



**Product:** [8221](#) 

Analog Video, RG59, #22 Solid BCCS, 85% BC Braid, PVC Jacket

### Product Description

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

### Technical Specifications

#### Physical Characteristics (Overall)

##### Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Coax
22	Solid	BCCS - Bare Copper Covered Steel	0.025 in	1

Conductor Count: 1

##### Insulation

Material	Nominal Diameter
PE - Polyethylene (Foam)	0.146 in

##### Outer Shield

Type	Material	Coverage [%]
Braid	Bare Copper (BC)	95%

##### Outer Jacket

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.242 in

#### Electrical Characteristics

##### Conductor DCR

Nominal Conductor DCR	Nominal Conductor DCR Conductor Resistance	Nominal Outer Shield DCR	Outer Conductor DCR
50 Ohm/1000ft	50 Ohm/1000ft	2.6 Ohm/1000ft	2.6 Ohm/1000ft

##### Capacitance

Nom. Capacitance Conductor to Shield
16.3 pF/ft

##### Inductance

Nominal Inductance
0.104 µH/ft

##### Impedance

Nominal Characteristic Impedance
80 Ohm

##### High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.44 dB/100ft
10 MHz	0.9 dB/100ft

50 MHz	2 dB/100ft
100 MHz	2.9 dB/100ft
200 MHz	4.1 dB/100ft
400 MHz	5.9 dB/100ft
700 MHz	7.8 dB/100ft
900 MHz	8.8 dB/100ft
1000 MHz	9.9 dB/100ft

#### Delay

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

#### High Frequency

Frequency [MHz]
1 MHz
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:	75°C
Operating Temp Range:	-40°C To +75°C

#### Mechanical Characteristics

Bulk Cable Weight:	34 lbs/1000ft
Max. Pull Tension:	88 lbs
Min. Bend Radius/Minor Axis:	2.5 in

#### Standards

CPR Euroclass:	Eca
RG Type:	59
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 2):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU (RoHS 2 amendment):	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	No
MII Order #39 (China RoHS):	Yes

#### Suitability

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

#### Flammability, LS0H, Toxicity Testing

IEC Flammability:	IEC 60332-1-2
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## Plenum/Non-Plenum

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

### Variants

Item #	Color	Put-Up Type	Length	UPC
8221 010500	Black	Reel	500 ft	612825355526
8221 010U500	Black	UnReel	500 ft	612825377009
8221 0101000	Black	Reel	1,000 ft	612825355502
8221 010U1000	Black	UnReel	1,000 ft	612825355519

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

Update and Revision:	Revision Number: 0.306 Revision Date: 12-15-2021
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