



Product: [3092F](#)

ControlBus™, Coax RG6, #20 Str BC, PO Ins, QUAD AL Shld, PVC Jkt, High Flex

[Request Sample](#)

Product Description

ControlBus™, Coax RG6 20AWG (105x40) Bare Copper, PO Insulation, Overall Duofoil®+ Aluminum Braid(60%)+Overall Duofoil®+Aluminum Braid(40%) Shield, PVC Outer Jacket, High Flex

Technical Specifications

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Coax
20	105x40	BC - Bare Copper	0.04 in	1

Conductor Count: 1

Insulation

Material	Nominal Diameter
FPE - Foamed Polyethylene	0.183 in

Outer Shield Material

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Aluminum/Polyester/Aluminum	Bonded Duofoil®	100 %
Braid	2	AL - Aluminum		60 %
Tape	3	Aluminum/Polyester/Aluminum	Duofoil®	100 %
Braid	4	AL - Aluminum		40 %

Outer Jacket Material

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.303 in

Electrical Characteristics

Conductor DCR

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

Capacitance

Nom. Capacitance Conductor to Shield
17 pF/ft

Inductance

Nominal Inductance
0.108 µH/ft

Impedance

Nominal Characteristic Impedance
100 Ohm

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
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1 MHz	0.36 dB/100ft
2 MHz	0.47 dB/100ft
5 MHz	0.8 dB/100ft
10 MHz	1.2 dB/100ft
20 MHz	2 dB/100ft
50 MHz	3.2 dB/100ft
100 MHz	4.6 dB/100ft
200 MHz	6.5 dB/100ft
300 MHz	8 dB/100ft
400 MHz	9.3 dB/100ft

Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.29 ns/ft	79 %

High Freq

Frequency [MHz]	Min. SRL (Structural Return Loss)
1 MHz	23 dB
2 MHz	
5 MHz	
10 MHz	
20 MHz	
50 MHz	
100 MHz	
200 MHz	
300 MHz	
400 MHz	

Screening

Frequency [MHz]	Shield Effectiveness	Shield Effectiveness Description
30 MHz	92 dB	Unflexed
30 MHz	60 dB	After 1.5 million flexes

Electrical Characteristics Notes: IEEE 802.4 MAP/IEEE 802.7 Mini-Map

Temperature Range

UL Temp Rating:	75°C
Operating Temp Range:	-40°C To +75°C

Mechanical Characteristics

Bulk Cable Weight:	40 lbs/1000ft
Max Recommended Pulling Tension:	35 lbs
Min Bend Radius During Operation:	6.0 in
Min Bend Radius/Minor Axis:	3 in
Min Flexing Radius:	6 in

Standards

NEC Articles:	800
NEC/(UL) Specification:	CL2R, CMR
CEC/C(UL) Specification:	CMG
RG Type:	6/U Type

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	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

Flammability, LSOH, Toxicity Testing

UL Flammability:	UL1666 Riser
CSA Flammability:	FT4
UL voltage rating:	300 V RMS

Part Number

Variants

Item #	Color	UPC	Length	Footnote
3092F 0101000	Black	612825141396	1,000 ft	
3092F 0105000	Black	612825141402	5,000 ft	C

Footnote:	C - CRATE REEL PUT-UP.
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Product Notes

Notes:	CPE Jacket optional. Flex Life: 1.5 Million cycles @ 6.0" minimum bend radius. For Rockwell authorized Flexible ControlNet order YR28890 (Tinned Copper Braid Version).
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History

Update and Revision:	Revision Number: 0.311 Revision Date: 12-19-2019
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