

## 9209A Coax - Miniature

For more Information  
please call

1-800-Belden1



### Description:

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

### Physical Characteristics (Overall)

#### Conductor

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
1	23	Solid	BC - Bare Copper	.022

#### Insulation

Insulation Material:

Insulation Material	Dia. (in.)
FR Semi-Foam PE - Flame Retardant Semi-Foam Polyethylene	.146

#### Outer Shield

Outer Shield Material:

Layer #	Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
1	Duofoil®	Tape	Aluminum Foil-Polyester Tape-Aluminum Foil	100
2		Braid	TC - Tinned Copper	95

#### Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

#### Overall Cable

Overall Nominal Diameter: 0.220 in.

### Mechanical Characteristics (Overall)

Operating Temperature Range: -40°C To +75°C

UL Temperature Rating: 60°C

Non-UL Temperature Rating: 75°C

Bulk Cable Weight: 33 lbs/1000 ft.

Max. Recommended Pulling Tension: 43 lbs.

Min. Bend Radius (Install)/Minor Axis: 2.500 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMR

CEC/C(UL) Specification: CMG

AWM Specification: UL Style 1354

EU CE Mark: No

EU Directive 2000/53/EC (ELV): Yes

EU Directive 2002/95/EC (RoHS): Yes

EU RoHS Compliance Date (mm/dd/yyyy): 10/13/2005

EU Directive 2002/96/EC (WEEE): Yes

EU Directive 2003/11/EC (BFR): Yes

CA Prop 65 (CJ for Wire & Cable): Yes

MII Order #39 (China RoHS): Yes

RG Type: Mini 59/U

## Flame Test

UL Flame Test: UL1666 Vertical Shaft

## Suitability

Suitability - Indoor: Yes

Suitability - Outdoor: Yes

Suitability - Aerial: Yes - When supported by a messenger wire

## Plenum/Non-Plenum

Plenum (Y/N): No

## Electrical Characteristics (Overall)

### Nom. Characteristic Impedance:

Impedance (Ohm)

75

### Nom. Inductance:

Inductance (µH/ft)

.118

### Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)

21.0

### Nominal Velocity of Propagation:

VP (%)

66

### Nominal Delay:

Delay (ns/ft)

1.54

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

20.4

### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

4.5

### Nom. Attenuation:

Freq. (MHz) Attenuation (dB/100 ft.)

1	.4
3.6	.5
10.0	1.2
71.5	2.9
135	4.0
270	5.6
360	6.6
540	8.6
720	10.1
750	10.4
1000	12.8

### Max. Operating Voltage - UL:

Voltage
30 V RMS
300 V RMS

**Other Electrical Characteristic 1:** Impedance tested in accordance w/ASTM D-4566 Para 43.2 Opt 2 using a 75 Ohm fixed bridge & termination.

**Other Electrical Characteristic 2:** Return Loss tested in accordance w/ASTM D-4566 para 45.3 using a 75 Ohm fixed bridge&termination.

**Minimum Structural Return Loss:**

Start Freq. (MHz)	Stop Freq. (MHz)	Min. SRL (dB)
5.000	216.000	27.000
216.000	850.000	23.000

**Sweep Test**

**Sweep Testing:** 100% Sweep tested 5 MHz to 850 MHz.

**Related Documents:**

No related documents are available for this product

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9209A 010U1000	1,000 FT	35.000 LB	BLACK		#23 FRSFPE SH FRPVC

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