



**Part Number:** 3094A

ControlBus™, (1) 14 AWG Solid BCCS, FPE/PVC,  
Foil+Braid Shld, CMR

## Product Description

One 14 AWG solid bare copper-covered steel conductor, foam polyethylene (FPE) insulation, Duobond® IV Quad Shield (100% coverage), PVC Jacket.

## Product Specifications

## Technical Specifications

<b>Suitable Applications:</b>	RG-11/U Type
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## Construction and Dimensions

### Conductor:

AWG	Stranding	Material	Nominal Diameter	No. of Coax
14	Solid	BCCS - Bare Copper Covered Steel	0.064 in	1

<b>Total Number of Conductors:</b>	1
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### Insulation:

Material	Nominal Diameter
Gas-injected FPE - Foam Polyethylene	0.28 in

### Outershield 1:

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Bonded Aluminum Foil-Polyester Tape-Aluminum Foil	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
PVC - Polyvinyl Chloride	0.407 in

  

<b>Print Legend:</b>	CONTROLBUS(R) BY BELDEN - 3094A RG-11 TYPE 75C QUAD SHIELD E108998 1C14 (UL) CL2R OR CMR OR C(UL) CMG
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## Electrical Characteristics

### Conductor DCR:

Nominal Conductor DCR	Nominal Outer Shield DCR
11 Ohm/1000ft	1.5 Ohm/1000ft

### Capacitance:

Nom. Capacitance Conductor to Shield
16.2 pF/ft

### Impedance:

Nominal Characteristic Impedance	Nominal Characteristic Tolerance
75 Ohm	± 3 Ohm

### High Frequency (Nominal/Typical):

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.16 db/100ft
2 MHz	0.18 db/100ft
5 MHz	0.26 db/100ft
10 MHz	0.38 db/100ft
20 MHz	0.55 db/100ft
50 MHz	0.83 db/100ft
100 MHz	1.17 db/100ft
200 MHz	1.6 db/100ft
300 MHz	1.99 db/100ft
400 MHz	2.3 db/100ft

### Delay:

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

### High Freq:

Frequency [MHz]	Max. Insertion Loss (Attenuation)	Min. SRL (Structural Return Loss)
1 MHz	0.33 db/100ft	20 dB
2 MHz	0.35 db/100ft	
5 MHz	0.44 db/100ft	
10 MHz	0.66 db/100ft	
20 MHz	0.78 db/100ft	
50 MHz	0.99 db/100ft	
100 MHz	1.32 db/100ft	
200 MHz	1.87 db/100ft	
300 MHz	2.29 db/100ft	
400 MHz	2.64 db/100ft	
1 MHz		
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

0.097  $\mu$ H/ft

### Voltage:

#### UL Voltage Rating

300 V RMS

### Use

Max Recommended Pulling Tension:

308 lbs

### Safety

CSA Flammability:

FT4

UL Flammability:

UL1666 Riser

### Temperature Range

Operating Temp Range:	-30°C To +80°C
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## Mechanical Characteristics

Min Bend Radius/Minor Axis:	4.5 in
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## Part Number

Plenum (Y/N):	No
Plenum Number:	3095A

## Standards

CA Prop 65 (CJ for Wire & Cable):	CA Prop 65 (CJ for Wire & Cable)
CEC/C(UL) Specification:	CEC/C(UL) 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)

## History

Notes:	Sweep tested 5 to 400 MHz. Tap marks every 2.6 Meters to aid users in installation.
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## Product Variants

Part Number	Color	Put-Up Type	Length
3094A F2V1000	GRAY, DEC	Reel	1000 ft
3094A F2V2000	GRAY, DEC	Reel	2000 ft
3094A F2V500	GRAY, DEC	Reel	500 ft

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