

**Product: 84303** ☑



50 Ohm Coax, RG303, 19 AWG Solid SCCCS, SCC Braid, FEP Jacket, CL2P

### **Product Description**

RG-303/U, 19 AWG solid .037" silver-coated copper-covered steel conductor, plenum, TFE insulation, silver-coated copper braid shield (95% coverage), FEP jacket, commercial non-QPL product.

### **Technical Specifications**

### **Physical Characteristics (Overall)**

# Conductor 19 Solid SCCS - Silvered Copper Covered Steel 0.037 in 1 Conductor Count: Insulation Material Trade Name | Nominal Diameter PTFE - Polytetrafluoroethylene | Teflon® 0.116 in **Outer Shield** Type Braid 1 Silvered Copper (SC) 95% **Outer Jacket** Material **Nominal Diamete** FEP - Fluorinated Ethylene Propylene 0.17 in **Electrical Characteristics** Conductor DCR

Nominal Conductor DCR	Nominal Conductor DCR Conductor Resistance	Nominal Outer Shield DCR	Outer Conductor DCR
16.3 Ohm/1000ft	16.3 Ohm/1000ft	4.3 Ohm/1000ft	4.3 Ohm/1000ft

### Capacitance

Nom. Capacitance Conductor to Shield 29 pF/ft

### Inductance

Nominal Inducta 0.067 µH/ft

### Impedance

Nominal Characteristic Impedance 50 Ohm

### High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.3 dB/100ft
10 MHz	1.1 dB/100ft

50 MHz	2.7 dB/100ft
100 MHz	3.9 dB/100ft
200 MHz	5.6 dB/100ft
400 MHz	8.2 dB/100ft
700 MHz	11 dB/100ft
900 MHz	12.5 dB/100ft
1000 MHz	13.5 dB/100ft

### Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.46 ns/ft	70%

### High Frequency

Frequency [MHz]	Max. Insertion Loss (Attenuation)
50 MHz	2.7 dB/100ft
400 MHz	8.6 dB/100ft
1000 MHz	15 dB/100ft
3000 MHz	28 dB/100ft

### Voltage

Description	UL Voltage Rating	Voltage Rating [V]
MIL	150 V RMS	1400 V RMS (Mil Spec)

### VSWR

Frequency [MHz]	Max. VSWR
50 MHz - 1000 MHz	per M17/111-RG303

### **Temperature Range**

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

### **Mechanical Characteristics**

Bulk Cable Weight:	30 lbs/1000ft
Max. Pull Tension:	112 lbs
Min. Bend Radius/Minor Axis:	2 in

### Standards

NEC/(UL) Compliance:	CL2P
RG Type:	303
Military Compliance:	Commercial, non-QPL product (M17/111-RG303)
Qualified Products List (QPL):	No

## **Applicable Environmental and Other Programs**

Environmental Space:	Outdoor - Aerial
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/11/EC (BFR):	Yes
EU Directive 2011/65/EU (RoHS 2):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU (RoHS 2 amendment):	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	No
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

### Flammability, LS0H, Toxicity Testing

UL Flammability:	NFPA 262	
CSA Flammability:	FT6	
UL voltage rating:	150 V RMS	

#### Plenum/Non-Plenum

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Plenum (Y/N):	Yes		

### **Related Part Numbers**

#### Variants

Item #	Color	Put-Up Type	Length	UPC
84303 001500	Brown	Reel	500 ft	612825207009
84303 0011000	Brown	Reel	1,000 ft	612825206996
Footnote:				C - CRATE F

C - CRATE REEL PUT-UP., E - MAY CONTAIN MORE THAN 1 PIECE. MINIMUM LENGTH OF ANY ONE PIECE IS 25'.

### **History**

Update and Revision:	Revision Number: 0.361 Revision Date: 04-29-2024

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