



**Part Number: 8212**

Analog Video, RG59, #20 Solid BCCS, 95% BC Braid, PE Jacket

## Product Description

20 AWG solid .032" bare copper-covered steel conductor, foam polyethylene insulation, bare copper braid shield (95% coverage), polyethylene jacket.

## Technical Specifications

### Product Overview

Environmental Space:	Outdoor
----------------------	---------

### Physical Characteristics (Overall)

#### Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Coax
20	Solid	BCCS - Bare Copper Covered Steel	0.032 in	1

Conductor Count:	1
Conductor Size:	20 AWG

#### Insulation

Material	Nominal Diameter
FPE - Foamed Polyethylene	0.143 in

#### Outer Shield Material

Type	Material	Coverage [%]
Braid	BC - Bare Copper	95 %

#### Outer Jacket Material

Material	Nominal Diameter
PE - Polyethylene	0.242 in

### Electrical Characteristics

#### Conductor DCR

Nominal Conductor DCR	Nominal Conductor DCR Conductor Resistance	Nominal Outer Shield DCR	Outer Conductor DCR
44.5 Ohm/1000ft	44.5 Ohm/1000ft	2.6 Ohm/1000ft	2.6 Ohm/1000ft

#### Capacitance

Nom. Capacitance Conductor to Shield
17.3 pF/ft

Shielding:	Braid(s)
------------	----------

#### Inductance

Nominal Inductance
0.097 $\mu$ H/ft

#### Impedance

Nominal Characteristic Impedance
75 Ohm

#### Return Loss (RL)

Frequency [MHz]	Minimum Return (RL)
-----------------	---------------------

5-450 MHz	23 dB
-----------	-------

#### High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.6 dB/100ft
10 MHz	1 dB/100ft
50 MHz	2.1 dB/100ft
100 MHz	3 dB/100ft
200 MHz	4.5 dB/100ft
400 MHz	6.6 dB/100ft
700 MHz	8.9 dB/100ft
900 MHz	10.1 dB/100ft
1000 MHz	10.9 dB/100ft

#### Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.3 ns/ft	78 %

#### High Freq

Frequency [MHz]	Max. Insertion Loss (Attenuation)
400 MHz	6.9 dB/100ft
10 MHz	
50 MHz	
100 MHz	
200 MHz	
400 MHz	
700 MHz	
900 MHz	
1000 MHz	

#### Voltage

Non-UL Voltage Rating
300 V RMS

#### Temperature Range

Non-UL Temp Rating:	80°C
Operating Temp Range:	-55°C To +80°C

#### Mechanical Characteristics

Bulk Cable Weight:	30 lbs/1000ft
Max Recommended Pulling Tension:	107 lbs
Min Bend Radius/Minor Axis:	2.5 in

#### Standards

CPR Euroclass:	Fca
RG Type:	59/U Type
Series Type:	Series 59
RG / Series Type:	Series 59

#### 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 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:	No
EU RoHS Compliance Date (yyyy-mm-dd):	2004-01-01
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

## Suitability

Suitability - Aerial:	Yes - When supported by messenger wire
Suitability - Burial:	Yes
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes

## Plenum/Non-Plenum

Plenum (Y/N):	No
---------------	----

## Part Number

### Variants

Item #	Color	Footnote
8212 0101000	Black	C
8212 010500	Black	C
8212 010U1000	Black	
8212 010U500	Black	

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

© 2018 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.