



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 $\mu$ H/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
----------------------	--

© 2024 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.