

勝特力電材超市-龍山店 886-3-5773766 勝特力電材超市-光復店 886-3-5729570 胜特力电子(上海) 86-21-34970699 胜特力电子(深圳) 86-755-83298787 http://www.100y.com.tw



**Product:** <u>3092F</u> ☑

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

# Request Sample

# **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

#### **Construction Details**

RG Type: 6

#### Conductor

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

## Insulation

Material	Nom. Insulation Diameter
PE - Polyethylene (Foam)	0.183 in (4.65 mm)

## Outer Shield

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

# Outer Jacket

Material	Nom. Diameter
PVC - Polyvinyl Chloride	0.303 in (7.70 mm)
Overall Cable Diameter (Nominal):	0.303 in (7.70 m

# **Electrical Characteristics**

# Return Loss (RL)

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

## Attenuation

Frequency	Nom. Attenuation
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 of Prop.
10.5 Ohm/1000ft (34.4 Ohm/km)	2.6 Ohm/1000ft (8.5 Ohm/km)	16.3 pF/ft (53.5 pF/m)	75 Ohm	82%

## Voltage

UL Voltage Rating 300 V (CMR, CMG)

Electrical Characteristics IEE

IEEE 802.4 MAP/IEEE 802.7 Mini-Map

#### **Mechanical Characteristics**

#### Temperature

<b>UL Temperature</b>	Operating	
75°C	-40°C to +75°C	

#### **Bend Radius**

Installation Min.
3 in

Max. Pull Tension: 371 lbs (168 kg)
Bulk Cable Weight: 29 lbs/1000ft

# **Standards and Compliance**

Environmental Suitability:	Indoor - Riser, Indoor
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	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: 0.394 Revision Date: 04-08-2022

## Variants

Item #	Color	Putup Type	Length	UPC
3092F 0101000	Black	Reel	1,000 ft	612825141396
3092F 0105000	Black	Reel	5,000 ft	612825141402

## © 2022 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.