



**Product:** [123092A](#)

ControlBus™, Coax RG6, #18 Sol BCCS, PO Ins, QUAD AL Shld, PVC Jkt, AIA Armor, PVC Jkt, CM

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**Product Description**

ControlBus™, Coax RG6 18AWG (Solid) Bare Copper Covered Steel, PO Insulation, Overall Duofoil®+ Aluminum Braid(60%)+Overall Duofoil®+Aluminum Braid(40%) Shield, PVC Inner Jacket, Aluminum Interlock Armor, PVC Outer Jacket, CM

**Technical Specifications**

**Product Overview**

Suitable Applications:	exposure to rodent, crush, or cut through force, 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/U Type
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**Conductor**

AWG	Stranding	Nom. Diameter	Material
18	Solid	0.0403 in	BCCS - Bare Copper Covered Steel

**Insulation**

Material	Nom. Diameter
PE - Polyethylene (Foam)	0.178 in

**Inner Jacket Material**

Material	Nom. Diameter
PVC - Polyvinyl Chloride	0.298 in

**Outer Shield Material**

Layer	Outer Shield Type	Material	Material Trade Name	Coverage
1	Tape	Tri-Laminate (Alum+Poly+Alum)	Duofoil®	100%
2	Braid	Aluminum		60%
3	Tape	Tri-Laminate (Alum+Poly+Alum)	Duofoil®	100%
4	Braid	Aluminum		40%

**Armor**

Armor Type & Material
AIA - Aluminum Interlock Armor

**Outer Jacket Material**

Material	Nom. Diameter
PVC - Polyvinyl Chloride	0.591 in

**Electrical Characteristics**

**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	Nom. Velocity
28 Ohm/1000ft	3.6 Ohm/1000ft	16.2 pF/ft	75 Ohm	82%

#### Voltage

UL Voltage Rating
300 V RMS

Electrical Characteristics Notes:	SRL Minimum 23dB (5MHz - 50MHz)
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### Mechanical Characteristics

#### Temperature

UL Rating	Operating
75°C	-40°C To +75°C

#### Bend Radius

Stationary Min.	Installation Min.
7.1 in	2.5 in

Bulk Cable Weight:	142 lbs/1000ft
Max. Pull Tension:	200 lbs

### Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance
Flammability / Fire Resistance:	UL1685 UL Loading, FT4, 1202
NEC / UL Compliance:	Article 800, CL2, CM
CEC / C(UL) Compliance:	CMG, HL
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)

### Product Notes

Notes:	ControlNet is a ControlNet International trademark.
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### History

Update and Revision:	Revision Number: 0.237 Revision Date: 09-30-2020
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