

3082A Paired - DeviceBus® for ODVA DeviceNet™

 	For more information please call 1-800-Belden1 <u>See Put-ups and Colors</u>
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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
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Inner Shield Material :

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			

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Inner Shield % Coverage	100 %
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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.
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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-ER
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:

UL Flame Test	UL1685 FT4 Loading
CSA Flame Test	FT4

SUITABILITY:

Sunlight Resistance	Yes
Oil Resistance	Yes

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PLENUM/NON-PLENUM:

Plenum (Y/N) N

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	Description
300 V RMS	C(UL) AWM

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.

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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.

Revision Number: 1 Revision Date: 02-22-2007

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