

**8241 Coax - 75 Ohm Coax**

		<p>For more information please call <b>1-800-Belden1</b></p> <p><u>See Put-ups and Colors</u></p>
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**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:**

**CONDUCTOR:**

Number of Coax	1
Total Number of Conductors	1
RG Type	59/U
AWG	23
Stranding	Solid
Conductor Diameter	.023 in.
Conductor Material	BCCS - Bare Copper Covered Steel

**INSULATION:**

Insulation Material	PE - Polyethylene
Insulation Diameter	.146 in.

**OUTER SHIELD:**

Outer Shield Type	Braid
Outer Shield Material	BC - Bare Copper
Outer Shield % Coverage	95 %

**OUTER JACKET:**

Outer Jacket Material	PVC - Polyvinyl Chloride
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**OVERALL NOMINAL DIAMETER:**

Overall Nominal Diameter	.240 in.
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**MECHANICAL CHARACTERISTICS:**

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)	2.5 in.
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**APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:**

**APPLICABLE STANDARDS:**

NEC/(UL) Specification	CMX
CEC/C(UL) Specification	CMX
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

**FLAME TEST:**

UL Flame Test	UL1685 UL Loading, VW-1
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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:**

Nom. Characteristic Impedance	75 Ohms
Nom. Inductance	.131 µH/ft
Nom. Capacitance Conductor to Shield	20.5 pF/ft
Nominal Velocity of Propagation	66 %
Nominal Delay	1.54 ns/ft
Nom. Conductor DC Resistance @ 20 Deg. C	49.0 Ohms/1000 ft
Nominal Outer Shield DC Resistance @ 20°C	2.6 Ohms/1000 ft

Nom. Attenuation :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Nom. Attenuation (dB/100 ft.)
	1			.6
	10			1.1
	50			2.4
	100			3.4
	200			4.9
	400			7.0
	700			9.7
	900			11.1
	1000			12.0

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Nom. Power Rating :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Nom. Power Rating (W)
	50			470
	100			310
	300			160
	500			115
	1000			76

Max. Operating Voltage - UL 300 V RMS, 30 V RMS

Max. Operating Voltage - Non-UL 1700 V RMS

**PUT-UPS AND COLORS:**

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
8241 002U1000	RG59/U TYPE COAX RED	U1000	38	RED	
8241 003U1000	RG59/U TYPE COAX ORG	U1000	38	ORANGE	
8241 004U1000	RG59/U TYPE COAX YEL	U1000	38	YELLOW	
8241 005U1000	RG59/U TYPE COAX DGRN	U1000	38	GREEN, DARK	
8241 006U1000	RG59/U TYPE COAX LBLU	U1000	38	BLUE, LIGHT	
8241 009U1000	RG59/U TYPE COAX WHT	U1000	38	WHITE	
8241 010100	RG59/U TYPE COAX BLK	100	4.4	BLACK	
8241 0101000	RG59/U TYPE COAX BLK	1000	40	BLACK	C
8241 0102000	RG59/U TYPE COAX BLK	2000	80	BLACK	C
8241 010500	RG59/U TYPE COAX BLK	500	20	BLACK	C
8241 0105000	RG59/U TYPE COAX BLK	5000	200	BLACK	C
8241 010U1000	RG59/U TYPE COAX BLK	U1000	38	BLACK	
8241 010U500	RG59/U TYPE COAX BLK	U500	20	BLACK	

C = CRATE REEL PUT-UP.

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