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1-800-Belden1



## Description:

23 AWG solid .023" bare copper or bare copper-covered conductor, 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	BC - Bare Copper	.023

### Insulation

#### Insulation Material:

Insulation Material	Dia. (in.)
PE - 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:	-20°C To +80°C
UL Temperature Rating:	80°C (UL AWM Style 1354)
Bulk Cable Weight:	34 lbs/1000 ft.
Max. Recommended Pulling Tension:	62 lbs.
Min. Bend Radius (Install)/Minor Axis:	2.500 in.

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CM
CEC/C(UL) Specification:	CM
AWM Specification:	UL Style 1354 (30 V 80°C)
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):	01/01/2004
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 UL Loading
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### Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes

### Plenum/Non-Plenum

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

### Nom. Characteristic Impedance:

Impedance (Ohm)
75

### Nom. Inductance:

Inductance (μH/ft)
.131

### Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)
20.5

### 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)
2.9

### Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
1	.4
10	1.1
50	2.4
100	3.4
200	4.9
400	7.0
700	9.7
900	11.1
1000	12.0

### Max. Power Rating:

Freq. (MHz)	Rating (W)
50	470
100	310
300	160
500	115
1000	76

**Max. Operating Voltage - UL:**

Voltage
30 V RMS (UL AWM Style 1354); 300 V RMS

**Max. Operating Voltage - Non-UL:**

Voltage
1700 V RMS

**Notes (Overall)**

**Notes:** RG-59/U Type standard Analog Video Coax. CM Rated Version of 8241.

**Related Documents:**

No related documents are available for this product

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8241B 010U1000	1,000 FT	36.000 LB	BLACK		#23 PE BRD PVC COAX
8241B 010I1000	1,000 FT	37.000 LB	BLACK	C	#23 PE BRD PVC COAX

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

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