

3120A Multi-Conductor - DeviceBus® for Phoenix Contact InterBus®-S



For more Information
please call

1-800-Belden1



General Description:

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

Physical Characteristics (Overall)

Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material	Dia. (mm)
3	24	7x32	TC - Tinned Copper	0.610

Insulation

Insulation Material:

Insulation Material
PE - Polyethylene

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 Jacket

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (mm)
PUR - Polyurethane	0.889

Overall Cable

Overall Nominal Diameter: 7.036 mm

Pair

Pair Color Code Chart:

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

Mechanical Characteristics (Overall)

Operating Temperature Range: -40°C To +80°C

UL Temperature Rating: 80°C (UL AWM Style 20233)

Bulk Cable Weight: 80.363 Kg/Km

Max. Recommended Pulling Tension: 146.791 N

Min. Bend Radius/Minor Axis: 76.200 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

AWM Specification: UL Style 20233 (300 V 80°C)

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

EU CE Mark: Yes

3120A Multi-Conductor - DeviceBus® for Phoenix Contact InterBus®-S

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004
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/m)
50.5274

Nominal Velocity of Propagation:

VP (%)
66

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
85.306

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)
8.8587

Max. Operating Voltage - UL:

Voltage
300 V RMS (UL AWM Style 20233)

Max. Recommended Current:

Current
2.7 Amps per conductor @ 25°C

Notes (Overall)

Notes: Oil Resistance: High

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
3120A G7W1000	1,000 FT	49.000 LB	GREEN, MATTE	C	3 PR #24 PE SH PU
3120A G7W500	500 FT	26.000 LB	GREEN, MATTE	C	3 PR #24 PE SH PU
3120A G7W5000	5,000 FT	240.000 LB	GREEN, MATTE	C	3 PR #24 PE SH PU

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 1 Revision Date: 11-30-2010

© 2019 Belden, Inc.
All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications

3120A Multi-Conductor - DeviceBus® for Phoenix Contact InterBus®-S

described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product. Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 2014/35/EU).