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Product: 83284

Mil-Spec Coax, 50 Ohm, RG-316, 26 AWG Str SCCS, 95% SC Braid, FEP Jkt, Commercial Non-QPL

Product Description

Mil-Spec Coax, 50 Ohm, RG-316, 26 AWG (7x34) Silvered Copper Covered Steel Conductor, PTFE Insulation, 95% Silvered Copper Braid Shield, FEP Jacket, Commercial, non-QPL

Technical Specifications

Product Overview

Suitable Applications:	Aerospace wireless communication		
Construction Details			
RG Type:	316		
NG Type.	510		
Conductor			
Size Stranding Nom. Diam	eter Material		
26 AWG 7x34 0.020 in	SCCS - Silvered Copper Covered Steel		
Insulation			
	om. Insulation Diameter		
PTFE - Polytetrafluoroethylene 0.			
Outer Shield			
Outer Shield Type Materia	al Coverage		
Braid Silvered Copp	per (SC) 95%		
Outer leaded			
Outer Jacket			
Material	Nom. Diameter		
FEP - Fluorinated Ethylene Propyle	ene 0.098 in (2.5 mm)		
Overall Cable Diameter (Nominal):	0.098 in (2.5 mm)		

VSWR

Frequency	Max. VSWR	
1 MHz - 3000 MHz	per M17/113-RG316	

Attenuation

Frequency	Nom. Attenuation
1 MHz	1.2 dB/100ft
10 MHz	2.7 dB/100ft
50 MHz	5.6 dB/100ft
100 MHz	8.3 dB/100ft
200 MHz	12.0 dB/100ft
400 MHz	17.5 dB/100ft
700 MHz	23.7 dB/100ft
900 MHz	27.3 dB/100ft
1000 MHz	29.0 dB/100ft

1500 MHz	36.5 dB/100ft
2000 MHz	42.5 dB/100ft
2400 MHz	47.2 dB/100ft
3000 MHz	53.6 dB/100ft

Electricals

Nom. Conductor DCR	Nom. Outer Shield DCR	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity of Prop.
82.5 Ohm/1000ft (271 Ohm/km)	8.5 Ohm/1000ft (28 Ohm/km)	29 pF/ft (95 pF/m)	50 Ohm	70%

Voltage

Voltage Rating 900 V (Mil-Spec)

Mechanical Characteristics

Temperature			
Operating			
-70°C to +200°C			
Bend Radius			
Installation Min.			
1 in			

Max. Pull Tension:	27 lbs (12 kg)
Bulk Cable Weight:	10 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor/Outdoor, Indoor, Outdoor, Sunlight Resistance, Aerial - When supported by messenger wire
Sustainability:	CA Prop 65
Military Compliance:	Commercial, non-QPL product (M17/113-RG316)
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), REACH, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)

History

Update and Revision:	

vision: Revision Number: 0.351 Revision Date: 11-09-2022

Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC
83284 009100	White	Reel	100 ft	612825203797
83284 009500	White	Reel	500 ft	612825206118
83284 0091000	White	Reel	1,000 ft	612825203803

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