

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. (mm)
1	23	Solid	BCCS - Bare Copper Covered Steel	0.5842

Total Number of Conductors: 1

#### Insulation

Insulation Material:

Insulation Material	Dia. (mm)
FEP - Fluorinated Ethylene Propylene	3.4036

#### 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: 4.826 mm

### 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: 50.599 Kg/Km

Max. Recommended Pulling Tension: 275.788 N

Min. Bend Radius/Minor Axis: 50.800 mm

### 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 & Cable):	Yes
MII Order #39 (China RoHS):	Yes
RG Type:	59/U

**Flame Test**

UL Flame Test:	NFPA 262
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**Suitability**

Suitability - Indoor:	Yes
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**Plenum/Non-Plenum**

Plenum (Y/N):	Yes
Non-Plenum Number:	8241

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

Impedance (Ohm)
75

**Nom. Inductance:**

Inductance (μH/m)
0.413406

**Nom. Capacitance Conductor to Shield:**

Capacitance (pF/m)
63.9795

**Nominal Velocity of Propagation:**

VP (%)
69.5

**Nominal Delay:**

Delay (ns/m)
4.75745

**Nom. Conductor DC Resistance:**

DCR @ 20°C (Ohm/km)
160.769

**Nominal Outer Shield DC Resistance:**

DCR @ 20°C (Ohm/km)
8.5306

**Nom. Attenuation:**

Freq. (MHz)	Attenuation (dB/100m)
1	1.6405
10	3.281
50	7.5463
100	10.8273
200	17.0612
400	27.5604
700	38.0596
900	45.2778
1000	48.5588

**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	305 MT	16.329 KG	NATURAL		#23 FEP RG-59/U FLMRST
82241 877U500	152 MT	8.391 KG	NATURAL		#23 FEP RG59/U FLMRST
82241 8771000	305 MT	16.329 KG	NATURAL	C	#23 FEP RG-59/U FLMRST

**Notes:**

C = CRATE REEL PUT-UP.

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