BELDEN

Product: 123084A ↗

DeviceBus®, 2 Pr #22+24 Str TC, PVC+FPE Ins, IS+OA TC Brd, PVC Jkt, AIA Armor, PVC Jkt, CM, CL2

Product Description

DeviceBus® for ODVA DeviceNet™, 2 Pair 22+24AWG (19x34+19x36) Tinned Copper, PVC+Foam PE Insulation, Individual Beldfoil® & OA Tinned Copper Braid(65%) Shield, PVC Inner Jacket, Aluminum Interlock Armor, PVC Outer Jacket, CM, CL2

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	No. of Elements	Size	Stranding	Material
Power Pair(s)	1	22 AWG	19x34	TC - Tinned Copper
Data Pair(s)	1	24 AWG	19x36	TC - Tinned Copper

Insulation

Element	Material	Nom. Thickness	Color Code
Power Pair(s)	PVC - Polyvinyl Chloride	0.021 in (0.53 mm)	Red & Black
Data Pair(s)	PE - Polyethylene (Foam)	0.026 in (0.66 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%	22 AWG (19x34) TC

Inner Jacket

Material	Nom. Diameter
PVC - Polyvinyl Chloride	0.280 in (7.11 mm)

Armor

Armor Type & Material
AIA - Aluminum Interlock Armor

Outer Jacket

Material	Nom. Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.045 in (1.1 mm)	0.560 in (14.2 mm)

Overall Cable Diameter (Nominal):	0.560 in (14.2 mm)

Electrical Characteristics

Electricals

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

High Frequency

Element
Data Pair(s)

Voltage

UL Voltage Rating
300 V (CM)

Mechanical Characteristics

Temperature

UL Temperature
75°C

Standards and Compliance

Environmental Suitability:	Sunlight Resistance
NEC / UL Compliance:	Article 725, Article 800
CEC / C(UL) Compliance:	CMG HLBCD

History

Update and Revision:	Revision Number: 0.57 Revision Date: 05-05-2023