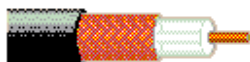


For more Information  
please call

1-800-Belden1



## General 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. (mm)
1	23	Solid	BCCS - Bare Copper Covered Steel	0.584

Total Number of Conductors: 1

### Insulation

Insulation Material:

Insulation Material	Dia. (mm)
PE - Polyethylene	3.7084

### 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 Cable

Overall Nominal Diameter: 6.096 mm

## 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: 55.063 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: CM

CEC/C(UL) Specification: CM

AWM Specification: UL Style 1354

EU Directive 2011/65/EU (ROHS II): Yes

EU CE Mark: Yes

EU Directive 2000/53/EC (ELV): Yes

EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004
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:	UL1685 UL Loading
----------------	-------------------

### Suitability

Suitability - Indoor:	Yes
-----------------------	-----

### Plenum/Non-Plenum

Plenum (Y/N):	No
Plenum Number:	88241, 82241

## Electrical Characteristics (Overall)

### Nom. Characteristic Impedance:

Impedance (Ohm)

75

### Nom. Inductance:

Inductance (µH/m)

0.429811

### Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)

67.2605

### Nominal Velocity of Propagation:

VP (%)

66

### Nominal Delay:

Delay (ns/m)

5.05274

### 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	1.9686
10	3.6091
50	7.8744
100	11.1554
200	16.0769
400	22.967
700	31.8257
900	36.4191
1000	39.372

### Nom. Power Rating:

Freq. (MHz) Rating (W)

50 470

## METRIC MEASUREMENT VERSION

## 8241 Coax - 75 Ohm Coax

100	310
300	160
500	115
1000	76

### Max. Operating Voltage - UL:

Voltage
300 V RMS
30 V RMS

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

Voltage
1700 V RMS

## Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8241 002U1000	305 MT	17.237 KG	RED		RG59/U TYPE COAX RED
8241 003U1000	305 MT	17.237 KG	ORANGE		RG59/U TYPE COAX ORG
8241 004U1000	305 MT	17.237 KG	YELLOW		RG59/U TYPE COAX YEL
8241 005U1000	305 MT	17.237 KG	GREEN, DARK		RG59/U TYPE COAX DGRN
8241 006U1000	305 MT	17.237 KG	BLUE, LIGHT		RG59/U TYPE COAX LBLU
8241 009U1000	305 MT	17.237 KG	WHITE		RG59/U TYPE COAX WHT
8241 010U1000	305 MT	17.237 KG	BLACK		RG59/U TYPE COAX BLK
8241 010U500	152 MT	8.845 KG	BLACK		RG59/U TYPE COAX BLK
8241 010100	30 MT	1.996 KG	BLACK		RG59/U TYPE COAX BLK
8241 0101000	305 MT	18.144 KG	BLACK	C	RG59/U TYPE COAX BLK
8241 0102000	610 MT	36.288 KG	BLACK	C	RG59/U TYPE COAX BLK
8241 010500	152 MT	9.072 KG	BLACK	C	RG59/U TYPE COAX BLK
8241 0105000	1,524 MT	90.719 KG	BLACK	C	RG59/U TYPE COAX BLK

### Notes:

C = CRATE REEL PUT-UP.

Revision Number: 3    Revision Date: 08-27-2011

© 2013 Belden, Inc  
All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.