

Part Number: 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**

## **Product Overview**

Environmental Space:		Outdoor - Aerial			
Physi	Physical Characteristics (Overall)				
Conductor					
AWG	Stranding	Mate	rial	Nominal Diameter	No. of Coax
19	Solid	SCCCS - Silver-coated	Copper-covered Steel	0.037 in	1
Conductor Count:		1			
AWG Size:		19			

#### Insulation

Material	Material Trade Name	Nominal Diameter
TFE - Tetrafluoroethylene	Teflon®	0.116 in

### Outer Shield Material

Type	Layer	Material	Coverage [%]
Braid	1	SCC - Silver-coated Copper	95 %

#### **Outer Jacket Material**

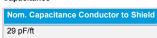
Material	Nominal Diameter
FEP - Fluorinated Ethylene Propylene	0.17 in

### **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



#### Inductance



#### 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	69.5 %

## High Freq

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 Temp Range:	-70°C To +200°C

## **Mechanical Characteristics**

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

## **Standards**

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

# **Applicable Environmental and Other Programs**

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/11/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:	No
EU RoHS Compliance Date (yyyy-mm-dd):	2005-04-01
CA Prop 65 (CJ for Wire & Cable):	Yes
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

#### **Part Number**

Plenum (Y/N):	Yes
Footnote:	C - CRATE REEL PUT-UP.
Footnote:	E - MAY CONTAIN MORE THAN 1 PIECE. MINIMUM LENGTH OF ANY ONE PIECE IS 25'.

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