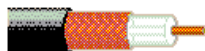


## 8241 Coax - 75 Ohm Coax



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

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