



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

Product	roduct Overview						
Suitable Applications:		Aer	Aerospace wireless communication				
Constru	Construction Details						
RG Type:		142	142				
Conducto	Conductor						
Size Stranding Nom. Diam		ameter	er Material				
19 AWG Solid 0.037 in			SCCS - Silvered Copper Covered				
Insulation	nsulation						
	Material		Nom. I	nsulation D	Diameter C	Color Code	
PTFE - Polytetrafluoroethylene 0.1		0.116 ii	116 in (2.95 mm)		Vhite		
Outer Shir	Duter Shield						
Layer   Outer Shield Type   Material   Coverage							

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1	Braid	Silvered Copper (SC)	95%
2	Braid	Silvered Copper (SC)	95%

## Outer Jacket

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

## **Electrical Characteristics**

### Attenuation

Nom. Attenuation
0.3 dB/100ft
1.1 dB/100ft
2.6 dB/100ft
3.8 dB/100ft
5.6 dB/100ft
6.9 dB/100ft
10.7 dB/100ft
12.3 dB/100ft
13.1 dB/100ft
19.3 dB/100ft
24.2 dB/100ft
32.6 dB/100ft
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)
European Directive Compliance:	REACH

## History

Update and Revision:	Revision Number: 0.514 Revision Date: 09-07-2025	
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## **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

Footnote: C - CRATE REEL PUT-UP., E - MAY CONTAIN MORE THAN 1 PIECE. MINIMUM LENGTH OF ANY ONE PIECE IS 25'.

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