



**Product:** [3082A](#)

DeviceBus®, 2 Pr #15+18 Str TC, PVC+FPE Ins, IS+OA TC Brd, PVC Jkt, CMG PLTC-ER

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## Product Description

DeviceBus® for ODVA DeviceNet™, 2 Pair 15+18AWG (19x27+19x30) Tinned Copper, PVC+Foam PE Insulation, Individual Beldfoil® & OA Tinned Copper Braid(65%) Shield, PVC Outer Jacket, CMG PLTC-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	Number of Element	Size	Stranding	Material
Power Pair(s)	1	15 AWG	19x27	TC - Tinned Copper
Data Pair(s)	1	18 AWG	19x30	TC - Tinned Copper

#### Insulation

Element	Material	Nom. Thickness	Color Code	Notes
Power Pair(s)	PVC - Polyvinyl Chloride	0.021 in (0.53 mm)	Red & Black	
Data Pair(s)	PE - Polyethylene (Foam)	0.053 in (1.3 mm)	Blue & White	HDPE

#### 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%	18 AWG (19x30) TC

#### Outer Jacket

Material	Nom. Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.060 in (1.5 mm)	0.480 in (12.2 mm)

Overall Cable Diameter (Nominal):	0.480 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)	3.6 Ohm/1000ft				8 Amps per Conductor
Data Pair(s)	6.9 Ohm/1000ft	12 pF/ft	120 Ohm	75%	5 Amps per Conductor

Nom. Outer Shield DCR:	1.8 Ohm/1000ft
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#### High Frequency

Element	Frequency [MHz]	Max. Insertion Loss (Attenuation)	Max./Min. Input Impedance (unFitted)
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Data Pair(s)	0.125 MHz	0.13 dB/100ft	120 Ohm
	0.5 MHz	0.25 dB/100ft	
	1 MHz	0.36 dB/100ft	

#### Voltage

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

## Mechanical Characteristics

#### Temperature

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

#### Bend Radius

Stationary Min.	Installation Min.
4.8 in (120 mm)	4.8 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-ER
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 Thick

## Product Notes

Notes:	Thick. Meter marks on jacket to aid users in installation. ODVA DeviceNet is an Open DeviceNet Vendor Associatio, Inc. Trademark. Jacket printed ""1PR16"" instead of ""1PR15"" due to UL requirements for CMG Listing.
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## History

Update and Revision:	Revision Number: 0.412 Revision Date: 12-15-2021
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