# **Detailed Specifications & Technical Data**

#### METRIC MEASUREMENT VERSION



#### 8241A Coax - 75 Ohm Coax

For more Information please call

1-800-Belden1



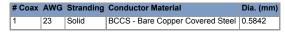
#### **General Description:**

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:



**Total Number of Conductors:** 

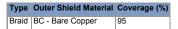
Insulation

# Insulation Material:

1	Insulation Material	Dia. (mm)	
	FR Semi-Foam PE - Flame Retardant Semi-Foam Polyethylene	3.7084	

#### **Outer Shield**

Outer Shield Material:



#### **Outer Jacket**

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

#### **Overall Cable**

Overall Nominal Diameter:

6.147 mm

# **Mechanical Characteristics (Overall)**

Operating Temperature Range:	-40°C To +75°C
UL Temperature Rating:	75°C (UL AWM Style 1354)
Bulk Cable Weight:	58.040 Kg/Km
Max. Recommended Pulling Tension:	329.167 N
Min. Bend Radius/Minor Axis:	63.500 mm

#### **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

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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	

#### **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/km)
8.5306

Nom. Attenuation:

_				
	Freq. (MHz)	Attenuation (dB/100m)		
	1	1.9686		
	5	2.9529		
	10	3.6091		
	50	7.8744		
	100	11.1554		
	200	16.0769		
	400	22.967		
	700	33.1381		
	900	38.3877		
	1000	43.3092		

# Max. Operating Voltage - UL:

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

C = CRATE REEL PUT-UP.

Revision Number: 2 Revision Date: 10-17-2012

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