



Product: [3092T](#)

ControlBus™, Coax RG6, #18 Sol BCCS, PO Ins, QUAD AL Shld, LSZH Jkt, CMG

[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, LSZH Outer Jacket, CMG

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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Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Coax
18	Solid	BCCS - Bare Copper Covered Steel	0.040 in	1

Conductor Count: 1

Insulation

Material	Nominal Diameter
PE - Polyethylene (Foam)	0.180 in

Outer Shield

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Tri-Laminate (Alum+Poly+Alum)	Duobond® II	100%
Braid	2	Aluminum		60%
Tape	3	Tri-Laminate (Alum+Poly+Alum)	Duofoil®	100%
Braid	4	Aluminum		60%

Outer Jacket

Material	Nominal Diameter
PE - Polyethylene	0.3 in

Table Notes: Flame Retardant

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Outer Conductor DCR
28 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 | 1.97 dB/100ft

200 MHz | 2.82 dB/100ft

300 MHz | 3.48 dB/100ft

400 MHz | 4.04 dB/100ft

Delay

Nominal Delay | Nominal Velocity of Propagation (VP) [%]

1.25 ns/ft | 83%

Voltage

UL Voltage Rating

300 V RMS

Temperature Range

UL Temp Rating: 75°C

Operating Temperature Range: -20°C To +75°C

Mechanical Characteristics

Bulk Cable Weight: 35 lbs/1000ft

Max. Pull Tension: 162 lbs

Min. Bend Radius/Minor Axis: 3.0 in

Standards

NEC/(UL) Compliance: CL2, CMG

CEC/C(UL) Compliance: CMG

RG Type: 6

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV): Yes

EU Directive 2003/11/EC (BFR): Yes

EU Directive 2011/65/EU (RoHS 2): Yes

EU Directive 2012/19/EU (WEEE): Yes

EU Directive 2015/863/EU (RoHS 2 amendment): Yes

EU Directive Compliance: EU Directive 2003/11/EC (BFR)

EU CE Mark: Yes

Flammability, LS0H, Toxicity Testing

IEC Flammability: IEC 60332-3-22

IEEE Flammability: 1202

UL voltage rating: 300 V RMS

Related Part Numbers

Variants

Item #	Color	UPC
3092T 0105000	Black	612825141433

History

Update and Revision:	Revision Number: 0.330 Revision Date: 04-29-2024
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