

8241B Coax - 75 Ohm Coax

 For more Information  
 please call

1-800-Belden1

**Description:**

23 AWG solid .023" bare copper or bare copper-covered 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     | BC - Bare Copper   | .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: 0.242 in.

**Mechanical Characteristics (Overall)**

|                                   |                          |
|-----------------------------------|--------------------------|
| Operating Temperature Range:      | -20°C To +80°C           |
| UL Temperature Rating:            | 80°C (UL AWM Style 1354) |
| Bulk Cable Weight:                | 34 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 (30 V 80°C) |
| EU CE Mark:                           | No                        |
| 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 |
| Suitability - Outdoor: | Yes |

**Plenum/Non-Plenum**

|               |    |
|---------------|----|
| Plenum (Y/N): | No |
|---------------|----|

**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) |
|--------------------------|
| 20.4                     |

**Nominal Outer Shield DC Resistance:**

| DCR @ 20°C (Ohm/1000 ft) |
|--------------------------|
| 2.9                      |

**Nom. Attenuation:**

| Freq. (MHz) | Attenuation (dB/100 ft.) |
|-------------|--------------------------|
| 1           | .4                       |
| 10          | 1.1                      |
| 50          | 2.4                      |
| 100         | 3.4                      |
| 200         | 4.9                      |
| 400         | 7.0                      |
| 700         | 9.7                      |
| 900         | 11.1                     |
| 1000        | 12.0                     |

**Max. Power Rating:**

| Freq. (MHz) | Rating (W) |
|-------------|------------|
| 50          | 470        |
| 100         | 310        |
| 300         | 160        |

|      |     |
|------|-----|
| 500  | 115 |
| 1000 | 76  |

**Max. Operating Voltage - UL:**

| Voltage                                 |
|-----------------------------------------|
| 30 V RMS (UL AWM Style 1354); 300 V RMS |

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

| Voltage    |
|------------|
| 1700 V RMS |

**Notes (Overall)**

**Notes:** RG-59/U Type standard Analog Video Coax. CM Rated Version of 8241.

**Put Ups and Colors:**

| Item #         | Putup    | Ship Weight | Color | Notes | Item Desc           |
|----------------|----------|-------------|-------|-------|---------------------|
| 8241B 010U1000 | 1,000 FT | 36.000 LB   | BLACK |       | #23 PE BRD PVC COAX |
| 8241B 010I1000 | 1,000 FT | 37.000 LB   | BLACK | C     | #23 PE BRD PVC COAX |

**Notes:**

C = CRATE REEL PUT-UP.

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