



Product: [123083A](#)

DeviceBus®, 2 Pr #15+18 Str TC, PVC+FPE Ins, IS+OA TC Brd, CPE Jkt, AIA Armor, PVC Jkt, CMG PLTC

Product Description

DeviceBus® for ODVA DeviceNet™, 2 Pair 15+18AWG (19x27+19x30) Tinned Copper, PVC+Foam PE Insulation, Individual Beldfoil® & OA Tinned Copper Braid(65%) Shield, CPE Inner Jacket, Aluminum Interlock Armor, PVC Outer Jacket, CMG PLTC

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 | 15 AWG | 19x27 | TC - Tinned Copper |
| Data Pair(s) | 1 | 18 AWG | 19x30 | TC - Tinned Copper |

Insulation

| Element | Material | Nom. Thickness | Color Code | Notes |
|---------------|--------------------------|--------------------|--------------|-------|
| Power Pair(s) | PVC - Polyvinyl Chloride | 0.021 in (0.53 mm) | Red & Black | |
| Data Pair(s) | PE - Polyethylene (Foam) | 0.053 in (1.3 mm) | Blue & White | HDPE |

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 |
|--------------------------------|--------------------|
| CPE - Chlorinated Polyethylene | 0.476 in (12.1 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) | 0.778 in (19.8 mm) |

| | |
|-----------------------------------|--------------------|
| Overall Cable Diameter (Nominal): | 0.778 in (19.8 mm) |
|-----------------------------------|--------------------|

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) |

Voltage

| UL Voltage Rating |
|----------------------|
| 300 V (CMG, PLTC-ER) |

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: 0.55 Revision Date: 05-05-2023 |
|----------------------|---|

© 2024 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.