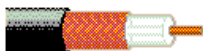


8241 Coax - 75 Ohm Coax

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. (in.)
1	23	Solid	BCCS - Bare Copper Covered Steel	0.023

Total Number of Conductors: 1

Insulation

Insulation Material:

Insulation Material	Dia. (in.)
PE - Polyethylene	.146

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: 0.240 in.

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: 37 lbs/1000 ft.

Max. Recommended Pulling Tension: 62 lbs.

Min. Bend Radius/Minor Axis: 2.500 in.

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

MIL 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/ft)

.131

Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)

20.5

Nominal Velocity of Propagation:

VP (%)

66

Nominal Delay:

Delay (ns/ft)

1.54

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	.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

Nom. Power Rating:

Freq. (MHz) Rating (W)

50	470
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	1,000 FT	38.000 LB	RED		RG59/U TYPE COAX RED
8241 003U1000	1,000 FT	38.000 LB	ORANGE		RG59/U TYPE COAX ORG
8241 004U1000	1,000 FT	38.000 LB	YELLOW		RG59/U TYPE COAX YEL

8241 Coax - 75 Ohm Coax

8241 005U1000	1,000 FT	38.000 LB	GREEN, DARK		RG59/U TYPE COAX DGRN
8241 006U1000	1,000 FT	38.000 LB	BLUE, LIGHT		RG59/U TYPE COAX LBLU
8241 009U1000	1,000 FT	38.000 LB	WHITE		RG59/U TYPE COAX WHT
8241 010U1000	1,000 FT	38.000 LB	BLACK		RG59/U TYPE COAX BLK
8241 010U500	500 FT	19.500 LB	BLACK		RG59/U TYPE COAX BLK
8241 010100	100 FT	4.400 LB	BLACK		RG59/U TYPE COAX BLK
8241 0101000	1,000 FT	40.000 LB	BLACK	C	RG59/U TYPE COAX BLK
8241 0102000	2,000 FT	80.000 LB	BLACK	C	RG59/U TYPE COAX BLK
8241 010500	500 FT	20.000 LB	BLACK	C	RG59/U TYPE COAX BLK
8241 0105000	5,000 FT	200.000 LB	BLACK	C	RG59/U TYPE COAX BLK

Notes:

C = CRATE REEL PUT-UP.

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

© 2014 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.