

## 8219 Coax - RG-58A/U Type

For more Information  
please call

1-800-Belden1

**Description:**

RG-58A/U type, 20 AWG stranded (19x32) .037" tinned copper conductor, foam polyethylene insulation, tinned copper braid shield (96% coverage), PVC jacket.

**Physical Characteristics (Overall)****Conductor**

AWG:

| # Coax | AWG | Stranding | Conductor Material | Dia. (in.) |
|--------|-----|-----------|--------------------|------------|
| 1      | 20  | 19x32     | TC - Tinned Copper | .037       |

**Insulation**

Insulation Material:

| Insulation Material     | Dia. (in.) |
|-------------------------|------------|
| FPE - Foam Polyethylene | .114       |

**Outer Shield**

Outer Shield Material:

| Type  | Outer Shield Material | Coverage (%) |
|-------|-----------------------|--------------|
| Braid | TC - Tinned Copper    | 93           |

**Outer Jacket**

Outer Jacket Material:

| Outer Jacket Material    |
|--------------------------|
| PVC - Polyvinyl Chloride |

**Overall Cabling**

Overall Nominal Diameter: 0.194 in.

**Mechanical Characteristics (Overall)**

|                                        |                          |
|----------------------------------------|--------------------------|
| Operating Temperature Range:           | -40°C To +80°C           |
| UL Temperature Rating:                 | 80°C (UL AWM Style 1354) |
| Bulk Cable Weight:                     | 25 lbs/1000 ft.          |
| Max. Recommended Pulling Tension:      | 50 lbs.                  |
| Min. Bend Radius (Install)/Minor Axis: | 2 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:                           | 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      |
| PMSHA Specification:              | SC-182/5 |
| RG Type:                          | 58A/U    |

**Flame Test**

|                |                   |
|----------------|-------------------|
| UL Flame Test: | UL1685 UL Loading |
|----------------|-------------------|

**Suitability**

|                        |                                                              |
|------------------------|--------------------------------------------------------------|
| Suitability - Indoor:  | Yes                                                          |
| Suitability - Outdoor: | Yes - Black jacket only                                      |
| Suitability - Aerial:  | Yes - Black jacket only - when supported by a messenger wire |

**Plenum/Non-Plenum**

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

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

| Impedance (Ohm) |
|-----------------|
| 54              |

**Nom. Inductance:**

| Inductance (μH/ft) |
|--------------------|
| 0.065              |

**Nom. Capacitance Conductor to Shield:**

| Capacitance (pF/ft) |
|---------------------|
| 26.5                |

**Nominal Velocity of Propagation:**

| VP (%) |
|--------|
| 73     |

**Nominal Delay:**

| Delay (ns/ft) |
|---------------|
| 1.39          |

**Nom. Conductor DC Resistance:**

| DCR @ 20°C (Ohm/1000 ft) |
|--------------------------|
| 8.8                      |

**Nominal Outer Shield DC Resistance:**

| DCR @ 20°C (Ohm/1000 ft) |
|--------------------------|
| 4.1                      |

**Nom. Attenuation:**

| Freq. (MHz) | Attenuation (dB/100 ft.) |
|-------------|--------------------------|
| 1           | 0.4                      |
| 10          | 1.3                      |
| 50          | 3.1                      |
| 100         | 4.5                      |
| 200         | 6.6                      |
| 400         | 10.0                     |
| 700         | 14.2                     |
| 900         | 16.6                     |
| 1000        | 18.1                     |

**Max. Operating Voltage - UL:**

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

**Other Electrical Characteristic 1:**

Actual Impedance specification is 53.5 +/- 3 ohms.

**Related Documents:**

No related documents are available for this product

**Put Ups and Colors:**

| Item #        | Putup    | Ship Weight | Color | Notes | Item Desc         |
|---------------|----------|-------------|-------|-------|-------------------|
| 8219 009U500  | 500 FT   | 13.500 LB   | WHITE |       | RG58A/U TYPE COAX |
| 8219 0091000  | 1,000 FT | 26.000 LB   | WHITE | C     | RG58A/U TYPE COAX |
| 8219 010U1000 | 1,000 FT | 27.000 LB   | BLACK |       | RG58A/U TYPE COAX |
| 8219 010U500  | 500 FT   | 14.000 LB   | BLACK |       | RG58A/U TYPE COAX |
| 8219 0101000  | 1,000 FT | 26.000 LB   | BLACK | C     | RG58A/U TYPE COAX |
| 8219 010500   | 500 FT   | 13.000 LB   | BLACK | C     | RG58A/U TYPE COAX |

**Notes:**

C = CRATE REEL PUT-UP.

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