



Product: [7897A](#)

DeviceBus®, 2 Pr #15+18 Str TC, PVC-NYL + FEP Ins, IS+OA TC Brd, PVC Jkt, 600V TC-ER

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Product Description

DeviceBus® for ODVA DeviceNet™, 2 Pair 15+18AWG (19x27+19x30) Tinned Copper, PVC-NYL + FEP Insulation, Individual Beldfoil® & OA Tinned Copper Braid(65%) Shield, PVC Outer Jacket, 600V TC-ER

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		TC - Tinned Copper

Insulation

Element	Material	Thickness [in.]	Color Code
Power Pair(s)	PVC/Nylon - Polyvinyl Chloride + Nylon	0.026	Red & Black
Data Pair(s)	FEP - Fluorinated Ethylene Propylene (Foam)	0.050	Blue & White

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
PVC - Polyvinyl Chloride	0.060 in	0.460 in

Cable Diameter (Nominal): 0.460 in

Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Characteristic Impedance	Max. Current
Power Pair(s)	3.6 Ohm/1000ft			8 Amps per Conductor at 25°C
Data Pair(s)	6.9 Ohm/1000ft	12 pF/ft	120 Ohm	

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	0.40 dB/100ft	

Voltage

UL Voltage Rating

600 V (TC-ER)

Temperature

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

Bend Radius

Stationary Min.	Installation Min.
4.4 in	4.4 in

Max. Pull Tension:	190 lbs
Bulk Cable Weight:	135 lbs/1000ft
Environmental Suitability:	Indoor, Sunlight Resistance, Oil Resistance
Flammability / Fire Resistance:	UL1685 UL Loading
NEC / UL Compliance:	Article 336, TC-ER
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU, EU Directive 2011/65/EU (ROHS II), EU Directive 2012/19/EU (WEEE)
Other Standard Compliance(s):	ODVA Class 1 Thick
Notes:	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: 0.370 Revision Date: 08-25-2020

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