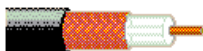


## 8241 Coax - 75 Ohm Coax

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.