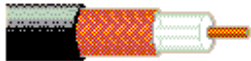


For more Information  
please call

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        |
| 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/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 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.

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