

## 9251 Coax - RG-8/U Type

For more Information  
please call

1-800-Belden1

**Description:**

RG-8/U type, 13 AWG stranded (7x21) .085" bare copper conductor, polyethylene insulation, bare copper braid shield (97% coverage), non-contaminating PVC jacket.

**Physical Characteristics (Overall)****Conductor****AWG:**

| # Coax | AWG | Stranding | Conductor Material | Dia. (in.) |
|--------|-----|-----------|--------------------|------------|
| 1      | 13  | 7x21      | BC - Bare Copper   | .085       |

Total Number of Conductors: 1

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

| Insulation Material | Wall Thickness (in.) |
|---------------------|----------------------|
| PE - Polyethylene   | .285                 |

**Outer Shield****Outer Shield Material:**

| Type  | Outer Shield Material | Coverage (%) |
|-------|-----------------------|--------------|
| Braid | BC - Bare Copper      | 97           |

**Outer Jacket****Outer Jacket Material:**

| Outer Jacket Material                        |
|----------------------------------------------|
| PVCNC - Polyvinyl Chloride Non-Contaminating |

**Overall Cable**

Overall Nominal Diameter: 0.405 in.

**Mechanical Characteristics (Overall)**

|                                   |                          |
|-----------------------------------|--------------------------|
| Operating Temperature Range:      | -40°C To +80°C           |
| UL Temperature Rating:            | 60°C (UL AWM Style 1354) |
| Bulk Cable Weight:                | 99 lbs/1000 ft.          |
| Max. Recommended Pulling Tension: | 190 lbs.                 |
| Min. Bend Radius/Minor Axis:      | 4 in.                    |

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

|                                       |                           |
|---------------------------------------|---------------------------|
| NEC/(UL) Specification:               | CMX                       |
| CEC/C(UL) Specification:              | CMX                       |
| AWM Specification:                    | UL Style 1354 (30 V 60°C) |
| 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): | 10/01/2005                |

|                                   |           |
|-----------------------------------|-----------|
| 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       |
| Military Specification:           | MIL-C-17D |
| RG Type:                          | 8/U       |

**Flame Test**

|                |      |
|----------------|------|
| UL Flame Test: | VW-1 |
|----------------|------|

**Plenum/Non-Plenum**

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

**Electrical Characteristics (Overall)****Nom. Characteristic Impedance:**

Impedance (Ohm)

52

**Nom. Inductance:**

Inductance (μH/ft)

.079

**Nom. Capacitance Conductor to Shield:**

Capacitance (pF/ft)

28.5

**Nominal Velocity of Propagation:**

VP (%)

66

**Nominal Delay:**

Delay (ns/ft)

1.54

**Nom. Conductor DC Resistance:**

DCR @ 20°C (Ohm/1000 ft)

1.9

**Nominal Outer Shield DC Resistance:**

DCR @ 20°C (Ohm/1000 ft)

1.2

**Nom. Attenuation:**

| Freq. (MHz) | Attenuation (dB/100 ft.) |
|-------------|--------------------------|
| 1           | .2                       |
| 10          | .6                       |
| 50          | 1.3                      |
| 100         | 1.9                      |
| 200         | 2.8                      |
| 400         | 4.2                      |
| 700         | 5.9                      |
| 900         | 6.9                      |
| 1000        | 7.4                      |
| 4000        | 23.2                     |

**Max. Operating Voltage - UL:**

Voltage

150 V RMS

30 V RMS (UL AWM Style 1354)

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

Voltage

3700 V RMS

**Put Ups and Colors:**

| Item #       | Putup    | Ship Weight | Color | Notes | Item Desc      |
|--------------|----------|-------------|-------|-------|----------------|
| 9251 0101000 | 1,000 FT | 114.000 LB  | BLACK | C     | #13 PE BRD PVC |
| 9251 010500  | 500 FT   | 57.500 LB   | BLACK | C     | #13 PE BRD PVC |

**Notes:**

C = CRATE REEL PUT-UP.

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**Наши контакты:**

**Телефон:** +7 812 627 14 35

**Электронная почта:** [sales@st-electron.ru](mailto:sales@st-electron.ru)

**Адрес:** 198099, Санкт-Петербург,  
Промышленная ул, дом № 19, литера Н,  
помещение 100-Н Офис 331