



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
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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
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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
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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.
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History

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