



**Product:** [3083A](#) 

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

 [Request Sample](#)

## 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, CPE Outer Jacket, CMG PLTC

## Technical Specifications

**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.

### Conductor

Element	Number of Element	AWG	Stranding	Material
Power Pair(s)	1	15	19x27	TC - Tinned Copper
Data Pair(s)	1	18	19x30	TC - Tinned Copper

### Insulation

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

### 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%	18 AWG (19x30) TC

### Outer Jacket Material

Material	Thickness	Nom. Diameter
CPE - Chlorinated Polyethylene	0.058 in	0.476 in

Cable Diameter (Nominal): 0.476 in

### Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Characteristic Impedence	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

### High Freq

Element	Frequency [MHz]	Max. Insertion Loss (Attenuation)	Max./Min. Input Impedance (unFitted)
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)

#### Temperature

##### Operating

-30°C to +105°C

#### Bend Radius

Stationary Min.	Installation Min.
4.8 in	4.8 in

Max. Pull Tension:	190 lbs
Bulk Cable Weight:	119 lbs/1000ft
Environmental Suitability:	Indoor, Sunlight Resistance, Burial
Flammability / Fire Resistance:	UL1685 UL Loading, FT4, 1202
NEC / UL Compliance:	Article 725, Article 800, CMG, PLTC
CEC / C(UL) Compliance:	CMG
CPR Euroclass:	Fca
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU, EU Directive 2011/65/EU (ROHS II), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Other Standard Compliance(s):	ODVA Class 2 Thick
Notes:	Thick. Meter marks on jacket to aid users in installation. ODVA DeviceNet is an Open DeviceNet Vendor Association, Inc. trademark. Jacket printed ""1PR16"" instead of ""1PR15"" due to UL requirements for CMG Listing.
Update and Revision:	Revision Number: 0.410 Revision Date: 09-30-2020

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