

3082A Paired - DeviceBus® for ODVA DeviceNet™

		<p>For more information please call 1-800-Belden1</p> <p><u>See Put-ups and Colors</u></p>
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Description:

15 and 18 AWG stranded tinned copper conductors, PVC insulation (power), FPE insulation (data), individually foil shielded (100% coverage) plus an overall tinned copper braid (65% coverage), sunlight/oil-resistant PVC jacket.

PHYSICAL CHARACTERISTICS:

CONDUCTOR:

Number of Pairs	2
Total Number of Conductors	4

AWG :

Number of Pairs	AWG	Stranding	Conductor Material	Conductor Diameter (in.)
1	15	19x28	TC - Tinned Copper	
1	18	19x30	TC - Tinned Copper	

Stranding	19x28, 19x30
Conductor Material	TC - Tinned Copper

INSULATION:

Insulation Material	PVC - Polyvinyl Chloride, FPE - Foam Polyethylene
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Insulation Material (Multi-AWG) :

AWG	Layer Number	Material Trade Name	Material	Wall Thickness (in.)	Diameter (in.)
15			PVC - Polyvinyl Chloride		
18			FPE - Foam Polyethylene		

Pair Color Code Chart :

Number	Color	Number	Color
1 (15 AWG)	Red & Black	2 (18 AWG)	Blue & White

INNER SHIELD:

Inner Shield Type	Tape/Tape
Inner Shield Material :	



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Layer Number/Description	Material Trade Name	Type	Material	% Coverage (%)	Stranding	Diameter (in.)	Conductor Material
15 AWG Pair		Tape	Aluminum Foil-Polyester Tape	100			
18 AWG Pair		Tape	Aluminum Foil-Polyester Tape	100			

Inner Shield % Coverage 100 %

OUTER SHIELD:

Outer Shield Type Braid
 Outer Shield Material TC - Tinned Copper
 Outer Shield % Coverage 65 %

OUTER SHIELD DRAIN WIRE :

Outer Shield Drain Wire AWG 18
 Outer Shield Drain Wire Stranding 19x30
 Outer Shield Drain Wire Conductor Material TC - Tinned Copper

OUTER JACKET:

Outer Jacket Material PVC - Polyvinyl Chloride
 Outer Jacket Nominal Wall Thickness .060 in.

OVERALL NOMINAL DIAMETER:

Overall Nominal Diameter .480 in.

MECHANICAL CHARACTERISTICS:

Operating Temperature Range -20°C To +75°C
 UL Temperature Rating 75°C (UL AWM Style 20201)
 Bulk Cable Weight 108 lbs/1000 ft.
 Max. Recommended Pulling Tension 190 lbs.
 Min. Bend Radius (Install) 4.6 in.

APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

APPLICABLE STANDARDS:

NEC/(UL) Specification CMG, PLTC OPEN WIRING
 CEC/C(UL) Specification CMG
 AWM Specification UL Style 20201 (600 V 75°C)
 CSA Specification I/II A
 EU CE Mark (Y/N) Yes
 EU RoHS Compliant (Y/N) Yes
 EU RoHS Compliance Date (mm/dd/yyyy): 04/01/2005
 Other Specification ODVA Class 2 Thick

FLAME TEST:



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UL Flame Test	UL1685 FT4 Loading
CSA Flame Test	FT4

SUITABILITY:

Sunlight Resistance	Yes
Oil Resistance	Yes

PLENUM/NON-PLENUM:

Plenum (Y/N)	N
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ELECTRICAL CHARACTERISTICS:

Unaveraged Impedance :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Unaveraged Impedance (Ohms)
18 AWG Pair Only				120

Nom. Inductance :

Description	Nom. Inductance (µH/ft)
15 AWG Pair Only	.174

Nom. Capacitance Conductor to Conductor :

Description	Frequency (kHz)	Start Frequency (kHz)	Stop Frequency (kHz)	Nom. Capacitance Conductor to Conductor (pF/ft)
18 AWG Pair Only	1			12.0

Nominal Velocity of Propagation :

Description	Nominal Velocity of Propagation (%)
18 AWG Pair Only	75

Maximum Delay :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Maximum Delay (ns/ft)
18 AWG Pair Only				1.36

Nom. Conductor DC Resistance @ 20 Deg. C :

Description	Nom. Conductor DC Resistance @ 20 Deg. C (Ohms/1000 ft)
15 AWG	3.6
18 AWG	6.9

Nominal Outer Shield DC Resistance @ 20 Deg. C 1.8 Ohms/1000 ft

Max. Attenuation (dB/100 ft.) :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Max. Attenuation (dB/100 ft.)
18 AWG Pair Only	.125			.13
	.500			.25
	1.00			.40

Max. Operating Voltage - UL :

UL Voltage	UL
300 V RMS	C(UL) AWM



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Max. Recommended Current :

Description	Max. Recommended Current
15 AWG	8.0 Amps
18 AWG	5.0 Amps

NOTES:

Notes Thick. Meter marks on jacket to aid users in installation. ODVA DeviceNet is an Open DeviceNet Vendor Associatio, Inc. Trademark.

PUT-UPS AND COLORS:

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
3082A 0021000	2 #15, 2 #18 SHLD FRPVC	1000	138	RED	C
3082A T5U1000	2 #15, 2 #18 SHLD PVC	1000	138	GRAY T5U	C
3082A T5U2000	2 #15, 2 #18 SHLD PVC	2000	280	GRAY T5U	C
3082A T5U500	2 #15, 2 #18 SH PVC	500	71	GRAY T5U	C

C = CRATE REEL PUT-UP.

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