



**Product:** <u>3092T</u> ☑

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

Request Sample
 Requ

## **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:
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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
Condu	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

#### **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

## 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: 0.329 Revision Date: 05-05-2023

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