dB/100 ft.)
.039			.069

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ENGLISH MEASUREMENT VERSION



1334A Multi-Conductor - DataBus® ISA/SP-50 FOUNDATION Fieldbus or PROFIBUS Cable

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
1334A 0031000	1,000 FT	51.000 LB	ORANGE	C	1 PR #18 PP SH FRPVC
1334A 0031640	1,640 FT	80.360 LB	ORANGE	С	1 PR #18 PP SH FRPVC
1334A 0033280	3,280 FT	160.720 LB	ORANGE	С	1 PR #18 PP SH FRPVC
1334A 003394	394 FT	21.670 LB	ORANGE	С	1 PR #18 PP SH FRPVC
1334A 0061000	1,000 FT	51.000 LB	BLUE, LIGHT	С	1 PR #18 PP SH FRPVC
1334A 0061640	1,640 FT	80.360 LB	BLUE, LIGHT	С	1 PR #18 PP SH FRPVC
1334A 0063280	3,290 FT	161.210 LB	BLUE, LIGHT	С	1 PR #18 PP SH FRPVC
1334A 006394	394 FT	21.670 LB	BLUE, LIGHT	С	1 PR #18 PP SH FRPVC

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 1 Revision Date: 09-19-2008

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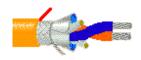
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ENGLISH MEASUREMENT VERSION



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





For more Information please call

1-800-Belden1



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:

	AWG	Stranding	Conductor Material
1	16	7x24	TC - Tinned Copper

Insulation

Insulation Material:



Outer Shield

Outer Shield Material:

Layer #	Outer Shield Trade Name	Туре	Outer Shield Material	Coverage (%)
1	Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100
2		Braid	TC - Tinned Copper	65

Outer Shield Drain Wire 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 Cabling

Overall Nominal Diameter: 0.340 in.

Pair

Pair Color Code Chart:



Pair Lay Length & Direction:

Lay Length (in.) 2.125

Mechan	ical C	Charact	eristics	(Overall)

Operating Temperature Range:	-30°C To +90°C
UL Temperature Rating:	90°C
Max. Recommended Pulling Tension:	84 lbs.

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

Min. Bend Radius (Install)/Minor Axis: 3.400 in.

Applicable Specifications and Agency Compliance (Overall) Applicable Standards & Environmental Programs NEC/(UL) Specification: CM, ITC, PLTC CEC/C(UL) Specification: СМ **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 Yes EU Directive 2003/11/EC (BFR): CA Prop 65 (CJ for Wire & Cable): Yes MII Order #39 (China RoHS): Yes Flame Test **UL Flame Test:** UL1685 UL Loading Suitability Suitability - Indoor: Yes Suitability - Outdoor: Yes

Yes

No

Electrical Characteristics (Overall)

Unaveraged Impedance:

Plenum/Non-Plenum Plenum (Y/N):

Sunlight Resistance:

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Impedance (Ohm)
	.03125			100

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)
4.200	

Maximum Outer Shield DC Resistance:

DCR @ 20°C	(Ohm/1000	ft)
4.9		

Nom. Attenuation:

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Attenuation (dB/100 ft.)
	.039			.066

Max. Attenuation:

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ENGLISH MEASUREMENT VERSION



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

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 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	65.000 LB	ORANGE	С	1 PR #16 PP SH FRPVC
1335A 0031640	1,640 FT	106.600 LB	ORANGE	С	1 PR #16 PP SH FRPVC
1335A 0033280	3,280 FT	213.200 LB	ORANGE	С	1 PR #16 PP SH FRPVC
1335A 003394	394 FT	27.186 LB	ORANGE	С	1 PR #16 PP SH FRPVC
1335A 0061000	1,000 FT	65.000 LB	BLUE, LIGHT	С	1 PR #16 PP SH FRPVC
1335A 0061640	1,640 FT	106.600 LB	BLUE, LIGHT	С	1 PR #16 PP SH FRPVC
1335A 0063280	3,280 FT	213.200 LB	BLUE, LIGHT	С	1 PR #16 PP SH FRPVC
1335A 006394	394 FT	27.186 LB	BLUE, LIGHT	С	1 PR #16 PP SH FRPVC

Notes:

C = CRATE REEL PUT-UP.

