

**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 Material

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Alum / Poly / Alum	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

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:	No
EU RoHS Compliance Date (yyyy-mm-dd):	2004-01-01
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	Putup Type	Length	UPC
9209 010U500	Black	UnReel	500 ft	612825357827
9209 010U1000	Black	UnReel	1,000 ft	612825357766

## History

Update and Revision:	Revision Number: 0.233 Revision Date: 04-28-2020
----------------------	--

© 2020 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.

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Belden Wire & Cable:](#)

[9209 010U1000](#) [9209 010U500](#)