

8241B Coax - 75 Ohm Coax

For more Information
please call

1-800-Belden1

**General 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

Total Number of Conductors: 1

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/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 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):	01/01/2004
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EU Directive 2002/96/EC (WEEE):	Yes
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EU Directive 2003/11/EC (BFR):	Yes
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CA Prop 65 (CJ for Wire & Cable):	Yes
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MII Order #39 (China RoHS):	Yes
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RG Type:	59/U
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Flame Test

UL Flame Test:	UL1685 UL Loading
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Suitability

Suitability - Indoor:	Yes
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Suitability - Outdoor:	Yes
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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.

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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