

## 3120A Multi-Conductor - DeviceBus® for Phoenix Contact InterBus®-S



For more Information  
please call

1-800-Belden1



### General Description:

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

### Physical Characteristics (Overall)

#### Conductor

##### AWG:

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

#### Insulation

##### Insulation Material:

Insulation Material
PE - Polyethylene

#### 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 Jacket

##### Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (mm)
PUR - Polyurethane	0.889

#### Overall Cable

Overall Nominal Diameter: 7.036 mm

#### Pair

##### Pair Color Code Chart:

Number	Color
1	White & Brown
2	Pink & Gray
3	Yellow & Green

### Mechanical Characteristics (Overall)

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

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

Bulk Cable Weight: 80.363 Kg/Km

Max. Recommended Pulling Tension: 146.791 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 Directive 2011/65/EU (ROHS II): Yes

EU CE Mark: Yes

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EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004
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
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### Plenum/Non-Plenum

Plenum (Y/N):	No
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## Electrical Characteristics (Overall)

### Nom. Characteristic Impedance:

Impedance (Ohm)

100

### Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)

50.5274

### Nominal Velocity of Propagation:

VP (%)

66

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

85.306

### 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:

Current

2.7 Amps per conductor @ 25°C

## Notes (Overall)

Notes: Oil Resistance: High

## Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
3120A G7W1000	1,000 FT	49.000 LB	GREEN, MATTE	C	3 PR #24 PE SH PU
3120A G7W500	500 FT	26.000 LB	GREEN, MATTE	C	3 PR #24 PE SH PU

### Notes:

C = CRATE REEL PUT-UP.

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