# **Detailed Specifications & Technical Data**

**ENGLISH MEASUREMENT VERSION** 



### 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.

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# **Physical Characteristics (Overall)**

### Conductor

#### AWG:

# Coax	AWG	Stranding	<b>Conductor Material</b>	Dia. (in.)
1	23	Solid	BC - Bare Copper	.023

Total Number of Conductors:

### Insulation

#### **Insulation Material:**

Insulation Material	Dia. (in.)
PE - Polyethylene	.146

#### **Outer Shield**

### **Outer Shield Material:**

	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.	

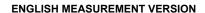
# **Applicable Specifications and Agency Compliance (Overall)**

# **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

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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
Suitability	
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Plenum/Non-Plenum	
Plenum (Y/N):	No

# **Electrical Characteristics (Overall)**

Nom. Characteristic Impedance:



Nom. Inductance:



Nom. Capacitance Conductor to Shield:



Nominal Velocity of Propagation:



**Nominal Delay:** 



Nom. Conductor DC Resistance:



**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

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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 0101000	1,000 FT	37.000 LB	BLACK	С	#23 PE BRD PVC COAX

#### Notes:

C = CRATE REEL PUT-UP.

Revision Number: 1 Revision Date: 05-14-2007

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