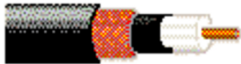




Product: [9224](#)



Audio Coax, Low Noise, RG-59, 22 AWG Solid BCCS, 95% BC Brd, PVC Jkt

Product Description

Audio Coax, Low Noise, RG-59, 22 AWG Solid Bare Copper Covered Steel Conductor, PE Insulation, PVC Conductive Layer, 95% Bare Copper Braid Shield, PVC Jacket

Technical Specifications

Product Overview

|                        |                                                     |
|------------------------|-----------------------------------------------------|
| Suitable Applications: | Low noise microphone, Analog audio, Instrumentation |
|------------------------|-----------------------------------------------------|

Physical Characteristics (Overall)

Conductor

| AWG | Stranding | Material                         | Nominal Diameter | No. of Coax |
|-----|-----------|----------------------------------|------------------|-------------|
| 22  | Solid     | BCCS - Bare Copper Covered Steel | 0.025 in         | 1           |

|                  |   |
|------------------|---|
| Conductor Count: | 1 |
|------------------|---|

Insulation

| Layer | Material                              | Nominal Diameter |
|-------|---------------------------------------|------------------|
| 1     | PE - Polyethylene                     | 0.146 in         |
| 2     | PVC - Polyvinyl Chloride (Conductive) | 0.154 in         |

Outer Shield

| Type  | Material         | Coverage [%] |
|-------|------------------|--------------|
| Braid | Bare Copper (BC) | 95%          |

Outer Jacket

| Material                 | Nominal Diameter |
|--------------------------|------------------|
| PVC - Polyvinyl Chloride | 0.242 in         |

Electrical Characteristics

Conductor DCR

| Nominal Conductor DCR | Nominal Conductor DCR Conductor Resistance | Nominal Outer Shield DCR | Outer Conductor DCR |
|-----------------------|--------------------------------------------|--------------------------|---------------------|
| 54 Ohm/1000ft         | 54 Ohm/1000ft                              | 2.5 Ohm/1000ft           | 2.5 Ohm/1000ft      |

Capacitance

| Nom. Capacitance Conductor to Shield |
|--------------------------------------|
| 22 pF/ft                             |

Inductance

| Nominal Inductance |
|--------------------|
| 0.124 µH/ft        |

Impedance

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

Delay

| Nominal Delay | Nominal Velocity of Propagation (VP) [%] |
|---------------|------------------------------------------|
| 1.56 ns/ft    | 65%                                      |

Voltage

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

|                                   |                                                                                |
|-----------------------------------|--------------------------------------------------------------------------------|
| Electrical Characteristics Notes: | NBS Low Noise Test (Modified) MIL-C-17 Paragraph 4.8.14, 5 mV Peak to Peak Max |
|-----------------------------------|--------------------------------------------------------------------------------|

Temperature Range

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

Mechanical Characteristics

|                              |               |
|------------------------------|---------------|
| Bulk Cable Weight:           | 36 lbs/1000ft |
| Max. Pull Tension:           | 80 lbs        |
| Min. Bend Radius/Minor Axis: | 2.4 in        |

Standards

|                |     |
|----------------|-----|
| CPR Euroclass: | Eca |
| RG Type:       | 59  |

Applicable Environmental and Other Programs

|                                              |                               |
|----------------------------------------------|-------------------------------|
| Environmental Space:                         | Indoor (Not Riser or Plenum)  |
| 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:                                  | Yes                           |
| MII Order #39 (China RoHS):                  | Yes                           |

Suitability

|                                    |     |
|------------------------------------|-----|
| Suitability - Aerial:              | No  |
| Suitability - Burial:              | No  |
| Suitability - Hazardous Locations: | No  |
| Suitability - Indoor:              | Yes |
| Suitability - Outdoor:             | No  |
| Suitability - Sunlight Resistance: | No  |

Plenum/Non-Plenum

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

Related Part Numbers

Variants

| Item #       | Color | Put-Up Type | Length   | UPC          |
|--------------|-------|-------------|----------|--------------|
| 9224 010U500 | Black | UnReel      | 500 ft   | 612825358145 |
| 9224 0101000 | Black | Reel        | 1,000 ft | 612825357810 |

Product Notes

|        |                                                                                                                                                      |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Notes: | Not recommended for RF use. Nominal voltage breakdown conductor to shield: 30 kV rms. Nominal voltage breakdown jacket (shield to water): 30 kV rms. |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------|

History

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.241 Revision Date: 04-29-2024 |
|----------------------|--------------------------------------------------|

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