



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

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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Conductor

Element	Number of Element	AWG	Stranding	Material
Power Pair(s)	1	16	19x29	TC - Tinned Copper
Data Pair(s)	1	18	19x30	TC - Tinned Copper

Insulation

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

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%	16 AWG (19x29) TC

Inner Jacket Material

Material	Nom. Diameter
PVC - Polyvinyl Chloride	0.525 in

Armor

Armor Type & Material
AIA - Aluminum Interlock Armor

Outer Jacket Material

Material	Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.050 in	0.818 in

Cable Diameter (Nominal):	0.818 in
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Electricals

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

High Freq

Element

Data Pair(s)

Voltage

Non-UL Voltage Rating

(300 V)

Temperature

UL Rating Operating

75°C -40°C to +75°C

Max. Pull Tension:	200 lbs
Bulk Cable Weight:	136 lbs/1000ft
Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance
Sustainability:	CA Prop 65
Flammability / Fire Resistance:	UL 1685 Vertical Tray
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)
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