



**Product:** [84316](#)

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

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

#### Insulation

Material	Nom. Insulation Diameter	Color Code
PTFE - Polytetrafluoroethylene	0.060 in (1.5 mm)	White

#### Outer Shield

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

#### Outer Jacket

Material	Nom. Diameter
FEP - Fluorinated Ethylene Propylene	0.098 in (2.5 mm)

Overall Cable Diameter (Nominal):	0.098 in (2.5 mm)
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#### Electrical Characteristics

##### 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 (25 mm)

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:	Revision Number: 0.502 Revision Date: 04-13-2023
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## Part Numbers

#### Variants

Item #	Color	Putup Type	Length	UPC	Footnote
84316 001100	Brown	Reel	100 ft	612825207016	E
84316 001500	Brown	Reel	500 ft	612825207139	E
84316 0011000	Brown	Reel	1,000 ft	612825207023	E

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