



3084A Paired - DeviceBus® for ODVA DeviceNet™

		<p>Metric Version For more information please call 1-800-Belden1</p> <p><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 (mm)
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 (mm)	Diameter (mm)
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 :



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

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	7.112 mm
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MECHANICAL CHARACTERISTICS:

Operating Temperature Range	-20°C To +75°C
UL Temperature Rating	75°C
Bulk Cable Weight	61.016 Kg/Km
Max. Recommended Pulling Tension	289.133 N
Min. Bend Radius (Install)	69.85 mm

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:

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Sunlight Resistance	Yes
Oil Resistance	Yes

PLENUM/NON-PLENUM:

Plenum (Y/N)	N
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ELECTRICAL CHARACTERISTICS:

Nom. Characteristic Impedance :

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

Nom. Inductance :

Description	Nom. Inductance (µH/m)
22 AWG Pair	0.725
24 AWG Pair	0.824

Nom. Capacitance Conductor to Conductor @ 1 KHz 78.744 AWG pair 39.372 pF/m

Nom. Capacitance Conductor to Conductor :

Description	Frequency (kHz)	Start Frequency (kHz)	Stop Frequency (kHz)	Nom. Capacitance Conductor to Conductor (pF/m)
24 AWG Pair	1			39.372

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/m)
24 AWG Pair				4.462

Maximum Conductor DC Resistance :

Description	Maximum Conductor DC Resistance @ 20 Deg. C (Ohms/km)
22 AWG	57.417
24 AWG	91.868

Nominal Outer Shield DC Resistance @ 20 Deg. C 10.499 Ohms/km

Max. Attenuation (dB/100 ft.) :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Max. Attenuation (dB/100m)
24 AWG Pair Only	0.125			0.951
	0.5			1.64
	1			2.297

Max. Operating Voltage - UL :

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



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Max. Recommended Current	1.7 Amps per conductor @ 25°C (24 AWG), 5 Amps per conductor @ 25°C (22 AWG)
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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.
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PUT-UPS AND COLORS:

Item	Description	Put-Up (M)	Ship Weight (kgs.)	Jacket Color	Notes
3084A T5U1000	2 #22, 2 #24 SHLD PVC	304.8	21.338	GRAY T5U	C
3084A T5U2000	2 #22, 2 #24 SHLD PVC	609.6	43.584	GRAY T5U	C Z
3084A T5U500	2 #22, 2 #24 SHLD PVC	152.4	9.988	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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