


Product: [123082A](#) 



REPRESENTATIVE IMAGE

DeviceBus®, 2 Pr #15+18 Str TC, PVC+FPE Ins, IS+OA TC Brd, PVC Jkt, AIA Armor, PVC Jkt, CM 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, PVC Inner Jacket, Aluminum Interlock Armor, PVC Outer Jacket, CM PLTC

Technical Specifications

Product Overview

Suitable Applications: exposure to rodent, crush, or cut through force, 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.

Construction Details

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

Inner Jacket Material

Material	Nom. Diameter
PVC - Polyvinyl Chloride	0.480 in

Armor

Armor Type & Material
AIA - Aluminum Interlock Armor

Outer Jacket Material

Material	Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.050 in	0.783 in

Cable Diameter (Nominal): 0.783 in

Electrical Characteristics

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%	

Nom Outer Shield DCR:	1.8 Ohm/1000ft
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High Freq

Element
Data Pair(s)

Voltage

UL Voltage Rating
300 V (CM, PLTC)

Mechanical Characteristics

Temperature

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

Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance
Flammability / Fire Resistance:	UL 1685 UL Loading, FT4
NEC / UL Compliance:	Article 725, Article 800, CM, PLTC
CEC / C(UL) Compliance:	CMG HLBCD
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

History

Update and Revision:	Revision Number: 0.222 Revision Date: 02-16-2021
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