



Product: [187897A](#)

DeviceBus®, 2 Pr #15+18 Str TC, PVC-NYL + FEP Ins, IS+OA TC Brd, PVC Jkt, CCA Armor, PVC Jkt, CSA HL

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 Inner Jacket, Continuously Corrugated Aluminum Armor, PVC Outer Jacket, 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	15 AWG	19x27	TC - Tinned Copper
Data Pair(s)	1	18 AWG	19x30	TC - Tinned Copper

Insulation

Element	Material	Nom. Thickness	Color Code
Power Pair(s)	PVC/Nylon - Polyvinyl Chloride + Nylon	0.026 in (0.66 mm)	Red & Black
Data Pair(s)	FEP - Fluorinated Ethylene Propylene (Foam)	0.050 in (1.3 mm)	Blue & White

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%	18 AWG (19x30) TC

Inner Jacket

Material	Nom. Diameter
PVC - Polyvinyl Chloride	0.460 in (11.7 mm)

Armor

Armor Type & Material
CCAA - Continuously Corrugated Aluminum Armor

Outer Jacket

Material	Nom. Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.050 in (1.3 mm)	0.775 in (19.7 mm)

Overall Cable Diameter (Nominal):	0.775 in (19.7 mm)
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Electrical Characteristics

Electricals

Element	Nom. Characteristic Impedance	Nom. Velocity of Prop.
Power Pair(s)		
Data Pair(s)	120 Ohm	75%

High Frequency

Element
Data Pair(s)

Mechanical Characteristics

Temperature

UL Temperature
75°C Dry

Standards and Compliance

Environmental Suitability:	Sunlight Resistance
AWM Compliance:	CMG HL

History

Update and Revision:	Revision Number: 0.54 Revision Date: 05-31-2024
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