



Part Number: 3095A

ControlBus™, (1) 14 AWG Solid BCCS, FFEP/PVDF, Foil+Braid Shld, CMP

Product Description

One 14 AWG solid bare copper-covered steel conductor, foam fluorinated ethylene propylene (FFEP) insulation, Duobond® IV Quad Shield (100% coverage), fluorocopolymer (PVDF) Jacket.

Product Specifications

Technical Specifications

Suitable Applications:	Plenum 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

Total Number of Conductors:	1
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Insulation:

Material	Nominal Diameter
FFEP - Foam Fluorinated Ethylene Propylene	0.28 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	0.387 in
Print Legend:	CONTROLBUS(R) BY BELDEN - 3095A RG-11/U TYPE 150C QUAD SHIELD 1C14 E108998 (UL) CMP OR C(UL) CMP

Electrical Characteristics

Conductor DCR:

Nominal Conductor DCR	Nominal Outer Shield DCR
11 Ohm/1000ft	3.9 Ohm/1000ft

Capacitance:

Nom. Capacitance Conductor to Shield	
16.5 pF/ft	
Other Electrical Characteristic 1:	Tilt 5 to 10 MHz: .42 dB/100 M
Other Electrical Characteristic 2:	Tilt 10 to 20 MHz: .58 dB/100 M

Impedance:

Nominal Characteristic Impedance	Nominal Characteristic Tolerance
75 Ohm	± 3 Ohm

High Frequency (Nominal/Typical):

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.17 db/100ft
2 MHz	0.22 db/100ft
5 MHz	0.28 db/100ft
10 MHz	0.4 db/100ft
20 MHz	0.6 db/100ft
50 MHz	1.2 db/100ft
100 MHz	1.7 db/100ft
200 MHz	2.5 db/100ft
300 MHz	3.04 db/100ft
400 MHz	3.5 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	-0.6
1	-0.46
1.5	0
2	0.17
2.5	0.3

High Freq:

Frequency [MHz]	Min. SRL (Structural Return Loss)
1 MHz	20 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
0.097 μ H/ft

Voltage:

UL Voltage Rating
300 V RMS

Use

Suitability - Burial:	Yes
Suitability - Outdoor:	Yes
Max Recommended Pulling Tension:	309 lbs

Safety

CSA Flammability:	FT6
UL Flammability:	NFPA 262

Temperature Range

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

Mechanical Characteristics

Min Bend Radius/Minor Axis:	4 in
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Part Number

Plenum (Y/N):	Yes
Non-Plenum Number:	3094A

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
3095A F2V1000	GRAY, DEC	Reel	1000 ft

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