

82241 Coax - 75 Ohm Coax

 For more Information  
 please call

1-800-Belden1

**General Description:**

23 AWG Solid .023" bare copper-covered steel conductor, plenum, FEP insulation, bare copper braid shield (95% coverage), Flamarrest® 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.)
FEP - Fluorinated Ethylene Propylene	.134

**Outer Shield**

Outer Shield Material:

Type	Outer Shield Material	Coverage (%)
Braid	BC - Bare Copper	95.000

**Outer Jacket**

Outer Jacket Material:

Outer Jacket Trade Name	Outer Jacket Material
Flamarrest®	LS PVC - Low Smoke Polyvinyl Chloride

**Overall Cable**

Overall Nominal Diameter: 0.190 in.

**Mechanical Characteristics (Overall)**

Operating Temperature Range: -20°C To +75°C

UL Temperature Rating: 60°C

Non-UL Temperature Rating: 75°C

Bulk Cable Weight: 34 lbs/1000 ft.

Max. Recommended Pulling Tension: 62 lbs.

Min. Bend Radius/Minor Axis: 2 in.

**Applicable Specifications and Agency Compliance (Overall)****Applicable Standards & Environmental Programs**

NEC/(UL) Specification: CMP

CEC/C(UL) Specification: CMP

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): 10/01/2005

EU Directive 2002/96/EC (WEEE): Yes

EU Directive 2003/11/EC (BFR): Yes

CA Prop 65 (CJ for Wire &amp; Cable): Yes

MII Order #39 (China RoHS): Yes

RG Type: 59/U

**Flame Test**

UL Flame Test: NFPA 262

**Suitability**

Suitability - Indoor: Yes

**Plenum/Non-Plenum**

Plenum (Y/N): Yes

Non-Plenum Number: 8241

**Electrical Characteristics (Overall)****Nom. Characteristic Impedance:**

Impedance (Ohm)

75

**Nom. Inductance:**

Inductance (µH/ft)

.126

**Nom. Capacitance Conductor to Shield:**

Capacitance (pF/ft)

19.5

**Nominal Velocity of Propagation:**

VP (%)

69.5

**Nominal Delay:**

Delay (ns/ft)

1.45

**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	.5
10	1.0
50	2.3
100	3.3
200	5.2
400	8.4
700	11.6
900	13.8
1000	14.8

**Max. Operating Voltage - UL:**

Voltage

300 V RMS

**Max. Operating Voltage - Non-UL:**

Voltage

1700 V RMS

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
82241 877U1000	1,000 FT	36.000 LB	NATURAL		#23 FEP RG-59/U FLMRST
82241 877U500	500 FT	18.500 LB	NATURAL		#23 FEP RG59/U FLMRST
82241 8771000	1,000 FT	36.000 LB	NATURAL	C	#23 FEP RG-59/U FLMRST

**Notes:**

C = CRATE REEL PUT-UP.

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