



REPRESENTATIVE IMAGE

Product: [3092A](#)

ControlBus™, Coax RG-6, #18 Sol BCCS, FPE Ins, QUAD AL Shld, PVC Jkt, CMR

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Product Description

Coax RG-6 18 AWG (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:	6
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Conductor

AWG	Stranding	Nom. Diameter	Material
18	Solid	0.040 in	BCCS - Bare Copper Covered Steel

Insulation

Material	Nom. Diameter
PE - Polyethylene (Foam)	0.180 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	0.298 in

Electrical Characteristics

Return Loss (RL)

Frequency [MHz]	Min. Structural Return Loss [dB]
5 - 50 MHz	23 dB

Attenuation

Frequency	Nom. Attenuation [dB/100ft]
1 MHz	0.35 dB/100ft
2 MHz	0.38 dB/100ft
5 MHz	0.45 dB/100ft
10 MHz	0.59 dB/100ft
20 MHz	0.86 dB/100ft
50 MHz	1.37 dB/100ft
100 MHz	1.97 dB/100ft

200 MHz	2.82 dB/100ft
300 MHz	3.48 dB/100ft
400 MHz	4.04 dB/100ft

Electricals

Nom. Conductor DCR	Nom. Outer Shield DCR	Nom. Capacitance Cond-to-Shield	Nom. Impedance
28 Ohm/1000ft	2.6 Ohm/1000ft	16.2 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.
3 in

Bulk Cable Weight:	35 lbs/1000ft
Max. Pull Tension:	118 lbs

Standards and Compliance

Environmental Suitability:	Indoor/Outdoor, Indoor, Outdoor, Sunlight Resistance
Sustainability:	CA Prop 65
Flammability / Fire Resistance:	UL 1666 Vertical Shaft
NEC / UL Compliance:	CMR, CL2R, CMG
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:	3093A

History

Update and Revision:	Revision Number: 0.338 Revision Date: 08-25-2020
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