



Part Number: 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

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	No. of Conductors	No. of Pairs
24	7x32	TC - Tinned Copper		3
18	7x26	TC - Tinned Copper	3	

Conductor Count: 9

Insulation

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

Color Chart

Number	Color
1	White & Brown Pair
2	Pink & Grey Pair
3	Green & Yellow Pair
4	Red
5	Blue
6	Yellow/Green

Outer Shield Material

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

Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
PUR - Polyurethane	0.333 in	0.0353 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

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 A

18 AWG | 4.8 A

Voltage

UL Voltage Rating

300 V RMS (UL AWM Style 20233)

Temperature Range

UL Temp Rating: 80°C

Operating Temp Range: -40°C To +80°C

Mechanical Characteristics

Oil Resistance: Yes

Bulk Cable Weight: 62 lbs/1000ft

Max Recommended Pulling Tension: 100 lbs

Min Bend Radius/Minor Axis: 3 in

Standards

UL AWM Style: 20233

CPR Euroclass: Eca

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV): Yes

EU Directive 2011/65/EU (ROHS II): Yes

EU Directive 2012/19/EU (WEEE): Yes

EU Directive 2015/863/EU: Yes

EU Directive Compliance: EU Directive 2003/11/EC (BFR)

EU CE Mark: Yes

EU RoHS Compliance Date (yyyy-mm-dd): 2005-10-01

CA Prop 65 (CJ for Wire & Cable): Yes

MII Order #39 (China RoHS): Yes

Suitability

Suitability - Sunlight Resistance: Yes

Flammability, LS0H, Toxicity Testing

ISO/IEC Flammability: IEC 60332-1-2

UL voltage rating: 300 V RMS (UL AWM Style 20233)

Plenum/Non-Plenum

Plenum (Y/N): No

Part Number

Variants

Item #	Color	UPC	Length	Footnote
3119A Y5P1000	Green Y5P	612825141969	1,000 ft	C
3119A Y5P500	Green Y5P	612825141976	500 ft	C

History

Update and Revision:	Revision Number: 0.279 Revision Date: 08-22-2019
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