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1-800-Belden1



## General Description:

23 AWG Solid .023" bare copper-covered steel conductor, plenum, FEP insulation, bare copper braid shield (95% coverage), FEP 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	3.3528

### Outer Shield

Outer Shield Material:

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

### Outer Jacket

Outer Jacket Material:

Outer Jacket Material
FEP - Fluorinated Ethylene Propylene

### Overall Cable

Overall Nominal Diameter: 4.826 mm

## Mechanical Characteristics (Overall)

Operating Temperature Range: -70°C To +200°C

Non-UL Temperature Rating: 200°C

Bulk Cable Weight: 53.575 Kg/Km

Max. Recommended Pulling Tension: 275.788 N

Min. Bend Radius/Minor Axis: 63.500 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): 04/01/2005

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

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

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

MIL Order #39 (China RoHS): Yes

RG Type: 59/U

### Flame Test

UL Flame Test: NFPA 262

CSA Flame Test:	FT6
<b>Suitability</b>	
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Suitability - Burial:	Yes
<b>Plenum/Non-Plenum</b>	
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
88241 0101000	1,000 FT	39.000 LB	BLACK	C	23 SH FEP RG-59/U COAX
88241 010500	500 FT	20.500 LB	BLACK	C	23 SH FEP RG-59/U COAX

**Notes:**

C = CRATE REEL PUT-UP.

Revision Number: 1    Revision Date: 08-21-2012

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