



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

Insulation

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

Inner Shield Material

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 Material

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

Outer Jacket Material

Material	Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.045 in	0.378 in

Cable Diameter (Nominal):	0.378 in
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Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Characteristic Impedence	Nom. Velocity of Prop.	Max. Current
Power Pair(s)	6.9 Ohm/1000ft (23 Ohm/km)				4 Amps Per Conductor at 24 V (per NEC CL2) (Power Pair)
Data Pair(s)	10.9 Ohm/1000ft (35.8 Ohm/km)	12 pF/ft (39 pF/m)	120 Ohm	75%	

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

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

Bend Radius

Stationary Min.	Installation Min.
3.8 in	3.8 in

Max. Pull Tension:	65 lbs
Bulk Cable Weight:	68 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor, Sunlight Resistance, Oil Resistance
Flammability / Fire Resistance:	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: 0.394 Revision Date: 07-02-2021
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