

## 3085A Paired - DeviceBus® for ODVA DeviceNet™

 	<p>For more information please call <b>1-800-Belden1</b></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), CPE 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
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#### 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
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#### 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	CPE - Chlorinated Polyethylene
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**OVERALL NOMINAL DIAMETER:**

Overall Nominal Diameter	.280 in.
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**MECHANICAL CHARACTERISTICS:**

Operating Temperature Range	-30°C To +75°C
UL Temperature Rating	75°C
Bulk Cable Weight	46 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
EU RoHS Compliant (Y/N)	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	10/13/2005
Other Specification	ODVA Class 2 Thin

**FLAME TEST:**

UL Flame Test	UL1685 FT4 Loading
CSA Flame Test	FT4

**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. Capacitance Conductor to Conductor @ 1 KHz 12.0 pF/ft

Nom. Capacitance Conductor to Conductor :

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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 300 V RMS

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 Thin. Meter marks on jacket to aid users in installation. ODVA Devicenet is an Open DeviceNet Vendor Association, Inc. trademark.

### PUT-UPS AND COLORS:

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
3085A 5601000	2 #22, 2 #24 SHLD CPE	1000	47	YELLOW, BRIGHT	C
3085A 5602000	2 #22, 2 #24 SHLD CPE	2000	96	YELLOW, BRIGHT	C
3085A 560500	2 #22, 2 #24 SHLD CPE	500	22	YELLOW, BRIGHT	C

C = CRATE REEL PUT-UP.

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