

3084A Paired - DeviceBus® for ODVA DeviceNet™

		<p style="text-align: center;">For more information please call 1-800-Belden1</p> <p style="text-align: center;"><u>See Put-ups and Colors</u></p>
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Description:

22 and 24 AWG stranded tinned copper conductors, PVC insulation (power), FPE insulation (Data), individually foil shielded (100% coverage) and an overall tinned copper braid (65% coverage), sunlight/oil-resistant PVC jacket.

PHYSICAL CHARACTERISTICS:

CONDUCTOR:

Number of Pairs	2			
Number of Conductors	4			
AWG :				
Number of Pairs	AWG	Stranding	Conductor Material	Conductor Diameter (in.)
1	22	19x34	TC - Tinned Copper	
1	24	19x36	TC - Tinned Copper	
Stranding		19x34, 19x36		
Conductor Material		TC - Tinned Copper		

INSULATION:

Insulation Material	PVC - Polyvinyl Chloride, FPE - Foam Polyethylene				
Insulation Material (Multi-AWG) :					
AWG	Layer Number	Material Trade Name	Material	Wall Thickness (in.)	Diameter (in.)
22			PVC - Polyvinyl Chloride		
24			FPE - Foam Polyethylene		

Pair Color Code Chart :

Number	Color	Number	Color
22 AWG Pair	Red & Black	24 AWG Pair	Blue & White

INNER SHIELD:

Inner Shield Type	Tape/Tape						
Inner Shield Material :							
Layer Number/Description	Material Trade Name	Type	Material	% Coverage (%)	Stranding	Diameter (in.)	Conductor Material
22 AWG Pair		Tape	Aluminum Foil-Polyester Tape	100			
24 AWG Pair		Tape	Aluminum Foil-Polyester Tape	100			

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Inner Shield % Coverage	100 %
Inner Shield Drain Wire AWG	22
Inner Shield Drain Wire Stranding	19x34
Inner Shield Drain Wire Conductor Material	TC - Tinned Copper

OUTER SHIELD:

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

OUTER JACKET:

Outer Jacket Material	PVC - Polyvinyl Chloride
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OVERALL NOMINAL DIAMETER:

Overall Nominal Diameter	.280 in.
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MECHANICAL CHARACTERISTICS:

Operating Temperature Range	-20°C To +75°C
UL Temperature Rating	75°C
Bulk Cable Weight	41 lbs/1000 ft.
Max. Recommended Pulling Tension	65 lbs.
Min. Bend Radius (Install)	2.75 in.

APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

APPLICABLE STANDARDS:

NEC/(UL) Specification	CMG, CL2
CEC/C(UL) Specification	CMG
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 Thin

FLAME TEST:

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:

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Nom. Characteristic Impedance :

Description	Nom. Characteristic Impedance (Ohms)
24 AWG Pair	120

Nom. Inductance :

Description	Nom. Inductance (µH/ft)
22 AWG Pair	.221
24 AWG Pair	.251

Nom. Capacitance Conductor to Conductor @ 1 KHz 24 AWG pair 12.0 pF/ft

Nom. Capacitance Conductor to Conductor :

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

Nominal Velocity of Propagation :

Description	Nominal Velocity of Propagation (%)
24 AWG Pair	75

Maximum Delay :

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

Maximum Conductor DC Resistance :

Description	Maximum Conductor DC Resistance @ 20 Deg. C (Ohms/1000 ft)
22 AWG	17.5
24 AWG	28.0

Nominal Outer Shield DC Resistance @ 20 Deg. C 3.2 Ohms/1000 ft

Max. Attenuation (dB/100 ft.) :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Max. Attenuation (dB/100 ft.)
24 AWG Pair Only	.125			.29
	.500			.50
	1.000			.70

Max. Operating Voltage - UL :

UL Voltage	Description
300 V RMS	CL2, CMG
300 V RMS	C(UL) AWM
600 V RMS	UL AWM

Max. Recommended Current 1.7 Amps per conductor @ 25°C (24 AWG), 4 Amps per conductor @ 24 V per NEC CL2 (Power Pair)

NOTES:

Notes Flex Life: +/- 90 Degree Flex Test, 2" Diameter, 2 lbs. tension: 2000 Cycles minimum. Meter marks on jacket to aid users in installation. ODVA DeviceNet is an Open DeviceNet Vendor Association, Inc. trademark.

PUT-UPS AND COLORS:

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Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
3084A 0021000	2 #22, 2 #24 SH PVC	1000	47	RED	C
3084A T5U1000	2 #22, 2 #24 SHLD PVC	1000	47	GRAY T5U	C
3084A T5U2000	2 #22, 2 #24 SHLD PVC	2000	96	GRAY T5U	C Z
3084A T5U500	2 #22, 2 #24 SHLD PVC	500	22	GRAY T5U	C

C = CRATE REEL PUT-UP.

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

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