



Product: <u>83242</u> ☑

Mil-Spec Coax, 50 Ohm, RG-142, 19 AWG Solid SCCS, Double 95% SC Braid, FEP Jkt, CMP, Commercial Non-QPL

Product Description

Mil-Spec Coax, 50 Ohm, RG-142, 19 AWG Solid Silvered Copper Covered Steel Conductor, PTFE Insulation, Double 95% Silvered Copper Braid Shield, FEP Jacket, CMP, Commercial, non-QPL

Technical Specifications

Produc	Product Overview						
Suitable Applications:			Aerospa	ice wireles	s communica	tion	
Constr	ruction De	tails					
RG Type:			142				
Conduct	or						
Size Stranding Nom. Diameter		Material					
19 AWG Solid 0.037 in S		SCCS - Silvered Copper Covered Ste		Stee			
Insulatio	n						
Material Nom. Ins			sulation [Diameter	Color Code		
PTFE - Polytetrafluoroethylene 0.116 in ((2.95 mm)	White		
Outer Sh	Outer Shield						
Layer Outer Shield Type Materi		ial	Coverage				
1 Braid Silvered Cop		oper (SC)	95%				

Braid Outer Jacket

Material	Nom. Diameter
FEP - Fluorinated Ethylene Propylene	0.195 in (4.95 mm)
Overall Cable Diameter (Nominal):	0.195 in (4.95 m

Electrical Characteristics

Silvered Copper (SC) 95%

Attenuation

Frequency	Nom. Attenuation		
1 MHz	0.3 dB/100ft		
10 MHz	1.1 dB/100ft		
50 MHz	2.6 dB/100ft		
100 MHz	3.8 dB/100ft		
200 MHz	5.6 dB/100ft		
400 MHz	6.9 dB/100ft		
700 MHz	10.7 dB/100ft		
900 MHz	12.3 dB/100ft		
1000 MHz	13.1 dB/100ft		
2000 MHz	19.3 dB/100ft		
3000 MHz	24.2 dB/100ft		
5000 MHz	32.6 dB/100ft		

8000 MHz | 43.2 dB/100ft

Electricals

Nom. Conductor DCR	Nom. Outer Shield DCR	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity of Prop.	
19.0 Ohm/1000ft	2.3 Ohm/1000ft (7.5 Ohm/km)	29 pF/ft (95 pF/m)	50 Ohm	70%	

Voltage

UL Voltage Rating	Voltage Rating
300 V (CMP)	1400 V (Mil-Spec)

Mechanical Characteristics

Temperature

UL Temperature	Operating
200°C	-70°C to +200°C

Bend Radius

Installation Min.

2 in (51 mm)

Max. Pull Tension:	103 lbs (46.7 kg)	
Bulk Cable Weight:	42 lbs/1000ft	

Standards and Compliance

Environmental Suitability:	Indoor - Plenum, Indoor, Outdoor, UV Resistance, Aerial - When supported by messenger wire				
Sustainability:	CA Prop 65				
Flammability / Reaction to Fire:	NFPA 262				
NEC / UL Compliance:	CMP				
CEC / C(UL) Compliance:	CMP				
Military Compliance:	Commercial, non-QPL product (M17/158-00001)				

History

Update and Revision:	Revision Number: 0.510 Revision Date: 04-13-2023	

Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC
83242 001100	Brown	Reel	100 ft	612825203612
83242 001500	Brown	Reel	500 ft	612825203650
83242 0011000	Brown	Reel	1,000 ft	612825203629

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