

Product: [9209A](#) 



Precision Video Coax, Miniature, #23 Solid BC, Foil + 95% TC Braid, CMR

Product Description

23 AWG solid .022" bare copper conductor, flame-retardant semi-foam polyethylene insulation, Duofoil®; tinned copper braid shield (95% coverage), PVC jacket.

Technical Specifications

Physical Characteristics (Overall)

| Conductor | | | | |
|------------------|-----------|------------------|------------------|-------------|
| AWG | Stranding | Material | Nominal Diameter | No. of Coax |
| 23 | Solid | BC - Bare Copper | 0.022 in | 1 |
| Conductor Count: | | | | 1 |

| Insulation | |
|--------------------------|------------------|
| Material | Nominal Diameter |
| PE - Polyethylene (Foam) | 0.146 in |

| Outer Shield | | | | |
|--------------|-------|-------------------------------|---------------------|--------------|
| Type | Layer | Material | Material Trade Name | Coverage [%] |
| Tape | 1 | Tri-Laminate (Alum+Poly+Alum) | Duofoil® | 100% |
| Braid | 2 | Tinned Copper (TC) | | 95% |

| Outer Jacket | |
|--------------------------|------------------|
| Material | Nominal Diameter |
| PVC - Polyvinyl Chloride | 0.22 in |

Electrical Characteristics

| Conductor DCR | | | | |
|-----------------------|-----------------------|----------------------|--------------------------|---------------------|
| Nominal Conductor DCR | Nominal Conductor DCR | Conductor Resistance | Nominal Outer Shield DCR | Outer Conductor DCR |
| 20.4 Ohm/1000ft | 20.4 Ohm/1000ft | | 4.5 Ohm/1000ft | 4.5 Ohm/1000ft |

| Capacitance | |
|--------------------------------------|--|
| Nom. Capacitance Conductor to Shield | |
| 21 pF/ft | |

| Inductance | |
|--------------------|--|
| Nominal Inductance | |
| 0.118 µH/ft | |

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

| Return Loss (RL) | |
|------------------|-----------------------------------|
| Frequency [MHz] | Min. Structural Return Loss (SRL) |
| 5-216 MHz | 27 dB |

| | |
|-------------|-------|
| 216-850 MHz | 23 dB |
|-------------|-------|

High Frequency (Nominal/Typical)

| Frequency [MHz] | Nom. Insertion Loss |
|-----------------|---------------------|
| 1 MHz | 0.4 dB/100ft |
| 3.6 MHz | 0.5 dB/100ft |
| 10 MHz | 1.2 dB/100ft |
| 71.5 MHz | 2.9 dB/100ft |
| 135 MHz | 4 dB/100ft |
| 270 MHz | 5.6 dB/100ft |
| 360 MHz | 6.6 dB/100ft |
| 540 MHz | 8.6 dB/100ft |
| 720 MHz | 10.1 dB/100ft |
| 750 MHz | 10.4 dB/100ft |
| 1000 MHz | 12.8 dB/100ft |

Delay

| Nominal Delay | Nominal Velocity of Propagation (VP) [%] |
|---------------|--|
| 1.54 ns/ft | 66% |

Voltage

| UL Voltage Rating | Voltage Rating [V] |
|-------------------|--------------------|
| 300 V RMS | 30 V RMS |
| 300 V RMS | |

Temperature Range

| | |
|-----------------------|----------------|
| Non-UL Temp Rating: | 75°C |
| UL Temp Rating: | 60°C |
| Operating Temp Range: | -40°C To +75°C |

Mechanical Characteristics

| | |
|------------------------------|---------------|
| Bulk Cable Weight: | 33 lbs/1000ft |
| Max. Pull Tension: | 43 lbs |
| Min. Bend Radius/Minor Axis: | 2.25 in |

Standards

| | |
|--------------------------|---------------|
| NEC/(UL) Compliance: | CMR |
| CEC/C(UL) Compliance: | CMG |
| UL AWM Style Compliance: | UL Style 1354 |
| RG Type: | 59 |

Applicable Environmental and Other Programs

| | |
|--|-------------------------------|
| Environmental Space: | Indoor/Outdoor |
| EU Directive 2000/53/EC (ELV): | Yes |
| EU Directive 2003/11/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: | No |
| MII Order #39 (China RoHS): | Yes |

Suitability

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

Flammability, LS0H, Toxicity Testing

| | |
|--------------------|-----------------------|
| UL Flammability: | UL1666 Vertical Shaft |
| CSA Flammability: | FT4 |
| UL voltage rating: | 300 V RMS |

Plenum/Non-Plenum

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

Part Number

Variants

| Item # | Color | Put-Up Type | Length | UPC |
|----------------|-------|-------------|----------|--------------|
| 9209A 010U1000 | Black | UnReel | 1,000 ft | 612825225386 |

History

| | |
|----------------------|--|
| Update and Revision: | Revision Number: 0.303 Revision Date: 12-15-2021 |
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