



**Product:** [3084A](#)

DeviceBus®, 2 Pr #22+24 Str TC, PVC+FPE Ins, IS+OA TC Brd, PVC Jkt, CMG, CL2

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## Product Description

DeviceBus® for ODVA DeviceNet™, 2 Pair 22+24AWG (19x34+19x36) Tinned Copper, PVC+Foam PE Insulation, Individual Beldfoil® & OA Tinned Copper Braid(65%) Shield, PVC Outer Jacket, CMG, CL2

## 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	22	19x34	TC - Tinned Copper
Data Pair(s)	1	24	19x36	TC - Tinned Copper

#### Insulation

Element	Material	Thickness	Color Code
Power Pair(s)	PVC - Polyvinyl Chloride	0.021 in	Red & Black
Data Pair(s)	PE - Polyethylene (Foam)	0.026 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%	22 AWG (19x34) TC

#### Outer Jacket Material

Material	Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.032 in	0.280 in

Cable Diameter (Nominal):	0.280 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)	17.5 Ohm/1000ft (57.4 Ohm/km)				4 Amps per Conductor at 25°C (Power Pair)
Data Pair(s)	28.0 Ohm/1000ft (91.9 Ohm/km)	12 pF/ft (39 pF/m)	120 Ohm	75%	4 Amps Per Conductor at 24 V (per NEC CL2) (Power Pair)

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	.95 dB/100ft
	0.5 MHz	1.64 dB/100ft
	1 MHz	2.3 dB/100ft

#### Voltage

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

### Mechanical Characteristics

#### Temperature

UL Rating	Operating
75°C	-20°C to +60°C

#### Bend Radius

Stationary Min.	Installation Min.
3.36 in	3.36 in

Max. Pull Tension:	65 lbs
Bulk Cable Weight:	155 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, CL2, CMG
AWM Compliance:	20201, I/II A
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)
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Other Standard Compliance(s):	ODVA Class 2 Thin

### Product Notes

Notes:	Flex Life: +/- 90 Degree Flex Test, 2" Diameter, 2 lbs. tension: 2000 Cycles minimum. 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: 0.406 Revision Date: 07-02-2021
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