



Product: [3084F](#) 

DeviceBus®, 2 Pr #22+24 Str TC, PVC+FPP Ins, IS+OA TC Brd, PVC Jkt, High Flex, CMG, CL2

 [Request Sample](#)

Product Description

DeviceBus® for ODVA DeviceNet™, 2 Pair 22+24AWG (26x36+19x36) Tinned Copper, PVC+Foam PP Insulation, Individual Beldfoil® & OA Tinned Copper Braid(65%) Shield, PVC Outer Jacket, High Flex, CMG, CL2

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 | 22 AWG | 26x36 | 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 | 0.016 in (0.41 mm) | Red & Black |
| Data Pair(s) | PP - Polypropylene | 0.028 in (0.71 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% | 22 AWG (26x36) TC |

Outer Jacket

| Material | Nom. Thickness | Nom. Diameter |
|--------------------------|--------------------|--------------------|
| PVC - Polyvinyl Chloride | 0.036 in (0.91 mm) | 0.275 in (6.99 mm) |

Overall Cable Diameter (Nominal): 0.275 in (6.99 mm)

Electrical Characteristics

Electricals

| Element | Nom. Conductor DCR | Max. Conductor DCR | Nom. Capacitance Cond-to-Cond | Nom. Characteristic Impedence | Nom. Delay | Nom. Velocity of Prop. | Max. Current |
|-----------------------|-------------------------------|--------------------|-------------------------------|-------------------------------|------------|------------------------|---|
| Power Pair(s) | 17.5 Ohm/1000ft (57.4 Ohm/km) | 17.5 Ohm/1000ft | | | | | 4 Amps Per Conductor at 24 V (per NEC CL2) (Power Pair) |
| Data Pair(s) | | 28 Ohm/100m | 12.0 pF/ft (39.4 pF/m) | 120 Ohm | 1.36 ns/ft | 75% | 4 Amps Per Conductor at 24 V (per NEC CL2) (Power Pair) |
| Nom Outer Shield DCR: | 3.2 Ohm/1000ft (10 Ohm/km) | | | | | | |

Voltage

| UL Voltage Rating |
|-------------------|
| 300 V (CMG) |

Mechanical Characteristics

Temperature

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

Bend Radius

| Stationary Min. | Installation Min. |
|-------------------|-------------------|
| 2.75 in (69.9 mm) | 2.75 in (69.9 mm) |

| | |
|--------------------|--------------------------|
| Max. Pull Tension: | 65 lbs (29 kg) |
| Bulk Cable Weight: | 41 lbs/1000ft (61 kg/km) |

Standards and Compliance

| | |
|----------------------------------|---|
| Environmental Suitability: | Indoor, Outdoor, Sunlight Resistance, Oil Resistance |
| Flammability / Reaction to Fire: | UL1685 FT4 Loading, 1202 |
| CPR Compliance: | CPR Euroclass: Eca |
| NEC / UL Compliance: | Article 725, Article 800, CL2, CMG |
| AWM Compliance: | I/II A |
| CEC / C(UL) Compliance: | CMG |
| 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) |
| UK Regulation Compliance: | UKCA Mark |
| APAC Compliance: | China RoHS II (GB/T 26572-2011) |
| Other Standard Compliance(s): | ODVA Class 2 Thin |

Product Notes

| | |
|--------|--|
| Notes: | Hi-Flex. Thin. Flex Test Results: "S-Bend" Flex Test - 4" Diameter Wheels, 2 lbs. tension: 150, 000 Cycles Averaged. +/-90 Degree Flex Test: 2" Diameter, 2 lbs. tension - 8500 Cycles Averaged. Flex tests were conducted at less than the recommended cable minimum bend radius. Actual cable performance will depend on the individual application. Meter marks on jacket to aid users in installation. |
|--------|--|

History

| | |
|----------------------|--|
| Update and Revision: | Revision Number: 0.699 Revision Date: 09-25-2025 |
|----------------------|--|

Part Numbers

Variants

| Item # | Color | Putup Type | Length | UPC | Footnote |
|---------------|----------|------------|----------|--------------|----------|
| 3084F T5U500 | Gray T5U | Reel | 500 ft | 612825140955 | C N |
| 3084F T5U1000 | Gray T5U | Reel | 1,000 ft | 612825140931 | C |
| 3084F T5U2000 | Gray T5U | Reel | 2,000 ft | 612825140948 | C |
| 3084F T5U5000 | Gray T5U | Reel | 5,000 ft | 612825140962 | C Z |

| | |
|-----------|---|
| Footnote: | C - CRATE REEL PUT-UP., N - FINAL PUT-UP LENGTH MAY VARY -0% TO +10% FROM LENGTH SHOWN., Z - FINAL PUT-UP MAY VARY (= OR -) 10% FOR SPOOLS OR REELS AND (+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN. |
|-----------|---|

© 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 "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.