



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
-----------------	---------------------

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
CA Prop 65 (CJ for Wire & Cable):	Yes

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.
-----------	------------------------

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).
--------	---

History

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

© 2020 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.