



Product: [127896A](#)

DeviceBus®, 2 Pr #16+18 Str TC, PVC-NYL+PP Ins, IS+OA TC Brd, PVC Jkt, AIA Armor, PVC Jkt, CMG CSA HL

### Product Description

DeviceBus® for ODVA DeviceNet™, 2 Pair 16+18AWG (19x29+19x30) Tinned Copper, PVC-NYL+PP Insulation, Individual Beldfoil® & OA Tinned Copper Braid(65%) Shield, PVC Inner Jacket, Aluminum Interlock Armor, PVC Outer Jacket, CMG CSA HL

### 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.
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#### Construction Details

##### Conductor

Element	No. of Elements	Size	Stranding	Material
Power Pair(s)	1	16 AWG	19x29	TC - Tinned Copper
Data Pair(s)	1	18 AWG	19x30	TC - Tinned Copper

##### Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code	Notes
Power Pair(s)	PVC/Nylon - Polyvinyl Chloride + Nylon	0.022 in (0.56 mm)	0.101 in (2.57 mm)	Red & Black	
Data Pair(s)	PP - Polypropylene	0.068 in (1.7 mm)	0.116 in (2.95 mm)	Blue & White	Flame Retardant

##### 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%	16 AWG (19x29) TC

##### Inner Jacket

Material	Nom. Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.060 in (1.5 mm)	0.525 in (13.3 mm)

##### Armor

Armor Type & Material
AIA - Aluminum Interlock Armor

##### Outer Jacket

Material	Nom. Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.050 in (1.3 mm)	0.818 in (20.8 mm)

Overall Cable Diameter (Nominal):	0.818 in (20.8 mm)
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#### Electrical Characteristics

##### Electricals

Element	Nom. Conductor DCR	Nom. Inner Shield DCR	Nom. Capacitance Cond-to-Cond	Nom. Characteristic Impedance	Nom. Velocity of Prop.
Power Pair(s)	4.9 Ohm/1000ft (16 Ohm/km)	1.8 Ohm/1000ft (5.9 Ohm/km)			
Data Pair(s)	6.9 Ohm/1000ft (23 Ohm/km)		14.7 pF/ft (48.2 pF/m)	120 Ohm	75%

#### High Frequency

Element
Data Pair(s)

#### Voltage

Voltage Rating
(300 V)

### Mechanical Characteristics

#### Temperature

UL Temperature	Operating
75°C	-40°C to +75°C

Max. Pull Tension:	200 lbs (91 kg)
Bulk Cable Weight:	136 lbs/1000ft (202 kg/km)

### Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	FT4
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)

### History

Update and Revision:	Revision Number: 0.62 Revision Date: 05-31-2024
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