



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

Suitable Applications:	RG-11/U Type
-------------------------------	--------------

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
------------------------------------	---

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
Print Legend:	CONTROLBUS(R) BY BELDEN - 3094A RG-11 TYPE 75C QUAD SHIELD E108998 1C14 (UL) CL2R OR CMR OR C(UL) CMG

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 μ 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
-----------------------	----------------

Mechanical Characteristics

Min Bend Radius/Minor Axis:	4.5 in
-----------------------------	--------

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.
--------	---

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

© 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.