



**Part Number:** 7900A

DeviceBus®, 2 Pr #16+18 Str TC, PVC-NYL+PO Ins, PVC Jkt, 600V TC-ER

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## Product Description

DeviceBus® for ODVA DeviceNet™, 2 Pair 16+18AWG (19x29+19x30) Tinned Copper, PVC-NYL+PO Insulation, PVC Outer Jacket, 600V TC-ER

## Technical Specifications

### Physical Characteristics (Overall)

#### Conductor

AWG	Stranding	Material	No. of Pairs
16	19x29	TC - Tinned Copper	1
18	19x30	TC - Tinned Copper	1

Conductor Count:	4
Conductor Size:	16 AWG

#### Insulation

Element	Material	Nominal Diameter
16	PVC/Nylon - Polyvinyl Chloride/Nylon	0.101 in
18	FRPP - Flame Retardant Polypropylene	0.098 in

#### Color Chart

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

#### Outer Shield Material

Material
Unshielded

#### Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness	Separator Material
PVC - Polyvinyl Chloride	0.43 in	0.075 in	Polyester

### Electrical Characteristics

#### Conductor DCR

Element	Nominal Conductor DCR	Nominal Outer Shield DCR
16 AWG	4.9 Ohm/1000ft	1.8 Ohm/1000ft
18 AWG	6.9 Ohm/1000ft	

#### Capacitance

Element	Nom. Capacitance Conductor to Conductor
18 AWG Pair Only	
	14.7 pF/ft

#### Impedance

Nominal Characteristic Impedance
100 Ohm

120 Ohm

#### Delay

Max. Delay	Max. Delay Description	Nominal Delay	Nominal Velocity of Propagation (VP) [%]	Nominal Velocity of Propagation (VP) Description
1.6 ns/ft	18 AWG Pair Only			18 AWG Pair Only
		1.6 ns/ft	64 %	

#### High Freq

Element	Frequency [MHz]	Max./Min. Fitted Impedance
18 AWG Pair Only	0.125 MHz	120 Ohm
	0.5 MHz	

#### Current

Element	Max. Recommended Current [A]
15 AWG	8.0 Amps per Conductor

#### Voltage

UL Voltage Rating
600 V RMS

#### Temperature Range

UL Temp Rating:	75°C
Operating Temp Range:	-20°C To +75°C

#### Mechanical Characteristics

Bulk Cable Weight:	100 lbs/1000ft
Max Recommended Pulling Tension:	110 lbs
Min Bend Radius/Minor Axis:	4.3 in

#### Standards

NEC/(UL) Specification:	TC-ER
CSA AWM Specification:	AWM I/II A/B
Other Specification:	ODVA Cable IV

#### Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2005-10-13
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

#### Suitability

Suitability - Oil Resistance:	Yes
Suitability - Sunlight Resistance:	Yes

#### Flammability, LSOH, Toxicity Testing

UL Flammability:	UL1685 UL Loading
CSA Flammability:	FT1
UL voltage rating:	600 V RMS

#### Plenum/Non-Plenum

Plenum (Y/N):	No
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#### Part Number

#### Variants

Item #	Color	UPC	Length	Footnote
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7900A T5U1000	Gray T5U	612825190905	1,000 ft	C
7900A T5U500	Gray T5U	612825190912	500 ft	C

Footnote:	C - CRATE REEL PUT-UP.
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### Product Notes

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