

Product: [84316](#) 



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	6.5 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Shield
29 pF/ft

Inductance

Nominal Inductance
0.067 µH/ft

Impedance

Nominal Characteristic Impedance
50 Ohm

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

VSWR

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

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 Recommended Pulling Tension:	21 lbs
Min Bend Radius/Minor Axis:	1 in

Standards

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

Applicable Environmental and Other Programs

Environmental Space:	Outdoor - Aerial
EU Directive 2000/53/EC (ELV):	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
84316 001100	Brown	Reel	100 ft	612825207016
84316 001500	Brown	Reel	500 ft	612825207139
84316 0011000	Brown	Reel	1,000 ft	612825207023

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

History

Update and Revision: Revision Number: 0.285 Revision Date: 04-28-2020

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