



**Part Number:** 3132A

ControlBus™, (1) 18 AWG Solid BCCS, FFEP/PVDF, Foil+Braid Shld, CMP

## Product Description

One 18 AWG solid bare copper-covered steel conductor, plenum, foam FEP insulation, Duobond® IV quad shield (100% coverage), fluorocopolymer (PVDF) jacket.

## Product Specifications

## Technical Specifications

<b>Suitable Applications:</b>	Plenum RG-6/U Type
-------------------------------	--------------------

## Construction and Dimensions

### Conductor:

AWG	Stranding	Material	Nominal Diameter	No. of Coax
18	Solid	BCCS - Bare Copper Covered Steel	0.04 in	1

<b>Total Number of Conductors:</b>	1
------------------------------------	---

### Insulation:

Material	Nominal Diameter
FFEP - Foam Fluorinated Ethylene Propylene	0.17 in

### Outershield 1:

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Bonded Aluminum Foil-Polyester Tape-Aluminum Foil	Bonded Duofoil®	100 %
Braid	2	AL - Aluminum		60 %
Tape	3	Aluminum Foil-Polyester Tape-Aluminum Foil	Duofoil®	100 %
Braid	4	AL - Aluminum		40 %

## Outerjacket 1:

Material	Nominal Diameter
PVDF - Fluorocopolymer	0.274 in
<b>Print Legend:</b>	CONTROLBUS(R) BY BELDEN - 3132A RG-6/U TYPE 150C QUAD SHIELD 1C18 E108998 (UL) CMP OR C(UL) CMP

## Electrical Characteristics

### Conductor DCR:

Nominal Conductor DCR	Nominal Outer Shield DCR
28 Ohm/1000ft	7.2 Ohm/1000ft

### Capacitance:

Nom. Capacitance Conductor to Shield	
16.3 pF/ft	
<b>Other Electrical Characteristic 1:</b>	Tilt 5 to 10 MHz: .48 dB/100 M
<b>Other Electrical Characteristic 2:</b>	Tilt 10 to 20 MHz: .93 dB/100 M
<b>Other Electrical Characteristic 3:</b>	Sweep Tested 5 to 400MHz.

### Impedance:

Nominal Characteristic Impedance	Nominal Characteristic Tolerance
75 Ohm	± 3 Ohm

### High Frequency (Nominal/Typical):

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.36 db/100ft
2 MHz	0.38 db/100ft
5 MHz	0.5 db/100ft
10 MHz	0.65 db/100ft
20 MHz	0.95 db/100ft
50 MHz	1.5 db/100ft
100 MHz	2.12 db/100ft
200 MHz	2.99 db/100ft
300 MHz	3.66 db/100ft
400 MHz	4.23 db/100ft

### Delay:

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.2 ns/ft	82 %

## Phase Delay Distortion:

f/B	%PDD/100M (5MB)
0.5	-0.54
1	-0.19
1.5	0
2	0.16
2.5	0.3

## High Freq:

Frequency [MHz]	Min. SRL (Structural Return Loss)
1 MHz	23 dB
2 MHz	
5 MHz	
10 MHz	
20 MHz	
50 MHz	
100 MHz	
200 MHz	
300 MHz	
400 MHz	
400 MHz	
5 MHz	

## Inductance:

Nominal Inductance
0.093 $\mu$ H/ft

## Voltage:

UL Voltage Rating
300 V RMS

## Use

Suitability - Burial:	Yes
Suitability - Outdoor:	Yes
Max Recommended Pulling Tension:	104 lbs

## Safety

CSA Flammability:	FT6
UL Flammability:	NFPA 262

## Temperature Range

Operating Temp Range:	-20°C To +150°C
UL Temp Rating:	150°C

## Mechanical Characteristics

Min Bend Radius/Minor Axis:	2.75 in
-----------------------------	---------

## Part Number

Plenum (Y/N):	Yes
Non-Plenum Number:	3131A

## Standards

CA Prop 65 (CJ for Wire & Cable):	CA Prop 65 (CJ for Wire & Cable)
CEC/C(UL) Specification:	CEC/C(UL) Specification
IEEE Specification:	IEEE Specification
MII Order #39 (China RoHS):	MII Order #39 (China RoHS)
NEC/(UL) Specification:	NEC/(UL) Specification
RG Type:	RG Type
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	EU CE Mark

## History

Notes:	Tap Marks Every 2.6 Meters to aid in users installation.
--------	--

## Product Variants

Part Number	Color	Put-Up Type	Length
3132A F2V1000	GRAY, DEC	Reel	1000 ft

© 2016 Belden, Inc.

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications 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 73/23/EEC), as amended by directive 93/68/EEC.