

**3119A Multi-Conductor - DeviceBus® for Phoenix Contact InterBus-S®**

For more Information
please call

1-800-Belden1

**Description:**

18 and 24 AWG stranded tinned copper conductors, PVC insulation (power), PE insulation (data), overall Beldfoil® shield (100% coverage) plus a tinned copper braid (90% coverage), polyurethane jacket.

Physical Characteristics (Overall)**Conductor****AWG:**

| # Conductors | # Pairs | AWG | Stranding | Conductor Material | Dia. (mm) |
|--------------|---------|-----|-----------|--------------------|-----------|
| | 3 | 24 | 7x32 | TC - Tinned Copper | 0.610 |
| 3 | | 18 | 7x26 | TC - Tinned Copper | 1.524 |

Total Number of Conductors: 9

Insulation**Insulation Material:**

| Insulation Material | AWG |
|--------------------------|-----|
| PE - Polyethylene | 24 |
| PVC - Polyvinyl Chloride | 18 |

Outer Shield**Outer Shield Material:**

| Layer # | Outer Shield Trade Name | Type | Outer Shield Material | Coverage (%) |
|---------|-------------------------|-------|------------------------------|--------------|
| 1 | Beldfoil® | Tape | Aluminum Foil-Polyester Tape | 100 |
| 2 | | Braid | TC - Tinned Copper | 90 |

Outer Shield Drain Wire AWG:

| AWG | Stranding | Drain Wire Conductor Material |
|-----|-----------|-------------------------------|
| 24 | 7x32 | TC - Tinned Copper |

Outer Shield Drain Wire Diameter: .024

Outer Jacket**Outer Jacket Material:**

| Outer Jacket Material |
|-----------------------|
| PUR - Polyurethane |

Overall Cable**Overall Cabling Color Code Chart:**

| Number | Color | AWG |
|--------|---------------------|-----|
| 1 | White & Brown | 24 |
| 2 | Red | 18 |
| 3 | Pink & Gray | 24 |
| 4 | Blue | 18 |
| 5 | Yellow & Green | 24 |
| 6 | Green/Yellow Stripe | 18 |

Overall Nominal Diameter: 8.458 mm

Mechanical Characteristics (Overall)

Operating Temperature Range: -40°C To +80°C

UL Temperature Rating: 80°C (UL AWM Style 20233)

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| | |
|-----------------------------------|--------------|
| Bulk Cable Weight: | 92.268 Kg/Km |
| Max. Recommended Pulling Tension: | 444.820 N |
| Min. Bend Radius/Minor Axis: | 76.200 mm |

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

| | |
|---------------------------------------|-----------------------------|
| AWM Specification: | UL Style 20233 (300 V 80°C) |
| EU CE Mark: | Yes |
| EU Directive 2000/53/EC (ELV): | Yes |
| EU Directive 2002/95/EC (RoHS): | Yes |
| EU RoHS Compliance Date (mm/dd/yyyy): | 10/01/2005 |
| EU Directive 2002/96/EC (WEEE): | Yes |
| EU Directive 2003/11/EC (BFR): | Yes |
| CA Prop 65 (CJ for Wire & Cable): | Yes |
| MII Order #39 (China RoHS): | Yes |

Suitability

| | |
|----------------------|------|
| Sunlight Resistance: | High |
|----------------------|------|

Plenum/Non-Plenum

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

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

| Impedance (Ohm) |
|-----------------|
| 100 |

Nom. Capacitance Conductor to Shield:

| Capacitance (pF/m) |
|--------------------|
| 50.5274 |

Nominal Velocity of Propagation:

| Description | VP (%) |
|-------------|--------|
| 24 AWG | 66 |

Nom. Conductor DC Resistance:

| Description | DCR @ 20°C (Ohm/km) |
|-------------|---------------------|
| 24 | 76.7754 |
| 18 | 21.6546 |

Nominal Outer Shield DC Resistance:

| DCR @ 20°C (Ohm/km) |
|---------------------|
| 8.8587 |

Max. Operating Voltage - UL:

| Voltage |
|--------------------------------|
| 300 V RMS (UL AWM Style 20233) |

Max. Recommended Current:

| Description | Current |
|-------------|---------|
| 24 AWG | 2.1 |
| 18 AWG | 4.8 |

Notes (Overall)

Notes: Oil Resistance: High

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|--------|-------|-------------|-------|-------|-----------|
|--------|-------|-------------|-------|-------|-----------|

METRIC MEASUREMENT VERSION

3119A Multi-Conductor - DeviceBus® for Phoenix Contact InterBus-S®

| | | | | | |
|---------------|--------|-----------|-----------|---|----------------------------|
| 3119A Y5P1000 | 305 MT | 32.205 KG | GREEN Y5P | C | 3PR #24 PE 3 #18 PVC SH PU |
| 3119A Y5P500 | 152 MT | 16.103 KG | GREEN Y5P | C | 3 PR#24 PE 3#18 PVC SH PU |

Notes:

C = CRATE REEL PUT-UP.

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