



Product: [9209](#)

Precision Video Coax, Miniature, #23 Solid BC, Foil + 95% TC Braid



### Product Description

23 AWG solid .022" bare copper conductor, polyethylene insulation, Duofoil® + tinned copper braid shield (95% coverage), polyethylene jacket.

### Technical Specifications

#### Physical Characteristics (Overall)

##### Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Coax
23	Solid	BC - Bare Copper	0.022 in	1

Conductor Count: 1

##### Insulation

Material	Nominal Diameter
PE - Polyethylene	0.146 in

##### Outer Shield

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Tri-Laminate (Alum+Poly+Alum)	Duofoil®	100%
Braid	2	Tinned Copper (TC)		95%

##### Outer Jacket

Material	Nominal Diameter
PE - Polyethylene	0.22 in

#### Electrical Characteristics

##### Conductor DCR

Nominal Conductor DCR	Nominal Conductor DCR Conductor Resistance	Nominal Outer Shield DCR	Outer Conductor DCR
20.4 Ohm/1000ft	20.4 Ohm/1000ft	4.5 Ohm/1000ft	4.5 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	0.4 dB/100ft
3.58 MHz	0.5 dB/100ft
5 MHz	0.84 dB/100ft
7 MHz	0.98 dB/100ft
10 MHz	1.17 dB/100ft
67.5 MHz	2.85 dB/100ft
71.5 MHz	2.9 dB/100ft
100 MHz	3.35 dB/100ft
135 MHz	3.95 dB/100ft
143 MHz	4.05 dB/100ft
180 MHz	4.55 dB/100ft
270 MHz	5.6 dB/100ft
360 MHz	6.55 dB/100ft
540 MHz	8.3 dB/100ft
720 MHz	9.65 dB/100ft
750 MHz	9.9 dB/100ft
1000 MHz	11.6 dB/100ft

#### Delay

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

#### Voltage

Non-UL Voltage Rating
2300 V RMS

#### Temperature Range

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

#### Mechanical Characteristics

Bulk Cable Weight:	27 lbs/1000ft
Max. Pull Tension:	43 lbs
Min. Bend Radius/Minor Axis:	2.5 in

#### Standards

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 - Burial:	Yes
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes

## Plenum/Non-Plenum

Plenum (Y/N):	No
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## Related Part Numbers

### Variants

Item #	Color	Put-Up Type	Length	UPC
9209 010U500	Black	UnReel	500 ft	612825357827
9209 010U1000	Black	UnReel	1,000 ft	612825357766

## History

Update and Revision:	Revision Number: 0.323 Revision Date: 11-09-2022
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