



Product: [9275](#)



Analog Video, RG59, 20 AWG Solid BCCS, Foil + Alum Braid, CM PVC Jacket

Product Description

Analog Video, Series 59, 20 AWG solid .032" bare copper-covered steel conductor, gas-injected foam polyethylene insulation, Duofoil® or Duobond®; aluminum braid shield (40% coverage), CM PVC jacket.

Technical Specifications

Physical Characteristics (Overall)

| Conductor        |           |                                  |                  |             |
|------------------|-----------|----------------------------------|------------------|-------------|
| AWG              | Stranding | Material                         | Nominal Diameter | No. of Coax |
| 20               | Solid     | BCCS - Bare Copper Covered Steel | 0.032 in         | 1           |
| Conductor Count: |           |                                  | 1                |             |

| Insulation                |                  |
|---------------------------|------------------|
| Material                  | Nominal Diameter |
| PE - Polyethylene (Foam)  | 0.144 in         |
| Table Notes: Gas Injected |                  |

| Outer Shield |       |                               |                     |              |
|--------------|-------|-------------------------------|---------------------|--------------|
| Type         | Layer | Material                      | Material Trade Name | Coverage [%] |
| Tape         | 1     | Tri-Laminate (Alum+Poly+Alum) | Duofoil®            | 100%         |
| Braid        | 2     | Aluminum                      |                     | 40%          |

| Outer Jacket             |                  |
|--------------------------|------------------|
| Material                 | Nominal Diameter |
| PVC - Polyvinyl Chloride | 0.237 in         |

Electrical Characteristics

| Conductor DCR         |                          |                     |
|-----------------------|--------------------------|---------------------|
| Nominal Conductor DCR | Nominal Outer Shield DCR | Outer Conductor DCR |
| 44.5 Ohm/1000ft       | 17 Ohm/1000ft            | 17 Ohm/1000ft       |

| Capacitance                          |
|--------------------------------------|
| Nom. Capacitance Conductor to Shield |
| 16.2 pF/ft                           |

| Inductance         |
|--------------------|
| Nominal Inductance |
| 0.097 µH/ft        |

| Impedance                        |
|----------------------------------|
| Nominal Characteristic Impedance |
| 75 Ohm                           |

| Return Loss (RL) |                                   |
|------------------|-----------------------------------|
| Frequency [MHz]  | Min. Structural Return Loss (SRL) |

|           |       |
|-----------|-------|
| 5-550 MHz | 18 dB |
|-----------|-------|

High Frequency (Nominal/Typical)

| Frequency [MHz] | Nom. Insertion Loss | Nom. Structural Return Loss (SRL) |
|-----------------|---------------------|-----------------------------------|
| 5 MHz           | 0.75 dB/100ft       | 18 dB                             |
| 55 MHz          | 1.84 dB/100ft       |                                   |
| 211 MHz         | 3.36 dB/100ft       |                                   |
| 270 MHz         | 3.79 dB/100ft       |                                   |
| 300 MHz         | 3.99 dB/100ft       |                                   |
| 350 MHz         | 4.33 dB/100ft       |                                   |
| 400 MHz         | 4.66 dB/100ft       |                                   |
| 450 MHz         | 4.96 dB/100ft       |                                   |
| 550 MHz         | 5.48 dB/100ft       |                                   |
| 750 MHz         | 6.51 dB/100ft       |                                   |
| 870 MHz         | 7 dB/100ft          |                                   |
| 1000 MHz        | 7.68 dB/100ft       |                                   |

Delay

| Nominal Delay | Nominal Velocity of Propagation (VP) [%] |
|---------------|------------------------------------------|
| 1.2 ns/ft     | 83%                                      |

High Frequency

| Frequency [MHz] | Max. Insertion Loss (Attenuation) |
|-----------------|-----------------------------------|
| 5 MHz           | 0.86 dB/100ft                     |
| 55 MHz          | 2.05 dB/100ft                     |
| 211 MHz         | 3.80 dB/100ft                     |
| 270 MHz         | 4.22 dB/100ft                     |
| 300 MHz         | 4.45 dB/100ft                     |
| 350 MHz         | 4.80 dB/100ft                     |
| 400 MHz         | 5.10 dB/100ft                     |
| 450 MHz         | 5.40 dB/100ft                     |
| 550 MHz         | 5.95 dB/100ft                     |
| 600 MHz         | 6.20 dB/100ft                     |

Voltage

| UL Voltage Rating |
|-------------------|
| 300 V RMS         |

Temperature Range

|                              |                |
|------------------------------|----------------|
| UL Temp Rating:              | 75°C           |
| Operating Temperature Range: | -40°C To +80°C |

Mechanical Characteristics

|                              |               |
|------------------------------|---------------|
| Bulk Cable Weight:           | 22 lbs/1000ft |
| Max. Pull Tension:           | 80 lbs        |
| Min. Bend Radius/Minor Axis: | 2.5 in        |

Standards

|                       |          |
|-----------------------|----------|
| NEC/(UL) Compliance:  | CATV, CM |
| CEC/C(UL) Compliance: | CM       |
| CPR Euroclass:        | Eca      |
| RG Type:              | 59       |
| Series Type:          | 59       |

Applicable Environmental and Other Programs

|                                              |                              |
|----------------------------------------------|------------------------------|
| Environmental Space:                         | Indoor (Not Riser or Plenum) |
| EU Directive 2000/53/EC (ELV):               | Yes                          |
| EU Directive 2003/96/EC (BFR):               | Yes                          |
| EU Directive 2011/65/EU (RoHS 2):            | Yes                          |
| EU Directive 2012/19/EU (WEEE):              | Yes                          |
| EU Directive 2015/863/EU (RoHS 2 amendment): | Yes                          |

|                             |                               |
|-----------------------------|-------------------------------|
| EU Directive Compliance:    | EU Directive 2003/11/EC (BFR) |
| EU CE Mark:                 | Yes                           |
| MII Order #39 (China RoHS): | Yes                           |

Suitability

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

Flammability, LS0H, Toxicity Testing

|                    |                   |
|--------------------|-------------------|
| UL Flammability:   | UL1685 UL Loading |
| UL voltage rating: | 300 V RMS         |

Plenum/Non-Plenum

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

Related Part Numbers

Variants

| Item #        | Color | Put-Up Type | Length   | UPC          |
|---------------|-------|-------------|----------|--------------|
| 9275 010U500  | Black | UnReel      | 500 ft   | 612825358916 |
| 9275 0101000  | Black | Reel        | 1,000 ft | 612825226352 |
| 9275 010U1000 | Black | UnReel      | 1,000 ft | 612825226369 |
| 9275 009U1000 | White | UnReel      | 1,000 ft | 612825226376 |

History

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.459 Revision Date: 04-14-2023 |
|----------------------|--------------------------------------------------|

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