

## 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:

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

Total Number of Conductors: 1

**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 Cable**

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/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 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

**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:****Impedance (Ohm)**

75

**Nom. Inductance:****Inductance (µH/ft)**

.112

**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)**

49.0

**Nominal Outer Shield DC Resistance:****DCR @ 20°C (Ohm/1000 ft)**

2.6

**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

**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 010I1000	1,000 FT	42.000 LB	BLACK	C	RG-59/U TYPE COAX

**Notes:**

C = CRATE REEL PUT-UP.

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