



**Product:** [3092A](#)

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

[Request Sample](#)

**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**

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

**Insulation**

Material	Nom. Insulation Diameter
PE - Polyethylene (Foam)	0.180 in (4.57 mm)

**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	0.298 in (7.57 mm)

Overall Cable Diameter (Nominal):	0.298 in (7.57 mm)
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**Electrical Characteristics**

**Return Loss (RL)**

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

**Attenuation**

Frequency	Nom. Attenuation
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. Characteristic Impedance	Nom. Velocity of Prop.
28 Ohm/1000ft (92 Ohm/km)	2.6 Ohm/1000ft (8.5 Ohm/km)	16.2 pF/ft (53.1 pF/m)	75 Ohm	83%

#### Voltage

<b>UL Voltage Rating</b>
300 V (CMR, CMG)

## Mechanical Characteristics

#### Temperature

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

#### Bend Radius

<b>Installation Min.</b>
3 in

Max. Pull Tension:	118 lbs (53.5 kg)
Bulk Cable Weight:	35 lbs/1000ft

## Standards and Compliance

Environmental Suitability:	Indoor/Outdoor, Indoor, Outdoor, Sunlight Resistance
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	UL1666 Vertical Shaft
NEC / UL Compliance:	CMR, CL2R, CMG
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)
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Plenum Number:	3093A

## History

Update and Revision:	Revision Number: 0.385 Revision Date: 12-15-2021
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#### Variants

Item #	Color	Putup Type	Length	UPC
3092A 010500	Black	Reel	500 ft	612825141372
3092A 0101000	Black	Reel	1,000 ft	612825141334
3092A 0102000	Black	Reel	2,000 ft	612825141358
3092A 0105000	Black	Reel	5,000 ft	612825141389
3092A 01010000	Black	Reel	10,000 ft	612825141341
3092A X7E500	Blue X7E	Reel	500 ft	612825141303
3092A X7E1000	Blue X7E	Reel	1,000 ft	612825141280
3092A X7E5000	Blue X7E	Reel	5,000 ft	612825141310

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