



Product: [7897A](#)

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

 [Request Sample](#)

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

Product Overview

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.

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 | Nom. Insulation Diameter | Color Code |
|---------------|---|--------------------|--------------------------|--------------|
| Power Pair(s) | PVC/Nylon - Polyvinyl Chloride + Nylon | 0.021 in (0.53 mm) | 0.109 in (2.77 mm) | Red & Black |
| Data Pair(s) | FEP - Fluorinated Ethylene Propylene (Foam) | 0.050 in (1.3 mm) | 0.146 in (3.71 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 |

Outer Jacket

| Material | Nom. Thickness | Nom. Diameter |
|--------------------------|-------------------|--------------------|
| PVC - Polyvinyl Chloride | 0.060 in (1.5 mm) | 0.460 in (11.7 mm) |

Outer Jacket1 Table Notes: Jacket OD +/- 0.015

Overall Cable Diameter (Nominal): 0.460 in (11.7 mm)

Electrical Characteristics

Electricals

| Element | Nom. Conductor DCR | Nom. Capacitance Cond-to-Cond | Nom. Characteristic Impedance | Nom. Velocity of Prop. | Max. Current |
|---------------|----------------------------|-------------------------------|-------------------------------|------------------------|------------------------------|
| Power Pair(s) | 3.6 Ohm/1000ft | | | | 8 Amps per Conductor at 25°C |
| Data Pair(s) | 6.9 Ohm/1000ft (23 Ohm/km) | 12 pF/ft (39 pF/m) | 120 Ohm | 75% | |

Nom Outer Shield DCR: 1.8 Ohm/1000ft (5.9 Ohm/km)

Voltage

UL Voltage Rating

600 V (TC-ER)

Mechanical Characteristics**Temperature**

| UL Temperature | Operating |
|----------------|----------------|
| 75°C Dry | -20°C to +75°C |

Bend Radius

| Stationary Min. | Installation Min. |
|-----------------|-------------------|
| 4.4 in (110 mm) | 4.4 in (110 mm) |

Max. Pull Tension: 190 lbs (86 kg)

Bulk Cable Weight: 125 lbs/1000ft

Standards and Compliance

| | |
|----------------------------------|---|
| Environmental Suitability: | Indoor, Outdoor, Sunlight Resistance, Oil Resistance |
| Flammability / Reaction to Fire: | UL 1685 UL Loading |
| NEC / UL Compliance: | Article 336, TC-ER |
| European Directive Compliance: | EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE) |
| Other Standard Compliance(s): | ODVA Class 1 Thick |

Product Notes

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.

History

Update and Revision: Revision Number: 0.579 Revision Date: 09-07-2025

Part Numbers**Variants**

| Item # | Color | Putup Type | Length | UPC | Footnote |
|---------------|----------|------------|----------|--------------|----------|
| 7897A T5U500 | Gray T5U | Reel | 500 ft | 612825190899 | C |
| 7897A T5U1000 | Gray T5U | Reel | 1,000 ft | 612825190875 | C |
| 7897A T5U2000 | Gray T5U | Reel | 2,000 ft | 612825190882 | C |

Footnote: C - CRATE REEL PUT-UP.

© 2026 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 "AS IS" 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.