



Product: [3094A](#)

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

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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
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Construction Details

RG Type:	11
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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

Outer Shield Material

Layer	Outer Shield Type	Material	Material Trade Name	Coverage
1	Tape	Tri-Laminate (Alum+Poly+Alum)	Duobond® II	100.0%
2	Braid	Aluminum		60%
3	Tape	Tri-Laminate (Alum+Poly+Alum)	Duofoil®	100%
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]	Max. Attenuation [dB/100ft]
1 MHz	0.16 dB/100ft	0.33 dB/100ft
2 MHz	0.18 dB/100ft	0.35 dB/100ft
5 MHz	0.26 dB/100ft	0.44 dB/100ft
10 MHz	0.38 dB/100ft	0.66 dB/100ft
20 MHz	0.55 dB/100ft	0.78 dB/100ft
50 MHz	0.83 dB/100ft	0.99 dB/100ft
100 MHz	1.17 dB/100ft	1.32 dB/100ft

200 MHz	1.60 dB/100ft	1.87 dB/100ft
300 MHz	1.99 dB/100ft	2.29 dB/100ft
400 MHz	2.30 dB/100ft	2.64 dB/100ft

Electricals

Nom. Conductor DCR	Nom. Outer Shield DCR	Nom. Capacitance Cond-to-Shield	Nom. Impedance	Nom. Velocity
11.5 Ohm/1000ft	1.8 Ohm/1000ft	16.3 pF/ft	75 Ohm	83%

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 1685 FT4 Loading, Limited Smoke
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.
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History

Update and Revision:	Revision Number: 0.363 Revision Date: 07-31-2020
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