

**Part Number: 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**

**Product Overview**

Environmental Space:	Indoor/Outdoor
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**Physical Characteristics (Overall)**

**Conductor**

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

Conductor Count:	1
Conductor Size:	23 AWG

**Insulation**

Material	Nominal Diameter
PE - Polyethylene	0.146 in

**Outer Shield Material**

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Aluminum/Polyester/Aluminum	Duofoil®	100 %
Braid	2	TC - Tinned Copper		95 %

**Outer Jacket Material**

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

#### 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 Temp Range:	-55°C To +80°C

#### Mechanical Characteristics

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

#### Standards

RG Type:	59/U Type
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
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Suitability - Burial:	Yes
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes

### Plenum/Non-Plenum

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

#### Variants

Item #	Color
9209 010U1000	Black
9209 010U500	Black

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