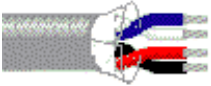




**7900A Paired - DeviceBus® for ODVA DeviceNet™**

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

16 and 18 AWG stranded tinned copper conductors, PVC/Nylon insulation (power), F-R Polypropylene insulation (data), unshielded, 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	16	19x29	TC - Tinned Copper	
1	18	19x30	TC - Tinned Copper	

Stranding	19x29, 19x30
Conductor Material	TC - Tinned Copper

**INSULATION:**

Insulation Material	PVC/Nylon - Polyvinyl Chloride/Nylon, FRPP - Flame Retardant Polypropylene
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**Insulation Material (Multi-AWG) :**

AWG	Layer Number	Material Trade Name	Material	Wall Thickness (in.)	Diameter (in.)
16			PVC/Nylon - Polyvinyl Chloride/Nylon		
18			FRPP - Flame Retardant Polypropylene		

**Pair Color Code Chart :**

Number	Color	Number	Color
1 (16 AWG)	Red & Black	2 (18 AWG)	Blue & White

**OVERALL CABLING:**

Overall Cabling Separator Material	Polyester Tape
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**OUTER SHIELD:**

Outer Shield Material	Unshielded
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**OUTER JACKET:**

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Outer Jacket Material	PVC - Polyvinyl Chloride
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**OVERALL NOMINAL DIAMETER:**

Overall Nominal Diameter	.430 in.
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**MECHANICAL CHARACTERISTICS:**

Operating Temperature Range	-20°C To +75°C
UL Temperature Rating	75°C
Bulk Cable Weight	100 lbs/1000 ft.
Max. Recommended Pulling Tension	110 lbs.
Min. Bend Radius (Install)	4.3 in.

**APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:**

**APPLICABLE STANDARDS:**

NEC/(UL) Specification	TC-ER
CSA Specification	AWM I/II A/B
EU CE Mark (Y/N)	Yes
EU RoHS Compliant (Y/N)	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	10/13/2005

**FLAME TEST:**

UL Flame Test	UL1685 UL Loading
CSA Flame Test	FT1

**SUITABILITY:**

Sunlight Resistance	Yes
Oil Resistance	Yes

**PLENUM/NON-PLENUM:**

Plenum (Y/N)	N
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**ELECTRICAL CHARACTERISTICS:**

Fitted Impedance :

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

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			14.7

Nominal Velocity of Propagation :

Description	Nominal Velocity of Propagation (%)
18 AWG Pair Only	64

Maximum Delay :

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Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Maximum Delay (ns/ft)
18 AWG Pair Only				1.6

Nom. Conductor DC Resistance @ 20 Deg. C :

Description	Nom. Conductor DC Resistance @ 20 Deg. C (Ohms/1000 ft)
16 AWG	4.9
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 600 V RMS

Max. Recommended Current :

Description	Max. Recommended Current
15 AWG	8.0 Amps

**NOTES:**

Notes Drop. 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
7900A T5U1000	2 #16 PVC/NYL, 2 #18 PP PVC	1000	105	GRAY T5U	C
7900A T5U500	2 #16 PVC/NYL, 2 #18 PP PVC	500	51	GRAY T5U	C

C = CRATE REEL PUT-UP.

Revision Number: 1      Revision Date: 02-07-2006

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