



Part Number: 3119A

DeviceBus® for Phoenix Contact, (3 pr) 24 AWG (7x32),
(3) 18 AWG (7x26) TC, PE/PVC/PUR, Foil Shld+Braid

Product Description

Three 24 AWG pairs stranded (7x32) tinned copper conductors, three 18 AWG stranded (7x26) tinned copper conductors, PVC insulation (power), polyethylene insulation (data), overall Beldfoil® shield (100% coverage) plus a tinned copper braid (90% coverage), polyurethane jacket.

Product Specifications

Technical Specifications

Construction and Dimensions

Conductor:

AWG	Stranding	Material	Nominal Diameter	No. of Conductors	No. of Pairs
24	7x32	TC - Tinned Copper	0.024 in		3
18	7x26	TC - Tinned Copper	0.06 in	3	
Total Number of Conductors:				9	

Insulation:

Element	Material
24	PE - Polyethylene
18	PVC - Polyvinyl Chloride

Color Chart 1:

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

Outershield 1:

Type	Layer	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire Diameter	Drainwire AWG	Drainwire Construction n x D
Tape	1	Aluminum Foil-Polyester Tape	Beldfoil®	100 %	TC - Tinned Copper	0.024 mm	24	7x32 mm
Braid	2	TC - Tinned Copper		90 %				

Outerjacket 1:

Material	Nominal Diameter
PUR - Polyurethane	0.333 in

Electrical Characteristics

Conductor DCR:

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

Capacitance:

Nom. Capacitance Conductor to Shield
15.4 pF/ft

Impedance:

Nominal Characteristic Impedance
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 A
18 AWG	4.8 A

Voltage:

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

Use

Suitability - Sunlight Resistance:	High
Max Recommended Pulling Tension:	100 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
3119A Y5P1000	GREEN Y5P	Reel	1000 ft
3119A Y5P500	GREEN Y5P	Reel	500 ft

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