



Product: [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

Product Overview

Suitable Applications:	harsh environment, IIoT, factory or process automation, video, audio, data communication, etc.
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Physical Characteristics (Overall)

Conductor					
Element	AWG	Stranding	Material	No. of Conductors	No. of Pairs
Pair(s)	24	7x32	TC - Tinned Copper		3
Conductor(s)	18	7x26	TC - Tinned Copper	3	
Conductor Count:				9	

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

Color Chart	
Number	Color
1	White & Brown
2	Pink & Gray
3	Green & Yellow
4	
5	
6	

Color Chart 2

Color
Red
Blue
Yellow/Green

Outer Shield							
Type	Layer	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Tape	1	Bi-Laminate (Alum+Poly)	Beldfoil®	100%	TC - Tinned Copper	24	7x32
Braid	2	Tinned Copper (TC)		90%			

Outer Jacket		
Material	Nominal Diameter	Nominal Wall Thickness
PUR - Polyurethane	0.333 in	0.035 in

Electrical Characteristics

Conductor DCR

Element	Nominal Conductor DCR	Nominal Outer Shield DCR
24 AWG	23.4 Ohm/1000ft	2.7 Ohm/1000ft
18 AWG	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 Amps per Conductor
18 AWG	4.8 Amps per Conductor

Voltage

UL Description	UL Voltage Rating
	UL AWM 20233
300 V	

Temperature Range

UL Temp Rating:	80°C
Operating Temperature Range:	-40°C to +80°C

Mechanical Characteristics

Oil Resistance:	Yes
Bulk Cable Weight:	62 lbs/1000ft
Max. Pull Tension:	100 lbs
Min. Bend Radius/Minor Axis:	3 in

Standards

UL AWM Style Compliance:	AWM 20233
CPR Euroclass:	Eca

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2011/65/EU (RoHS 2):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU (RoHS 2 amendment):	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
MIL Order #39 (China RoHS):	Yes

Suitability

Suitability - Sunlight Resistance:	Yes
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Flammability, LSOH, Toxicity Testing

IEC Flammability:	IEC 60332-1-2
UL voltage rating:	300 V RMS (UL AWM Style 20233)

Plenum/Non-Plenum

Plenum (Y/N):	No
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Related Part Numbers

Variants

Item #	Color	Put-Up Type	Length	UPC
3119A Y5P500	Green Y5P	Reel	500 ft	612825141976
3119A Y5P1000	Green Y5P	Reel	1,000 ft	612825141969

Footnote:	C - CRATE REEL PUT-UP.
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History

Update and Revision:	Revision Number: 0.424 Revision Date: 04-30-2024
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