

## 9141 Coax - Double Braided RG-59/U Type

For more Information  
please call

1-800-Belden1

**Description:**

20 AWG solid .031" bare copper conductor, polyethylene insulation, tinned copper/bare copper braid shield (98% coverage), polyethylene jacket.

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

| # Coax | AWG | Stranding | Conductor Material | Dia. (in.) |
|--------|-----|-----------|--------------------|------------|
| 1      | 20  | Solid     | BC - Bare Copper   | .031       |

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

| Insulation Material | Dia. (in.) |
|---------------------|------------|
| PE - Polyethylene   | .200       |

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

| Layer # | Type  | Outer Shield Material | Coverage (%) |
|---------|-------|-----------------------|--------------|
| 1       | Braid | TC - Tinned Copper    | 98           |
| 2       | Braid | TC - Tinned Copper    | 98           |

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

| Outer Jacket Material |
|-----------------------|
| PE - Polyethylene     |

**Overall Cable**

Overall Nominal Diameter: 0.305 in.

**Mechanical Characteristics (Overall)**

|  |                 |
|--|-----------------|
| Operating Temperature Range:           | -55°C To +80°C  |
| Non-UL Temperature Rating:             | 80°C            |
| Bulk Cable Weight:                     | 68 lbs/1000 ft. |
| Max. Recommended Pulling Tension:      | 164 lbs.        |
| Min. Bend Radius (Install)/Minor Axis: | 3 in.           |

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

|                                       |            |
|---------------------------------------|------------|
| 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        |

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|                             |     |
|-----------------------------|-----|
| MII Order #39 (China RoHS): | Yes |
|-----------------------------|-----|

|          |      |
|----------|------|
| RG Type: | 59/U |
|----------|------|

**Suitability**

|                       |     |
|-----------------------|-----|
| Suitability - Indoor: | Yes |
|-----------------------|-----|

|                        |    |
|------------------------|----|
| Suitability - Outdoor: | No |
|------------------------|----|

|                       |    |
|-----------------------|----|
| Suitability - Aerial: | No |
|-----------------------|----|

**Plenum/Non-Plenum**

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

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

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

|    |
|----|
| 75 |
|----|

**Nom. Capacitance Conductor to Shield:**

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

|    |
|----|
| 20 |
|----|

**Nominal Velocity of Propagation:**

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

|    |
|----|
| 66 |
|----|

**Nominal Delay:**

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

|      |
|------|
| 1.54 |
|------|

**Nom. Conductor DC Resistance:**

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

|     |
|-----|
| 9.9 |
|-----|

**Nominal Outer Shield DC Resistance:**

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

|     |
|-----|
| 1.1 |
|-----|

**Nom. Attenuation:**

| Freq. (MHz) | Attenuation (dB/100 ft.) |
|-------------|--------------------------|
|-------------|--------------------------|

|      |     |
|------|-----|
| 1    | 0.3 |
| 3.6  | 0.5 |
| 10.0 | 0.8 |
| 71.5 | 2.0 |
| 135  | 3.5 |
| 270  | 4.3 |
| 360  | 5.0 |
| 540  | 6.2 |
| 720  | 7.2 |
| 750  | 7.4 |
| 1000 | 9.1 |

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

|         |
|---------|
| Voltage |
|---------|

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

**Other Electrical Characteristic 1:**

Impedance Tested in accord with ASTM D-4566 Paragraph 43.2, Option 2 using a 75 Ohm fixed bridge and termination.

**Other Electrical Characteristic 2:**

Return Loss Tested in accord with ASTM D-4566 Paragraph 45.3, using a 75 Ohm fixed bridge and termination.

**Minimum Return Loss:**

| Start Freq. (MHz) | Stop Freq. (MHz) | Min. RL (dB) |
|-------------------|------------------|--------------|
|-------------------|------------------|--------------|

|     |     |    |
|-----|-----|----|
| 5   | 216 | 27 |
| 217 | 850 | 23 |

## 9141 Coax - Double Braided RG-59/U Type

## Sweep Test

**Sweep Testing:** 100% Sweep tested 5 MHz to 850 MHz.

## Notes (Overall)

**Notes:** Dielectric Strength: 8 kV.

## Related Documents:

No related documents are available for this product

## Put Ups and Colors:

| Item #       | Putup    | Ship Weight | Color              | Notes | Item Desc         |
|--------------|----------|-------------|--------------------|-------|-------------------|
| 9141 3681000 | 1,000 FT | 73.000 LB   | CLEAR, TRANSPARENT | C     | 75 OHM VIDEO COAX |

**Notes:**

C = CRATE REEL PUT-UP.

Revision Number: 2    Revision Date: 05-14-2007

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