



Part Number: 3120A

DeviceBus® for Phoenix Contact, (3 pr) 24 AWG (7x32)
TC, PE/PUR, Foil+Braid Shld

Product Description

Three 24 AWG stranded (7x32) tinned copper conductors, polyethylene insulation, overall Beldfoil® shield (100% coverage) plus a tinned copper braid (90% coverage), polyurethane jacket.

Technical Specifications

Construction and Dimensions

Conductor:

AWG	Stranding	Material	Nominal Diameter	No. of Pairs
24	7x32	TC - Tinned Copper	0.024 in	3

Insulation:

Material
PE - Polyethylene

Color Chart 1:

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

Outershield 1:

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Aluminum Foil-Polyester Tape	Beldfoil®	100 %
Braid	2	TC - Tinned Copper		90 %

Outerjacket 1:

Material	Nominal Diameter	Nominal Wall Thickness
PUR - Polyurethane	0.277 in	0.035 in

Electrical Characteristics

Conductor DCR:

Nominal Conductor DCR	Nominal Outer Shield DCR
26 Ohm/1000ft	2.7 Ohm/1000ft

Capacitance:

Nom. Capacitance Conductor to Shield
15.4 pF/ft

Impedance:

Nominal Characteristic Impedance
100 Ohm

Delay:

Nominal Velocity of Propagation (VP) [%]
66 %

Current:

Max. Recommended Current [A]
2.7 Amps per conductor @ 25°C

Voltage:

UL Voltage Rating
300 V RMS (UL AWM Style 20233)

Use

Suitability - Sunlight Resistance:	High
Max Recommended Pulling Tension:	33 lbs

Safety

Temperature Range

Operating Temp Range:	-40°C To +80°C
UL Temp Rating:	80°C (UL AWM Style 20233)

Mechanical Characteristics

Min Bend Radius/Minor Axis:	3 in
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Part Number

Plenum (Y/N):	No
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Standards

CA Prop 65 (CJ for Wire & Cable):	CA Prop 65 (CJ for Wire & Cable)
MII Order #39 (China RoHS):	MII Order #39 (China RoHS)
UL AWM Style:	AWM Specification
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	EU CE Mark

History

Notes:	Oil Resistance: High
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Product Variants

Part Number	Color	Put-Up Type	Length
3120A G7W1000	GREEN, MATTE	Reel	1000 ft
3120A G7W5000	GREEN, MATTE	Reel	5000 ft
3120A G7W500	GREEN, MATTE	Reel	500 ft

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