Revision Date: 09-19-2008 Revision Number: 1

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ENGLISH MEASUREMENT VERSION



1336A Multi-Conductor - DataBus® ISA/SP-50 FOUNDATION Fieldbus or PROFIBUS Cable





For more Information please call

1-800-Belden1



Description:

1 pair, 14 AWG stranded (7x22) 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	_	Conductor Material
1	14	7x22	TC - Tinned Copper

Insulation

Insulation Material:



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
18	7x26	TC - Tinned Copper

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Outer Jacket Ripcord: Yes

Overall Cabling

Overall Nominal Diameter: 0.430 in.

Pair

Pair Color Code Chart:



Pair Lay Length & Direction:

Lay Length (in.) 4.500

Mechani	cal Cl	haracte	ristics	(Overall)

Operating Temperature Range:	-30°C To +90°C
UL Temperature Rating:	90°C
Max. Recommended Pulling Tension:	131 lbs.

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1336A Multi-Conductor - DataBus® ISA/SP-50 FOUNDATION Fieldbus or PROFIBUS Cable

Min. Bend Radius (Install)/Minor Axis: 4.300 in.

Applicable Specifications and Agency Compliance (Overall) Applicable Standards & Environmental Programs 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

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)	Impedance (Ohm)
	.03125			100

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) 2.5

Maximum Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft) 4.9

Nom. Attenuation:

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Attenuation (dB/100 ft.)
	.039			.062

Max. Attenuation:

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

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ENGLISH MEASUREMENT VERSION



1336A Multi-Conductor - DataBus® ISA/SP-50 FOUNDATION Fieldbus or PROFIBUS Cable

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
1336A 0031000	1,000 FT	103.000 LB	ORANGE	С	1 PR #14 PP SH FRPVC
1336A 0031640	1,640 FT	170.560 LB	ORANGE	С	1 PR #14 PP SH FRPVC
1336A 0033280	3,280 FT	350.960 LB	ORANGE	С	1 PR #14 PP SH FRPVC
1336A 003394	394 FT	40.976 LB	ORANGE	С	1 PR #14 PP SH FRPVC
1336A 0061000	1,000 FT	103.000 LB	BLUE, LIGHT	С	1 PR #14 PP SH FRPVC
1336A 0061640	1,640 FT	170.560 LB	BLUE, LIGHT	С	1 PR #14 PP SH FRPVC
1336A 0063280	3,280 FT	350.960 LB	BLUE, LIGHT	С	1 PR #14 PP SH FRPVC
1336A 006394	394 FT	40.976 LB	BLUE, LIGHT	С	1 PR #14 PP SH FRPVC

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 1 Revision Date: 09-19-2008

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ENGLISH MEASUREMENT VERSION



3077F Multi-Conductor - DataBus® ISA/SP-50 FOUNDATION Fieldbus Cable





For more Information please call

1-800-Belden1



Description:

22 AWG stranded (7x30) tinned copper conductors, polyolefin insulation, Beldfoil® shield (100% coverage), tinned copper drain wire, PVC jacket.

Physical Characteristics (Overall)

Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material	Dia. (in.)
1	22	7x30	TC - Tinned Copper	.030

Insulation

Insulation Material:

Insulation Material
PO - Polyolefin

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
20	7x28	TC - Tinned Copper

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Overall Cabling

Overall Nominal Diameter: 0.196 in.

Pair

Pair Color Code Chart:



Pair Lay Length & Direction:

Lay Length (in.) 1.500

Mechanical	Character	istics (C	Overall)
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Operating Temperature Range:	-30°C To +105°C
UL Temperature Rating:	105°C
Bulk Cable Weight:	18 lbs/1000 ft.
Max. Recommended Pulling Tension:	27 lbs.
Min. Bend Radius (Install)/Minor Axis:	2.200 in.

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3077F Multi-Conductor - DataBus® ISA/SP-50 FOUNDATION Fieldbus Cable

Applicable Specifications and Agency Compliance (Overall)						
Applicable Standards & Environmental Progr	ams					
CEC/C(UL) Specification:	CM					
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):	01/01/2004					
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					
Plenum/Non-Plenum						
Plenum (Y/N):	No					

Surface Printing (Overall)

Electrical Characteristics (Overall)

Unaveraged Impedance:

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Impedance (Ohm)
	.03125			100

Nom. Inductance:

Inductance (µH/ft) .20

Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)
44.0

Nom. Mutual Capacitance:

Capacitance (pF/ft) 23.5

Maximum Capacitance Unbalance:

Capacitance (pF/ft)
1.2

Nominal Velocity of Propagation:

VP (%) 66

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft) 17.1

Ind. Pair Nominal Shield DC Resistance @ 20

11.400 Ohm/1000 ft

Deg. C:

