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

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

Insulation

Material	Nom. Insulation Diameter	Color Code	Notes
PE - Polyethylene (Foam)	0.280 in (7.11 mm)	White	Gas Injected

Outer Shield

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®	100%
4	Braid	Aluminum		40%

Outer Jacket

Material	Nom. Diameter
PVC - Polyvinyl Chloride	0.407 in (10.3 mm)

Overall Cable Diameter (Nominal):	0.407 in (10.3 mm)

Electrical Characteristics

Return Loss (RL)

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

Attenuation

Frequency	Nom. Attenuation
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. Characteristic Impedance	Nom. Velocity of Prop.
11.5 Ohm/1000ft	1.8 Ohm/1000ft (5.9 Ohm/km)	16.3 pF/ft (53.5 pF/m)	75 Ohm	83%

Voltage

UL Voltage Rating
300 V (CMR, CMG)

Mechanical Characteristics

Temperature

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

Bend Radius

Installation Min.
4 in (100 mm)

Max. Pull Tension:	234 lbs (106 kg)
Bulk Cable Weight:	60 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor - Plenum, Indoor, Outdoor, Sunlight Resistance, Aerial - When supported by messenger wire
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	UL 1666 Riser
CPR Compliance:	CPR Euroclass: Eca
NEC / UL Compliance:	CMR, CL2R
CEC / C(UL) Compliance:	CMG
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), REACH, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
UK Regulation Compliance:	UKCA Mark
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: 0.511 Revision Date: 05-03-2023

Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC
3094A F2V500	Gray, DEC	Reel	500 ft	612825141525
3094A F2V1000	Gray, DEC	Reel	1,000 ft	612825141501
3094A F2V2000	Gray, DEC	Reel	2,000 ft	612825141518

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