



Product: [3092F](#)

ControlBus™, Coax RG-6, #20 Str BC, FPE Ins, QUAD AL Shld, PVC Jkt, High Flex, CMR

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Product Description

Coax RG-6 20 AWG (105x40) Bare Copper, Foam PE Insulation, Overall Duobond® II+Aluminum Braid(60%)+Duofoil®+Aluminum Braid(40%) Shield, PVC Outer Jacket, High Flex, 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
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Construction Details

RG Type:	6
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Conductor

AWG	Stranding	Nom. Diameter	Material
20	105x40	0.040 in	BC - Bare Copper

Insulation

Material	Nom. Diameter
PE - Polyethylene (Foam)	0.183 in

Outer Shield Material

Layer	Outer Shield Type	Material	Material Trade Name	Coverage
1	Tape	Tri-Laminate (Alum+Poly+Alum)	Duobond® II	100%
2	Braid	Aluminum		60%
3	Tape	Tri-Laminate (Alum+Poly+Alum)	Duofoil®	100%
4	Braid	Aluminum		40%

Outer Jacket Material

Material	Nom. Diameter
PVC - Polyvinyl Chloride	0.303 in

Electrical Characteristics

Return Loss (RL)

Frequency [MHz]	Min. Structural Return Loss [dB]
5 - 400 MHz	23 dB

Attenuation

Frequency	Nom. Attenuation [dB/100ft]
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	2.0 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

Electricals

Nom. Conductor DCR	Nom. Outer Shield DCR	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity
10.5 Ohm/1000ft	2.6 Ohm/1000ft	16.3 pF/ft	75 Ohm	82%

Voltage

UL Voltage Rating

300 V (CMR, CMG)

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

Mechanical Characteristics

Temperature

UL Rating	Operating
75°C	-40°C to +75°C

Bend Radius

Installation Min.

3 in

Bulk Cable Weight: 29 lbs/1000ft

Max. Pull Tension: 371 lbs

Standards and Compliance

Environmental Suitability:	Indoor - Riser, Indoor
Sustainability:	CA Prop 65
Flammability / Fire Resistance:	UL 1666 Riser, FT4
NEC / UL Compliance:	CMR, CL2R
CEC / C(UL) Compliance:	CMG
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), REACH, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)

Product Notes

Notes: 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: 0.384 Revision Date: 05-26-2021

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