



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

Suitable Applications:	Plenum RG-6/U Type
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Construction and Dimensions

Conductor:

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

Total Number of Conductors:	1
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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
Print Legend:	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	
Other Electrical Characteristic 1:	Tilt 5 to 10 MHz: .48 dB/100 M
Other Electrical Characteristic 2:	Tilt 10 to 20 MHz: .93 dB/100 M
Other Electrical Characteristic 3:	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 µH/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
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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.
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Product Variants

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

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