

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

For more Information  
please call

1-800-Belden1

**General Description:**

RG-58A/U type, 20 AWG stranded (19x32) .037" tinned copper conductor, foam polyethylene insulation, tinned copper braid shield (95% coverage), PVC jacket.

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

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

Total Number of Conductors: 1

**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    | 95.000       |

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

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

**Overall Cable**

Overall Nominal Diameter: 0.193 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/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.

**Put Ups and Colors:**

| Item #        | Putup    | Ship Weight | Color | Notes | Item Desc         |
|---------------|----------|-------------|-------|-------|-------------------|
| 8219 009U500  | 500 FT   | 14.000 LB   | WHITE |       | RG58A/U TYPE COAX |
| 8219 0091000  | 1,000 FT | 28.000 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 | 28.000 LB   | BLACK | C     | RG58A/U TYPE COAX |
| 8219 010500   | 500 FT   | 14.500 LB   | BLACK | C     | RG58A/U TYPE COAX |

**Notes:**

C = CRATE REEL PUT-UP.

**Test Reports****a) UL**

- i) UL Test Reports are available on-line through the UL Client Document Access web portal.
- ii) UL Inspection Reports are also available through the UL Client Document Access web portal.

**b) CSA**

- i) CSA "Descriptive Report and Test Results" documents are available on the CSA Gateway Portal.
- ii) CSA Inspection Reports are maintained on the CSA issued 'flash drive' at each manufacturing location.

\* other test data may be available if requested at time of order.

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