



**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
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**Construction Details**

RG Type:	316
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**Conductor**

AWG	Stranding	Nom. Diameter	Material
26	7x34	0.020 in	SCCS - Silvered Copper Covered Steel

**Insulation**

Material	Nom. Diameter
PTFE - Polytetrafluoroethylene	0.060 in

**Outer Shield**

Outer Shield Type	Material	Coverage
Braid	Silvered Copper (SC)	95%

**Outer Jacket**

Material	Nom. Diameter
FEP - Fluorinated Ethylene Propylene	0.098 in

**Electrical Characteristics**

**VSWR**

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

**Attenuation**

Frequency	Nom. Attenuation [dB/100ft]
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
82.5 Ohm/1000ft	8.5 Ohm/1000ft	29 pF/ft	50 Ohm	70%

#### Voltage

Non-UL Voltage Rating
900 V (Mil-Spec)

## Mechanical Characteristics

#### Temperature

Operating
-70°C to +200°C

#### Bend Radius

Installation Min.
1 in

Bulk Cable Weight:	10 lbs/1000ft
Max. Pull Tension:	27 lbs

## Standards and Compliance

Environmental Suitability:	Indoor/Outdoor, Indoor, Outdoor, Sunlight Resistance
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:	Revision Number: 0.341 Revision Date: 05-26-2021
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