

Product: [9209A](#) 

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



## Product Description

23 AWG solid .022" bare copper conductor, flame-retardant semi-foam polyethylene insulation, Duofoil®; tinned copper braid shield (95% coverage), PVC 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
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#### Insulation

Material	Nominal Diameter
PE - Polyethylene (Foam)	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
PVC - Polyvinyl Chloride	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]	Min. Structural Return Loss (SRL)
5-216 MHz	27 dB

216-850 MHz	23 dB
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#### High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.4 dB/100ft
3.6 MHz	0.5 dB/100ft
10 MHz	1.2 dB/100ft
71.5 MHz	2.9 dB/100ft
135 MHz	4 dB/100ft
270 MHz	5.6 dB/100ft
360 MHz	6.6 dB/100ft
540 MHz	8.6 dB/100ft
720 MHz	10.1 dB/100ft
750 MHz	10.4 dB/100ft
1000 MHz	12.8 dB/100ft

#### Delay

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

#### Voltage

UL Voltage Rating	Voltage Rating [V]
300 V RMS	30 V RMS
300 V RMS	

#### Temperature Range

Non-UL Temp Rating:	75°C
UL Temp Rating:	60°C
Operating Temp Range:	-40°C To +75°C

#### Mechanical Characteristics

Bulk Cable Weight:	33 lbs/1000ft
Max. Pull Tension:	43 lbs
Min. Bend Radius/Minor Axis:	2.25 in

#### Standards

NEC/(UL) Compliance:	CMR
CEC/C(UL) Compliance:	CMG
UL AWM Style Compliance:	UL Style 1354
RG 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 - Indoor:	Yes
Suitability - Outdoor:	Yes

#### Flammability, LS0H, Toxicity Testing

UL Flammability:	UL1666 Vertical Shaft
CSA Flammability:	FT4
UL voltage rating:	300 V RMS