# **Detailed Specifications & Technical Data**

### **ENGLISH MEASUREMENT VERSION**



### 8241A Coax - 75 Ohm Coax

For more Information please call

1-800-Belden1



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

#### 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 Cabling**

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 (Install)/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 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

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Plenum/Non-Plenum Plenum (Y/N):	No
Suitability - Outdoor:	Yes
Suitability - Indoor:	Yes
Suitability	
C(UL) Flame Test:	FT4
UL Flame Test:	UL1685 FT4 Loading
lame Test	
RG Type:	59/U
MII Order #39 (China RoHS):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
EU Directive 2003/11/EC (BFR):	Yes
ELL Directive 2002/44/EC (DED).	Voc

## **Electrical Characteristics (Overall)**

Nom. Characteristic Impedance:



Nom. Inductance:



Nom. Capacitance Conductor to Shield:



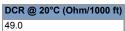
Nominal Velocity of Propagation:



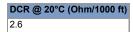
**Nominal Delay:** 



Nom. Conductor DC Resistance:



Nominal Outer Shield DC Resistance:



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:

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

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## **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 0101000	1,000 FT	42.000 LB	BLACK	С	RG-59/U TYPE COAX

#### Notes:

C = CRATE REEL PUT-UP.

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