



Product: [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

Product Overview

Suitable Applications:	harsh environment, ODVA device-level communication, used with CIP (common Industrial Protocol) for control, configuration, and data collection between devices, such as sensors and actuators, and higher level devices such as PLC, and PC in industrial automation, bus topology, etc.
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Construction Details

Conductor

Element	Size	Stranding	Material
Pair(s)	16 AWG	19x29	TC - Tinned Copper
Conductor(s)	18 AWG	19x30	TC - Tinned Copper

Insulation

Element	Material	Nom. Insulation Diameter	Color Code	Notes
Conductor(s)	PVC/Nylon - Polyvinyl Chloride + Nylon	0.101 in (2.57 mm)	Red & Black, Blue & White	
Conductor1	PP - Polypropylene	0.098 in (2.5 mm)		Flame Retardant

Inner Shield

Element
Data Pair(s)

Outer Shield

Material
No Shield

Outer Jacket

Separator	Material	Nom. Thickness	Nom. Diameter
Polyester Tape	PVC - Polyvinyl Chloride	0.075 in (1.9 mm)	0.43 in (11 mm)

Electrical Characteristics

Electricals

Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Characteristic Impedence	Nom. Velocity of Prop.	Max. Current
4.9 Ohm/1000ft		100 Ohm		4.8 Amps per Conductor
6.9 Ohm/1000ft (23 Ohm/km)	14.7 pF/ft (48.2 pF/m)	120 Ohm	64%	

High Frequency

Element	Frequency [MHz]
18 AWG Pair Only	0.125
	0.5

Voltage

UL Voltage Rating

600 V

Mechanical Characteristics

Temperature

UL Temperature	Operating
75°C	-20°C to +75°C

Bend Radius

Stationary Min.	Installation Min.
4.3 in (110 mm)	4.3 in (110 mm)

Max. Pull Tension:	160 lbs (73 kg)
Bulk Cable Weight:	100 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Outdoor, Sunlight Resistance, Oil Resistance
Flammability / Reaction to Fire:	UL1685 UL Loading
NEC / UL Compliance:	Article 336, TC-ER
AWM Compliance:	AWM I/II A/B
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Other Standard Compliance(s):	ODVA Cable IV

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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History

Update and Revision:	Revision Number: 0.497 Revision Date: 02-03-2025
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Part Numbers

Variants

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

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