

**Product:** [9231](#) 

Precision Video Coax, RG59, #20 Solid BC, Double 98% TC/BC Braid



## Product Description

20 AWG solid .031" bare copper conductor, polyethylene insulation, tinned copper braid shields (95% coverage), PVC jacket.

## Technical Specifications

### Physical Characteristics (Overall)

#### Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Coax
20	Solid	BC - Bare Copper	0.031 in	1

Conductor Count:

#### Insulation

Material	Nominal Diameter
PE - Polyethylene	0.198 in

#### Outer Shield Material

Type	Layer	Material	Coverage [%]
Braid	1	Tinned Copper (TC)	95%
Braid	2	Tinned Copper (TC)	95%

#### Outer Jacket Material

Material	Nominal Diameter
PVC - Polyvinyl Chloride (Non-Contaminating)	0.305 in

### Electrical Characteristics

#### Conductor DCR

Nominal Conductor DCR	Nominal Conductor DCR Conductor Resistance	Nominal Outer Shield DCR	Outer Conductor DCR
9.9 Ohm/1000ft	9.9 Ohm/1000ft	1.1 Ohm/1000ft	1.1 Ohm/1000ft

#### Capacitance

Nom. Capacitance Conductor to Shield
21 pF/ft

#### Inductance

Nominal Inductance
0.118 µH/ft

#### Impedance

Nominal Characteristic Impedance
75 Ohm

#### Return Loss (RL)

Frequency [MHz]	Minimum Return (RL)
5-216 MHz	27 dB

217-850 MHz	23 dB
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#### High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.3 dB/100ft
3.6 MHz	0.5 dB/100ft
10 MHz	0.8 dB/100ft
71.5 MHz	2 dB/100ft
135 MHz	3.5 dB/100ft
270 MHz	4.3 dB/100ft
360 MHz	5 dB/100ft
540 MHz	6.2 dB/100ft
720 MHz	7.2 dB/100ft
750 MHz	7.4 dB/100ft
1000 MHz	9.1 dB/100ft

#### Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.54 ns/ft	66%

#### Voltage

Non-UL Voltage Rating	UL Voltage Rating
1700 V RMS	300 V RMS

#### Temperature Range

UL Temp Rating:	60°C
Operating Temp Range:	-40°C To +60°C

#### Mechanical Characteristics

Bulk Cable Weight:	71 lbs/1000ft
Max. Pull Tension:	168 lbs
Min Bend Radius (Continuous Flexing):	6 in
Min Bend Radius/Minor Axis:	3 in

#### Standards

NEC/(UL) Compliance:	CMH
CEC/C(UL) Compliance:	CMH
RG Type:	59/U Type
Series Type:	59

#### Applicable Environmental and Other Programs

Environmental Space:	Indoor/Outdoor
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:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2005-10-01
MII Order #39 (China RoHS):	Yes

#### Suitability

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

#### Flammability, LSOH, Toxicity Testing

UL Flammability:	UL1685 UL Loading, VW-1
UL voltage rating:	300 V RMS

## Plenum/Non-Plenum

Plenum (Y/N):	No
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## Part Number

### Variants

Item #	Color	Putup Type	Length	UPC
9231 008500	Gray	Reel	500 ft	612825356059
9231 0081000	Gray	Reel	1,000 ft	612825356066

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

Update and Revision:	Revision Number: 0.259 Revision Date: 06-24-2020
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