



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 μ H/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

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|----------------------|--|
| Update and Revision: | Revision Number: 0.458 Revision Date: 12-19-2022 |
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