



Product: [7895A](#)

DeviceBus®, 2 Pr #18+20 Str TC, PVC+FPE Ins, IS+OA TC Brd, PVC Jkt, CMG, PLTC

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Product Description

DeviceBus® for ODVA DeviceNet™, 2 Pair 18+20AWG (19x30+19x32) Tinned Copper, PVC+Foam PE Insulation, Individual Beldfoil® & OA Tinned Copper Braid(65%) Shield, PVC Outer Jacket, CMG, PLTC

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	Number of Element	Size	Stranding	Material
Power Pair(s)	1	18 AWG	19x30	TC - Tinned Copper
Data Pair(s)	1	20 AWG	19x32	TC - Tinned Copper

Insulation

Element	Material	Nom. Thickness	Color Code
Power Pair(s)	PVC - Polyvinyl Chloride	0.018 in (0.46 mm)	Red & Black
Data Pair(s)	PE - Polyethylene (Foam)	0.040 in (1.0 mm)	Blue & White

Inner Shield

Element	Shield Type	Material	Coverage
Power Pair(s)	Tape	Bi-Laminate (Alum+Poly)	100%
Data Pair(s)	Tape	Bi-Laminate (Alum+Poly)	100%

Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Braid	Tinned Copper (TC)	65%	20 AWG (19x32) TC

Outer Jacket

Material	Nom. Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.045 in (1.1 mm)	0.378 in (9.60 mm)

Overall Cable Diameter (Nominal):	0.378 in
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Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Characteristic Impedance	Nom. Velocity of Prop.	Max. Current
Power Pair(s)	6.9 Ohm/1000ft				4 Amps Per Conductor at 24 V (per NEC CL2) (Power Pair)
Data Pair(s)	10.9 Ohm/1000ft	12 pF/ft	120 Ohm	75%	

Nom. Outer Shield DCR:	3.2 Ohm/1000ft
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High Frequency

Element	Frequency [MHz]	Max. Insertion Loss (Attenuation)
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Data Pair(s)	0.125 MHz	.29 dB/100ft
	0.5 MHz	0.5 dB/100ft
	1 MHz	0.7 dB/100ft

Voltage

UL Voltage Rating
300 V (CMG, PLTC), 600 V (UL AWM 20201)

Mechanical Characteristics

Temperature

UL Temperature	Operating
75°C (UL AWM 20201)	-20°C to +75°C

Bend Radius

Stationary Min.	Installation Min.
3.8 in (97 mm)	3.8 in

Standards and Compliance

Environmental Suitability:	Indoor, Sunlight Resistance, Oil Resistance
Flammability / Reaction to Fire:	UL1685 FT4 Loading, FT4, 1202, IEC 60332-1-2
NEC / UL Compliance:	Article 725, Article 800, CMG, PLTC
AWM Compliance:	20201
CEC / C(UL) Compliance:	CMG
CPR Euroclass:	Eca
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)
Other Standard Compliance(s):	ODVA Cable III

Product Notes

Notes:	Mid. 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: 0.402 Revision Date: 12-15-2021
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