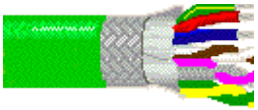
Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION

3119A Multi-Conductor - DeviceBus® for Phoenix Contact InterBus-S®



For more Information
please call

1-800-Belden1

Description:

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

Physical Characteristics (Overall)

Conductor

AWG:

# Conductors	# Pairs	AWG	Stranding	Conductor Material	Dia. (in.)
	3	24	7x32	TC - Tinned Copper	0.024
3		18	7x26	TC - Tinned Copper	0.060

Insulation

Insulation Material:

Insulation Material	AWG
PE - Polyethylene	24
PVC - Polyvinyl Chloride	18

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 Shield Drain Wire AWG:

AWG	Stranding	Drain Wire Conductor Material
24	7x32	TC - Tinned Copper

Outer Shield Drain Wire Diameter: .024

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PUR - Polyurethane

Overall Cable

Overall Cabling Color Code Chart:

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

Overall Nominal Diameter: 0.333 in.

Mechanical Characteristics (Overall)

Operating Temperature Range:	-40°C To +80°C
UL Temperature Rating:	80°C (UL AWM Style 20233)
Bulk Cable Weight:	62 lbs/1000 ft.

Max. Recommended Pulling Tension:	100 lbs.
Min. Bend Radius (Install)/Minor Axis:	3 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

AWM Specification:	UL Style 20233 (300 V 80°C)
EU CE Mark:	Yes
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	10/01/2005
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

Plenum/Non-Plenum

Plenum (Y/N):	No

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)
100

Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)
15.4

Nominal Velocity of Propagation:

Description	VP (%)
24 AWG	66

Nom. Conductor DC Resistance:

Description	DCR @ 20°C (Ohm/1000 ft)
24	23.4
18	6.6

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
2.7

Max. Operating Voltage - UL:

Voltage
300 V RMS (UL AWM Style 20233)

Max. Recommended Current:

Description	Current
24 AWG	2.1
18 AWG	4.8

Notes (Overall)

Notes: Oil Resistance: High

Related Documents:

No related documents are available for this product

Put Ups and Colors:

3119A Multi-Conductor - DeviceBus® for Phoenix Contact InterBus-S®

Item #	Putup	Ship Weight	Color	Notes	Item Desc
3119A Y5P1000	1,000 FT	71.000 LB	GREEN Y5P	C	3PR #24 PE 3 #18 PVC SH PU
3119A Y5P500	500 FT	35.500 LB	GREEN Y5P	C	3 PR#24 PE 3#18 PVC SH PU

Notes:
C = CRATE REEL PUT-UP.

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