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1-800-Belden1



## General Description:

23 AWG solid .023" bare copper or bare copper-covered steel conductor, flame-retardant semi-foam Polyethylene insulation, bare copper braid shield (95% coverage), PVC jacket.

## Physical Characteristics (Overall)

### Conductor

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
1	23	Solid	BCCS - Bare Copper Covered Steel	.023

Total Number of Conductors: 1

### Insulation

Insulation Material:

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

### Outer Shield

Outer Shield Material:

Type	Outer Shield Material	Coverage (%)
Braid	BC - Bare Copper	95

### Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

### Overall Cable

Overall Nominal Diameter: 0.242 in.

## Mechanical Characteristics (Overall)

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

UL Temperature Rating: 75°C (UL AWM Style 1354)

Bulk Cable Weight: 39 lbs/1000 ft.

Max. Recommended Pulling Tension: 74 lbs.

Min. Bend Radius/Minor Axis: 2.500 in.

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMG

CEC/C(UL) Specification: CMG

AWM Specification: UL Style 1354 (30 V 75°C)

EU Directive 2011/65/EU (ROHS II): Yes

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: 59/U

**Flame Test**

UL Flame Test:	UL1685 FT4 Loading
CSA Flame Test:	FT4

**Suitability**

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes

**Plenum/Non-Plenum**

Plenum (Y/N):	No
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**Electrical Characteristics (Overall)**

**Nom. Characteristic Impedance:**

<b>Impedance (Ohm)</b>
75

**Nom. Inductance:**

<b>Inductance (µH/ft)</b>
.112

**Nom. Capacitance Conductor to Shield:**

<b>Capacitance (pF/ft)</b>
20.5

**Nominal Velocity of Propagation:**

<b>VP (%)</b>
66

**Nominal Delay:**

<b>Delay (ns/ft)</b>
1.54

**Nom. Conductor DC Resistance:**

<b>DCR @ 20°C (Ohm/1000 ft)</b>
49.0

**Nominal Outer Shield DC Resistance:**

<b>DCR @ 20°C (Ohm/1000 ft)</b>
2.6

**Nom. Attenuation:**

Freq. (MHz)	Attenuation (dB/100 ft.)
1	.6
5	.9
10	1.1
50	2.4
100	3.4
200	4.9
400	7.0
700	10.1
900	11.7
1000	13.2

**Max. Operating Voltage - UL:**

<b>Voltage</b>
30 V RMS (UL AWM Style 1354); 300 V RMS

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8241A 010U1000	1,000 FT	40.000 LB	BLACK		RG-59/U TYPE COAX
8241A 010I000	1,000 FT	42.000 LB	BLACK	C	RG-59/U TYPE COAX

**Notes:**  
C = CRATE REEL PUT-UP.

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