

**8241 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, 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	0.023

**Insulation:**

Insulation Material

Ins Material	Dia. (in.)
PE - Polyethylene	0.146

**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: .240 in.

**Mechanical Characteristics (Overall):**

Operating Temperature Range	-40°C To +75°C
UL Temperature Rating	75°C
Non-UL Temperature Rating	75°C
Bulk Cable Weight:	36 lbs/1000 ft.
Max. Recommended Pulling Tension:	62 lbs.
Min. Bend Radius (Install):	2.500 in.

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

**Applicable Standards:**

NEC/(UL) Specification	CM
AWM Specification	UL Style 1354
EU CE Mark (Y/N)	Yes
EU RoHS Compliant (Y/N)	Yes
EU RoHS Compliance Date (mm/dd/yyyy)	01/01/2004
RG Type	59/U

**Flame Test:**

UL Flame Test	UL1685 UL Loading
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**Suitability:**

Suitability - Indoor	Yes
Suitability - Outdoor	Yes - Black Only
Suitability - Aerial	Yes - Black Only, when supported by a messenger wire.

**Plenum/Non-Plenum:**

Plenum (Y/N)	N
Plenum Number	88241, 82241

**Electrical Characteristics (Overall):**

Nom. Characteristic Impedance

<b>Impedance (Ohm)</b>
75.000

Nom. Inductance

<b>Inductance (µH/ft)</b>
0.131

Nom. Capacitance Conductor to Shield

<b>Capacitance (pF/ft)</b>
20.500

Nominal Velocity of Propagation

<b>VP (%)</b>
66

Nominal Delay

<b>Delay (ns/ft)</b>
1.540

Nom. Conductor DC Resistance

<b>DCR @ 20°C (Ohm/1000 ft)</b>
49.000

Nom. Attenuation

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Attenuation (dB/100 ft.)
	1.000			0.600
	10.000			1.100
	50.000			2.400
	100.000			3.400
	200.000			4.900
	400.000			7.000
	700.000			9.700
	900.000			11.100
	1000.000			12.000

Nom. Power Rating

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Rating (W)
	50.000			470.000
	100.000			310.000
	300.000			160.000
	500.000			115.000
	1000.000			76.000

Max. Operating Voltage - UL

<b>Voltage</b>
300 V RMS
30 V RMS

Max. Operating Voltage - Non-UL

<b>Voltage</b>
1700 V RMS

Nominal Outer Shield DC Resistance

<b>DCR @ 20°C (Ohm/1000 ft)</b>
2.600

**PUT UPS AND COLORS:**

Item #	Putup	Ship Weight	Jacket Color	Notes	Item Desc
8241 002U1000	1,000 FT	38.000 LB	RED		RG59/U TYPE COAX RED RED
8241 003U1000	1,000 FT	38.000 LB	ORANGE		RG59/U TYPE COAX ORG ORG
8241 004U1000	1,000 FT	38.000 LB	YELLOW		RG59/U TYPE COAX YEL YEL
8241 005U1000	1,000 FT	38.000 LB	GREEN, DARK		RG59/U TYPE COAX DGRN GRNDK
8241 006U1000	1,000 FT	38.000 LB	BLUE, LIGHT		RG59/U TYPE COAX LBLU BLULT
8241 009U1000	1,000 FT	38.000 LB	WHITE		RG59/U TYPE COAX WHT WHT
8241 010100	100 FT	4.400 LB	BLACK		RG59/U TYPE COAX BLK BLK
8241 0101000	1,000 FT	40.000 LB	BLACK	C	RG59/U TYPE COAX BLK BLK
8241 0102000	2,000 FT	80.000 LB	BLACK	C	RG59/U TYPE COAX BLK BLK
8241 010500	500 FT	18.500 LB	BLACK	C	RG59/U TYPE COAX BLK BLK
8241 0105000	5,000 FT	200.000 LB	BLACK	C	RG59/U TYPE COAX BLK BLK
8241 010U1000	1,000 FT	38.000 LB	BLACK		RG59/U TYPE COAX BLK BLK
8241 010U500	500 FT	19.500 LB	BLACK		RG59/U TYPE COAX BLK BLK

**Notes:**

C = CRATE REEL PUT-UP.

Revision Number: 2    Revision Date: 05-14-2007

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