



Product: [1346F](#)

DeviceBus® for ODVA DeviceNet™, 2 Pr #22+24 Str TC, PVC+PO Ins, IS+OA TC Brd, TPE Jkt, CMG

Request Sample

Product Description

DeviceBus® for ODVA DeviceNet™, 2 Pair 22+24AWG (154x44+105x44) Tinned Copper, PVC+PO Insulation, Individual Beldfoil® & OA Tinned Copper Braid(65%) Shield, TPE Outer Jacket, CMG

Technical Specifications

Product Overview

| | |
|------------------------|--|
| Suitable Applications: | harsh environment, IIoT, factory or process automation, video, audio, data communication, etc. |
|------------------------|--|

Physical Characteristics (Overall)

Conductor

| AWG | Stranding | Material | No. of Pairs |
|-----|-----------|--------------------|--------------|
| 22 | 154x44 | TC - Tinned Copper | 1 |
| 24 | 105x44 | TC - Tinned Copper | 1 |

| | |
|------------------|---|
| Conductor Count: | 4 |
|------------------|---|

Insulation

| Element | Material | Nominal Wall Thickness |
|---------|--------------------------|------------------------|
| 22 AWG | PVC - Polyvinyl Chloride | 0.016 in |
| 24 AWG | PE - Polyethylene (Foam) | 0.026 in |

Color Chart

| Number | Color |
|-------------|--------------|
| 22 AWG Pair | Red & Black |
| 24 AWG Pair | Blue & White |

Inner Shield

| Type | Material | Material Trade Name | Coverage [%] | Drainwire Material | Drainwire AWG | Drainwire Construction n x D |
|------|-------------------------|---------------------|--------------|--------------------|---------------|------------------------------|
| Tape | Bi-Laminate (Alum+Poly) | Beldfoil® | 100% | TC - Tinned Copper | 22 | 26x36 |

Outer Shield

| Type | Material | Coverage [%] |
|-------|--------------------|--------------|
| Braid | Tinned Copper (TC) | 65% |

Outer Jacket

| Material | Nominal Diameter | Nominal Wall Thickness |
|-------------------------------|------------------|------------------------|
| TPE - Thermoplastic Elastomer | 0.275 in | 0.036 in |

Electrical Characteristics

Conductor DCR

| Element | Max. Conductor DCR | Nominal Conductor DCR | Nominal Outer Shield DCR |
|---------|--------------------|-----------------------|--------------------------|
| 22 AWG | 17.5 Ohm/1000ft | | 3.2 Ohm/1000ft |
| 24 AWG | 28 Ohm/100m | 28.0 Ohm/1000ft | |

Capacitance

| Element | Nom. Capacitance Conductor to Conductor |
|----------------|---|
| 24 AWG Pair(s) | |
| | 12 pF/ft |

Impedance

| Nominal Characteristic Impedance | Nominal Characteristic Impedance Description |
|----------------------------------|--|
| 100 Ohm | 24 AWG Pair |
| 120 Ohm | |

Delay

| Max. Delay | Max. Delay Description | Nominal Velocity of Propagation (VP) [%] | Nominal Velocity of Propagation (VP) Description |
|------------|------------------------|--|--|
| 1.36 ns/ft | 24 AWG Pair | | 24 AWG Pair |
| | | 75% | |

High Frequency

| Element | Frequency [MHz] |
|------------------|-----------------|
| 24 AWG Pair Only | 0.125 MHz |
| | 0.5 MHz |
| | 1 MHz |

Current

| Max. Recommended Current [A] |
|---------------------------------------|
| 5 Amps per Conductor at 25°C |
| 5 Amps per Conductor at 25°C (22 AWG) |

Voltage

| UL Description | UL Voltage Rating |
|----------------|-------------------|
| CL2, CMG | 300 V RMS |

Temperature Range

| | |
|------------------------------|----------------|
| UL Temp Rating: | 75°C |
| Operating Temperature Range: | -30°C to +75°C |

Mechanical Characteristics

| | |
|------------------------------|---------------|
| Oil Resistance: | Yes |
| Bulk Cable Weight: | 41 lbs/1000ft |
| Max. Pull Tension: | 65 lbs |
| Min. Bend Radius/Minor Axis: | 2.75 in |

Standards

| | |
|----------------------|-------------------|
| NEC Articles: | Article 800 |
| NEC/(UL) Compliance: | CL2, CMG |
| CSA AWM Compliance: | AWM I/II A |
| CPR Euroclass: | Eca |
| Other Specification: | ODVA Class 2 Thin |

Applicable Environmental and Other Programs

| | |
|--|-------------------------------|
| EU Directive 2000/53/EC (ELV): | Yes |
| EU Directive 2003/11/EC (BFR): | Yes |
| EU Directive 2011/65/EU (RoHS 2): | Yes |
| EU Directive 2012/19/EU (WEEE): | Yes |
| EU Directive 2015/863/EU (RoHS 2 amendment): | Yes |
| EU Directive Compliance: | EU Directive 2003/11/EC (BFR) |
| EU CE Mark: | Yes |
| MII Order #39 (China RoHS): | Yes |

Suitability

| | |
|------------------------------------|-----|
| Suitability - Oil Resistance: | Yes |
| Suitability - Sunlight Resistance: | Yes |

Flammability, LSOH, Toxicity Testing

| | |
|--------------------|--------------------|
| UL Flammability: | UL1685 FT4 Loading |
| IEC Flammability: | IEC 60332-1-2 |
| UL voltage rating: | 300 V RMS |

Plenum/Non-Plenum

| | |
|---------------|----|
| Plenum (Y/N): | No |
|---------------|----|

Related Part Numbers

Variants

| Item # | Color | Put-Up Type | Length | UPC |
|---------------|----------|-------------|----------|--------------|
| 1346F T5U1000 | Gray T5U | Reel | 1,000 ft | 612825112334 |

| | |
|-----------|------------------------|
| Footnote: | C - CRATE REEL PUT-UP. |
|-----------|------------------------|

Product Notes

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| Notes: | Hi-Flex. Thin. Meter marks on jacket to aid users in installation. |
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History

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| Update and Revision: | Revision Number: 0.518 Revision Date: 05-05-2023 |
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