

**Product:** [83284](#) 



50 Ohm Coax, RG316, 26 AWG Stranded SCCCS, SPC Braid, FEP Jacket, commercial non-QPL product.

## Product Description

RG-316/U, 26 AWG stranded (7x34) .020" silver-coated copper-covered steel conductor, insulation, silver-plated copper braid shield (95% coverage), FEP jacket, commercial non-QPL product.

## Technical Specifications

### Physical Characteristics (Overall)

#### Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Coax
26	Stranded	SCCS - Silvered Copper Covered Steel	0.02 in	1

Conductor Count:	1
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#### Insulation

Material	Material Trade Name	Nominal Diameter
PTFE - Polytetrafluoroethylene	Teflon®	0.060 in

#### Outer Shield Material

Type	Material	Coverage [%]
Braid	SC - Silvered Copper	95%

#### Outer Jacket Material

Material	Nominal Diameter
FEP - Fluorinated Ethylene Propylene	0.098 in

### Electrical Characteristics

#### Conductor DCR

Nominal Conductor DCR	Outer Conductor DCR
84.1 Ohm/1000ft	8.4 Ohm/1000ft

#### Capacitance

Nom. Capacitance Conductor to Shield
29 pF/ft

#### Inductance

Nominal Inductance
0.067 µH/ft

#### Impedance

Nominal Characteristic Impedance
50 Ohm

#### Return Loss (RL)

Frequency [MHz]	Min. Structural Return Loss (SRL)
1 MHz - 3 GHz	30 dB

#### High Frequency (Nominal/Typical)

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
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 dB/100ft
400 MHz	17.5 dB/100ft
700 MHz	23.7 dB/100ft
900 MHz	27.3 dB/100ft
1000 MHz	29 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

#### Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.46 ns/ft	69.5%

#### Voltage

Description	Voltage Rating [V]
900V RMS	900 V RMS

Electrical Characteristics Notes:	VSWR/SRL per M17/113-RG316
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### Temperature Range

Non-UL Temp Rating:	200°C
Operating Temp Range:	-70°C To +200°C

### Mechanical Characteristics

Bulk Cable Weight:	10 lbs/1000ft
Max. Pull Tension:	21 lbs
Min Bend Radius/Minor Axis:	1 in

### Standards

RG Type:	316/U Type
Military Compliance:	Commercial, non-QPL product (M17/113-RG316)
Qualified Products List (QPL):	No

### Applicable Environmental and Other Programs

Environmental Space:	Indoor/Outdoor
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/96/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2005-04-01
MII Order #39 (China RoHS):	Yes

### Suitability

Suitability - Aerial:	Yes - When supported by messenger wire
Suitability - Burial:	No
Suitability - Hazardous Locations:	No
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Suitability - Sunlight Resistance:	No

### Plenum/Non-Plenum

Plenum (Y/N):	No
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Part Number

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

Footnote:	E - MAY CONTAIN MORE THAN 1 PIECE. MINIMUM LENGTH OF ANY ONE PIECE IS 25'.
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History

Update and Revision:	Revision Number: 0.290 Revision Date: 04-28-2020
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