

7895A 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:

20 and 18 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	18	19x30	TC - Tinned Copper	
1	20	19x32	TC - Tinned Copper	
Stranding		19x30, 19x32		
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.)
18			PVC - Polyvinyl Chloride		
20			FPE - Foam Polyethylene		

Pair Color Code Chart :

Number	Color	Number	Color
18 AWG Pair	Red & Black	20 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
18 AWG Pair		Tape	Aluminum Foil-Polyester Tape	100			
20 AWG Pair		Tape	Aluminum Foil-Polyester Tape	100			

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Inner Shield % Coverage	100 %
Inner Shield Drain Wire AWG	20
Inner Shield Drain Wire Stranding	19x32
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	.378 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	68 lbs/1000 ft.
Max. Recommended Pulling Tension	65 lbs.
Min. Bend Radius (Install)	3.8 in.

APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

APPLICABLE STANDARDS:

NEC/(UL) Specification	CMG, PLTC
CEC/C(UL) Specification	CMG
AWM Specification	UL Style 20201 (600 V 75°C)
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 Cable III

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)
20 AWG Pair	120

Nom. Capacitance Conductor to Conductor @ 1 KHz 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)
20 AWG Pair	1			12.0

Nominal Velocity of Propagation :

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

Maximum Delay :

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

Maximum Conductor DC Resistance :

Description	Maximum Conductor DC Resistance @ 20 Deg. C (Ohms/1000 ft)
18 AWG	6.9
20 AWG	10.9

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.)
20 AWG Pair Only	.125			.29
	.500			.50
	1.000			.70

Max. Operating Voltage - UL :

UL Voltage	Description
300 V RMS	PLTC, CMG
600 V RMS	UL AWM

NOTES:

Notes Mid. 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
7895A T5U1000	2#18 PVC, 2#20 FHDPE SH PVC	1000	84	GRAY T5U	C
7895A T5U500	2#18 PVC, 2#20 FHDPE SH PVC	500	41	GRAY T5U	

C = CRATE REEL PUT-UP.

Revision Number: 1 Revision Date: 09-13-2005

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