



Product: [3119A](#)

DeviceBus® for InterBus®-S, 3 Pr #18+24 Str TC, PVC+PO Ins, OS+TC Brd, PUR Jkt, AWM 20233

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Product Description

DeviceBus® for InterBus®-S, 3 Pair 18+24AWG (7x26+7x32) Tinned Copper, PVC+PO Insulation, Overall Beldfoil®+Tinned Copper Braid(90%) Shield, PUR Outer Jacket, AWM 20233

Technical Specifications

Product Overview

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

Physical Characteristics (Overall)

Conductor

| Element | AWG | Stranding | Material | No. of Conductors | No. of Pairs |
|--------------|-----|-----------|--------------------|-------------------|--------------|
| Pair(s) | 24 | 7x32 | TC - Tinned Copper | | 3 |
| Conductor(s) | 18 | 7x26 | TC - Tinned Copper | 3 | |

| | |
|------------------|---|
| Conductor Count: | 9 |
|------------------|---|

Insulation

| Element | Material | Nominal Wall Thickness |
|---------|--------------------------|------------------------|
| 24 AWG | PE - Polyethylene | 0.016 in |
| 18 AWG | PVC - Polyvinyl Chloride | 0.01 in |

Color Chart

| Number | Color |
|--------|----------------|
| 1 | White & Brown |
| 2 | Pink & Gray |
| 3 | Green & Yellow |
| 4 | |
| 5 | |
| 6 | |

Color Chart 2

| Color |
|--------------|
| Red |
| Blue |
| Yellow/Green |

Outer Shield

| Type | Layer | Material | Material Trade Name | Coverage [%] | Drainwire Material | Drainwire AWG | Drainwire Construction n x D |
|-------|-------|-------------------------|---------------------|--------------|--------------------|---------------|------------------------------|
| Tape | 1 | Bi-Laminate (Alum+Poly) | Beldfoil® | 100% | TC - Tinned Copper | 24 | 7x32 |
| Braid | 2 | Tinned Copper (TC) | | 90% | | | |

Outer Jacket

| Material | Nominal Diameter | Nominal Wall Thickness |
|--------------------|------------------|------------------------|
| PUR - Polyurethane | 0.333 in | 0.035 in |

Electrical Characteristics

Conductor DCR

| Element | Nominal Conductor DCR | Nominal Outer Shield DCR |
|---------|-----------------------|--------------------------|
| 24 AWG | 23.4 Ohm/1000ft | 2.7 Ohm/1000ft |
| 18 AWG | 6.6 Ohm/1000ft | |

Capacitance

| Nom. Capacitance Conductor to Shield |
|--------------------------------------|
| 15.4 pF/ft |
| 15.4 pF/ft |

Impedance

| Nominal Characteristic Impedance |
|----------------------------------|
| 100 Ohm |
| 100 Ohm |

Delay

| Nominal Velocity of Propagation (VP) [%] | Nominal Velocity of Propagation (VP) Description |
|--|--|
| 66% | 24 AWG |

Current

| Element | Max. Recommended Current [A] |
|---------|------------------------------|
| 24 AWG | 2.1 Amps per Conductor |
| 18 AWG | 4.8 Amps per Conductor |

Voltage

| UL Description | UL Voltage Rating |
|----------------|-------------------|
| | UL AWM 20233 |
| 300 V | |

Temperature Range

| | |
|------------------------------|----------------|
| UL Temp Rating: | 80°C |
| Operating Temperature Range: | -40°C to +80°C |

Mechanical Characteristics

| | |
|------------------------------|---------------|
| Oil Resistance: | Yes |
| Bulk Cable Weight: | 62 lbs/1000ft |
| Max. Pull Tension: | 100 lbs |
| Min. Bend Radius/Minor Axis: | 3 in |

Standards

| | |
|--------------------------|-----------|
| UL AWM Style Compliance: | AWM 20233 |
| CPR Euroclass: | Eca |

Applicable Environmental and Other Programs

| | |
|--|-------------------------------|
| EU Directive 2000/53/EC (ELV): | 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 - Sunlight Resistance: | Yes |
|------------------------------------|-----|

Flammability, LSOH, Toxicity Testing

| | |
|--------------------|--------------------------------|
| IEC Flammability: | IEC 60332-1-2 |
| UL voltage rating: | 300 V RMS (UL AWM Style 20233) |

Plenum/Non-Plenum

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

Related Part Numbers

Variants

| Item # | Color | Put-Up Type | Length | UPC |
|---------------|-----------|-------------|----------|--------------|
| 3119A Y5P500 | Green Y5P | Reel | 500 ft | 612825141976 |
| 3119A Y5P1000 | Green Y5P | Reel | 1,000 ft | 612825141969 |

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

History

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|----------------------|--|
| Update and Revision: | Revision Number: 0.423 Revision Date: 05-05-2023 |
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