

## 8241A Coax - 75 Ohm Coax

For more Information  
please call

1-800-Belden1

**Description:**

23 AWG solid .023" bare copper or bare copper-covered steel conductor, flame-retardant semi-foam 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 | .023       |

**Insulation****Insulation Material:**

| Insulation Material                                      | Dia. (in.) |
|----------------------------------------------------------|------------|
| FR Semi-Foam PE - Flame Retardant Semi-Foam 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:           | -40°C To +75°C           |
| UL Temperature Rating:                 | 75°C (UL AWM Style 1354) |
| Bulk Cable Weight:                     | 39 lbs/1000 ft.          |
| Max. Recommended Pulling Tension:      | 74 lbs.                  |
| Min. Bend Radius (Install)/Minor Axis: | 2.500 in.                |

**Applicable Specifications and Agency Compliance (Overall)****Applicable Standards & Environmental Programs**

|                                       |                           |
|---------------------------------------|---------------------------|
| NEC/(UL) Specification:               | CMG                       |
| CEC/C(UL) Specification:              | CMG                       |
| AWM Specification:                    | UL Style 1354 (30 V 75°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): | 10/13/2005                |
| 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 FT4 Loading |
| C(UL) Flame Test: | FT4                |

**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) |
|--------------------|
| .112               |

**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                       |
| 5           | .9                       |
| 10          | 1.1                      |
| 50          | 2.4                      |
| 100         | 3.4                      |
| 200         | 4.9                      |
| 400         | 7.0                      |
| 700         | 10.1                     |
| 900         | 11.7                     |
| 1000        | 13.2                     |

**Max. Operating Voltage - UL:**

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

## Related Documents:

No related documents are available for this product

## Put Ups and Colors:

| Item #         | Putup    | Ship Weight | Color | Notes | Item Desc         |
|----------------|----------|-------------|-------|-------|-------------------|
| 8241A 010U1000 | 1,000 FT | 40.000 LB   | BLACK |       | RG-59/U TYPE COAX |
| 8241A 010I1000 | 1,000 FT | 42.000 LB   | BLACK | C     | RG-59/U TYPE COAX |

**Notes:**

C = CRATE REEL PUT-UP.

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