



REPRESENTATIVE IMAGE

Product: [3094A](#)

ControlBus™, Coax RG-11, #14 Sol BCCS, FPE Ins, QUAD AL Shld, PVC Jkt, CMR

[Request Sample](#)

Product Description

Coax RG-11 14AWG (Solid) Bare Copper Covered Steel, Foam PE Insulation, Overall Duobond® II+ Aluminum Braid(60%)+Duofoil®+Aluminum Braid(40%) Shield, PVC Outer Jacket, CMR

Technical Specifications

Product Overview

Suitable Applications:	harsh environment, factory automation, ControlNet™, Modbus II, Industrial Coax, Belden ControlNet cables provide maximum signal integrity and run length exceeding the high-speed, time-critical requirements necessary for ControlNet factory floor applications
------------------------	---

Construction Details

RG Type:	11
----------	----

Conductor

AWG	Stranding	Nom. Diameter	Material
14	Solid	0.064 in	BCCS - Bare Copper Covered Steel

Insulation

Material	Nom. Diameter
PE - Polyethylene (Foam)	0.280 in

Outer Shield Material

Layer	Outer Shield Type	Material	Material Trade Name	Coverage
1	Tape	Tri-Laminate (Alum+Poly+Alum)	Duobond® II	100%
2	Braid	Aluminum		60%
3	Tape	Tri-Laminate (Alum+Poly+Alum)	Duofoil®	60%
4	Braid	Aluminum		40%

Outer Jacket Material

Material	Nom. Diameter
PVC - Polyvinyl Chloride	0.407 in

Electrical Characteristics

Return Loss (RL)

Frequency [MHz]	Min. Structural Return Loss [dB]
5 - 400 MHz	20 dB

Attenuation

Frequency	Nom. Attenuation [dB/100ft]
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	1.60 dB/100ft
300 MHz	1.99 dB/100ft
400 MHz	2.30 dB/100ft

Electricals

Nom. Conductor DCR	Nom. Outer Shield DCR	Nom. Capacitance Cond-to-Shield	Nom. Impedance
11.5 Ohm/1000ft	1.8 Ohm/1000ft	16.3 pF/ft	75 Ohm

Voltage

UL Voltage Rating
300 V (CMR, CMG)

Mechanical Characteristics

Temperature

UL Rating	Operating
75°C	-30°C to 75°C

Bend Radius

Installation Min.
4 in

Bulk Cable Weight:	60 lbs/1000ft
Max. Pull Tension:	234 lbs

Standards and Compliance

Environmental Suitability:	Indoor - Plenum, Indoor, Outdoor, Sunlight Resistance
Sustainability:	CA Prop 65
Flammability / Fire Resistance:	UL 1666 Riser
NEC / UL Compliance:	CMR, CL2R
CEC / C(UL) Compliance:	CMG
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU, EU Directive 2011/65/EU (ROHS II), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Plenum Number:	3095A

Product Notes

Notes:	Tap marks every 2.6 meters to aid users in installation.
--------	--

History

Update and Revision:	Revision Number: 0.378 Revision Date: 08-25-2020
----------------------	--

© 2020 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 here in 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 "ASIS" 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 all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information 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. The 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.