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## 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**

## **Product Overview**

Suitable Applications: Aerosp		Aerospa	ce wireles	s communicat		
Const	ruction De	etails				
RG Typ	be:			142		
Conduc	tor					
Size	Stranding	Nom.	Diameter		Mate	rial
19 AW	G Solid	0.037	' in	SCCS - Sil	vered Co	pper Covered
Insulation	on					
	Material		Nom.	Insulation D	Diameter	Color Code
PTFE -	Polytetrafluor	oethyle	ne 0.116	in (2.95 mm)	)	White
Outer S	hield					
Layer	Outer Shield	Type	Mat	erial	Coverag	
1	Braid	Type		opper (SC)		
2	Braid			opper (SC)		-
Outer Jacket						
	Materi			Nom. Dia		
FEP - F	FEP - Fluorinated Ethylene Propylene 0.195 in (4.95 mm)					
Overall	Overall Cable Diameter (Nominal): 0.195 in (4.95 mm)			)		

## **Electrical Characteristics**

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	

#### 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)	

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)
European Directive Compliance:	REACH

#### History

Update and Revision:	Revision Number: 0.512 Revision Date: 04-29-2024

#### **Part Numbers**

#### Variants

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

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