



**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

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

#### Insulation

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

#### 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)

#### 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	2.6 Ohm/1000ft (8.5 Ohm/km)	16.2 pF/ft (53.1 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.
3 in (76 mm)

Max. Pull Tension:	162 lbs (73.5 kg)
Bulk Cable Weight:	33 lbs/1000ft

## Standards and Compliance

Environmental Suitability:	Indoor/Outdoor, Indoor, Outdoor, Sunlight Resistance, Aerial - When supported by messenger wire
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	UL1666 Vertical Shaft
CPR Compliance:	CPR Euroclass: Eca
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)
UK Regulation Compliance:	UKCA Mark
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Plenum Number:	3093A

## History

Update and Revision:	Revision Number: 0.550 Revision Date: 04-28-2023
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## Part Numbers

#### 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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