Nom. Attenuation:

Description Freq. (MHz) Start Freq. (MHz	Stop Freq. (MHz)	Attenuation (dB/100 ft.)
.039			.14

Max. Attenuation:

I	0	Freq. (MHz)	Attenuation (dB/100 ft.)
	.152	0.039	0.152

Max. Operating Voltage - UL:

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3077F Multi-Conductor - DataBus® ISA/SP-50 FOUNDATION Fieldbus Cable

Voltage 300 V RMS

Max. Recommended Current:

Current Description Per Conductor | 2.5 Amps

31.25 KBits/sec Other Electrical Characteristic 2:

Notes (Overall)

Notes: Tape around pair has shorting fold. CPE & LSOH Jacket optional.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
3077F 0031000	1,000 FT	23.000 LB	ORANGE	CN	TWPR #22 PP FS PVC
3077F 003500	500 FT	11.000 LB	ORANGE	CN	TWPR #22 PP FS PVC

Notes:

C = CRATE REEL PUT-UP

N = FINAL PUT-UP LENGTH MAY VARY -0% TO +10% FROM LENGTH SHOWN.

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ENGLISH MEASUREMENT VERSION



3078F Multi-Conductor - DataBus® ISA/SP-50 FOUNDATION Fieldbus Cable





For more Information please call

1-800-Belden1



Description:

22 AWG stranded (7x30) tinned copper conductors, FHDPE insulation, Beldfoil® shield (100% coverage), tinned copper drain wire, PVC jacket.

Physical Characteristics (Overall)

Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material	Dia. (in.)
1	22	7x30	TC - Tinned Copper	.030

Insulation

Insulation Material:

Insulation Material	
FHDPE - Foam High Der	nsity Polyethylene

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
20	7x28	TC - Tinned Copper

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Overall Cabling

Overall Nominal Diameter: 0.351 in.

Pair

Pair Color Code Chart:



Pair Lay Length & Direction:

Lay Length (in.) 4.000

Mechanical	Characteristics	(Overall)

Operating Temperature Range:	-40°C To +75°C
UL Temperature Rating:	75°C
Bulk Cable Weight:	40 lbs/1000 ft.
Max. Recommended Pulling Tension:	32 lbs.
Min. Bend Radius (Install)/Minor Axis:	3.500 in.

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3078F Multi-Conductor - DataBus® ISA/SP-50 FOUNDATION Fieldbus Cable

Applicable Specifications and Agency Compliance (Overall) Applicable Standards & Environmental Programs CEC/C(UL) Specification: CM **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): 01/01/2004 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 Plenum/Non-Plenum

No

Surface Printing (Overall)

Electrical Characteristics (Overall)

Unaveraged Impedance:

Plenum (Y/N):

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Impedance (Ohm)
	1.0			150

Nom. Inductance:

Inductance (µH/ft) .30

Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)
16.0

Nom. Mutual Capacitance:

Capacitance (pF/ft) 8.5

Maximum Capacitance Unbalance:

Capacitance (pF/ft)
.46

Nominal Velocity of Propagation:

VP (%) 78

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft) 17.1

Ind. Pair Nominal Shield DC Resistance @ 20 3.300 Ohm/1000 ft Deg. C:

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
.25	.18
.625	.26
1.25	.34
3.125	.55

Max. Attenuation:

() Freq. (MHz)

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ENGLISH MEASUREMENT VERSION



3078F Multi-Conductor - DataBus® ISA/SP-50 FOUNDATION Fieldbus Cable

.305	.625
.396	1.25
.610	3.125

Max. Operating Voltage - UL:

Voltage 300 V RMS

Max. Recommended Current:

Description	Current	
Per Conductor	2.5 Amps	

Other Electrical Characteristic 1: ISA/IEC SP50 Requirements: Impedance @ 250 kHz, 625 kHz, 1.25 MHz, and

3.125 MHz: 150 +/- 10% Ohms

Other Electrical Characteristic 2: 1.0 and 2.5 MBits/sec

Notes (Overall)

Notes: Tape around pair has shorting fold. CPE & LSOH Jacket optional.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
3078F 0031000	1,000 FT	47.000 LB	ORANGE	С	#22 PR FPE/LDPE FS PVC
3078F 0032500	2,500 FT	122.500 LB	ORANGE	С	#22 PR FPE/LDPE FS PVC
3078F 003500	500 FT	24.500 LB	ORANGE	С	#22 PR FPE/LDPE FS PVC

Notes:

C = CRATE REEL PUT-UP.

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