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### Product: <u>3092A</u> ☑

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

😭 Request Sample

#### **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 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

#### **Physical Characteristics (Overall)**

Condu	ctor			
AWG	Stranding	Material	Nominal Diameter	No. of Coax
18	Solid	BCCS - Bare Copper Covered Steel	0.04 in	1
Condu	ctor Count:	1		

#### Insulation

	Material	Nominal Diameter
	PE - Polyethylene (Foam)	0.18 in
Ī	Insulation, Table Note:	Gas Injected

#### **Outer Shield Material**

Туре	Layer	Material	Material Trade Name	Coverage [%]
Таре	1	Alum / Poly / Alum	Bonded Duofoil®	100 %
Braid	2	Aluminum		60 %
Таре	3	Alum / Poly / Alum	Duofoil®	100 %
Braid	4	Aluminum		40 %

#### Outer Jacket Material

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.298 in

#### **Electrical Characteristics**

#### Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR	Outer Conductor DCR
28 Ohm/1000ft	3.6 Ohm/1000ft	3.6 Ohm/1000ft

#### Capacitance

Nom. Capacitance Conductor to Shield 16.2 pF/ft

#### Inductance

Nominal Inductance 0.097 µH/ft

#### Impedance

Nominal Characteristic Impedance

75 Ohm

#### Return Loss (RL)

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

#### High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
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 MHz	1.97 dB/100ft
200 Mhz MHz	2.82 dB/100ft
300 MHz MHz	3.48 dB/100ft
400 Mhz MHz	4.04 dB/100ft

#### Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.22 ns/ft	83.0 %

#### High Freq

Min. SRL (Structural Return Loss)
23 dB

#### Voltage

UL Voltage Rating 300 V RMS

# Temperature Range UL Temp Rating: 75°C Operating Temp Range: -30°C To +75°C

#### **Mechanical Characteristics**

Bulk Cable Weight:	34 lbs/1000ft
Max Recommended Pulling Tension:	117 lbs
Min Bend Radius/Minor Axis:	3 in

#### **Standards**

NEC/(UL) Specification:	CMR, CL2R, CMG
CEC/C(UL) Specification:	CMG
CPR Euroclass:	Eca

#### Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/96/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2004-01-01
MII Order #39 (China RoHS):	Yes

#### Suitability

Suitability - Aerial:	Yes - When supported by messenger wire
Suitability - Burial:	No
Suitability - Hazardous Locations:	No
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Suitability - Sunlight Resistance:	Yes

#### Flammability, LS0H, Toxicity Testing

UL Flammability:	UL 1666 Vertical Shaft
ISO/IEC Flammability:	IEC 60332-1-2
UL voltage rating:	300 V RMS

#### **Plenum/Non-Plenum**

Plenum (Y/N):	No
Plenum Number:	3093A

#### **Part Number**

#### 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	
Footnote:		C - CRA	C - CRATE REEL PUT-UP.		

#### Footnote:

#### **History**

Update and Revision: Revision Number: 0.314 Revision Date: 04-28-2020

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