

# Product: <u>84303</u> ☑

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



# **Product Description**

10 MHz

1.1 dB/100ft

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)**

AWG	Stranding		Material		Nominal Diameter	No. of Coax			
9	Solid	SCCS - S	ilvered Copper C	Covered Steel	0.037 in	1			
ndu	ctor Count:			1		-			
ulati	on								
uiau	Materia		Motorial Trac		minal Diameter				
DTEE	- Polytetraflu				16 in				
	1 orytotrane	orocatylen		0.1					
Duter S	shield								
Туре	Layer	Materia	Covera	ge [%]					
Braid	1 Silv	ered Copp	er (SC) 95%						
Outer J									
		erial		nal Diameter					
FEP - F	Fluorinated I	Ethylene Pi	opylene 0.17 ir	ו					
Electr	rical Cha	racteris			1				
Electr Conduc	rical Cha ctor DCR nal Conduct		tics	tor DCR Con	ductor Resistance	Nominal Out	r Shield DCR	Outer Conducto	r DCR
Electr Conduc Nomin	ctor DCR	or DCR N	tics	tor DCR Con	ductor Resistance	Nominal Out 4.3 Ohm/1000		Outer Conducto 4.3 Ohm/1000ft	r DCR
Electr Conduc Nomin 16.3 O	ctor DCR nal Conduct hm/1000ft	or DCR N	tics ominal Conduc	tor DCR Con	ductor Resistance				r DCR
Electr Conduc Nomin 16.3 O Capacit	ctor DCR nal Conduct hm/1000ft tance	or DCR N	ominal Conduc 5.3 Ohm/1000ft	tor DCR Con	ductor Resistance				r DCR
Conduct Nomin 16.3 O Capacit	ctor DCR nal Conduct hm/1000ft tance Capacitance	or DCR N	tics ominal Conduc	tor DCR Con	ductor Resistance				DCR
Electr Conduc Nomin 16.3 O Capacit Nom. (	ctor DCR nal Conduct hm/1000ft tance Capacitance	or DCR N	ominal Conduc 5.3 Ohm/1000ft	tor DCR Con	ductor Resistance				DCR
Electr Conduc Nomin 16.3 O Capacit Nom. ( 29 pF/f	ctor DCR nal Conduct hm/1000ft tance Capacitance ft	or DCR N	ominal Conduc 5.3 Ohm/1000ft	tor DCR Con	ductor Resistance				DCR
Electr Conduc Nomin 16.3 O Capacit Nom. 0 29 pF/f	ctor DCR nal Conduct hm/1000ft tance Capacitance ft	or DCR N	ominal Conduc 5.3 Ohm/1000ft	tor DCR Con	ductor Resistance				r DCR
Electr Conduc Nomin 16.3 O Capacit Nom. C 29 pF/f nducta Nomin	ctor DCR nal Conduct hm/1000ft tance Capacitance ft nnce nal Inductan	or DCR N	ominal Conduc 5.3 Ohm/1000ft	tor DCR Con	ductor Resistance				r DCR
Electr Conduc Nomin 16.3 O Capacit Nom. O 29 pF/f nducta Nomin 0.067 p	ctor DCR nal Conduct hm/1000ft tance Capacitance ft nnce nal Inductan	or DCR N	ominal Conduc 5.3 Ohm/1000ft	tor DCR Con	ductor Resistance				r DCR
Electr Conduc Nomin 16.3 O Capacit Nom. C 29 pF/f Inducta Nomin 0.067 µ	ctor DCR nal Conduct hm/1000ft tance Capacitance ft nal Inductan µH/ft nce	or DCR N 1 conduct	tics ominal Conduc 5.3 Ohm/1000ft or to Shield	tor DCR Con	ductor Resistance				r DCR
Electr Conduc Nomin 16.3 O Capacit Nom. C 29 pF/f Inducta Nomin 0.067 µ mpeda Nomin	ctor DCR nal Conduct hm/1000ft tance Capacitance ft unce nal Inductan µH/ft unce	or DCR N 1 conduct	tics ominal Conduc 5.3 Ohm/1000ft or to Shield	tor DCR Con	ductor Resistance				r DCR
Electr Conduc Nomin 16.3 O Capaciti Nom. C 29 pF/f nducta Nomin 0.067 µ mpeda Nomin	ctor DCR nal Conduct hm/1000ft tance Capacitance ft unce nal Inductan µH/ft unce	or DCR N 1 conduct	tics ominal Conduc 5.3 Ohm/1000ft or to Shield	tor DCR Con	ductor Resistance				r DCR
Electr Conduct Nomin 16.3 O Capacit Nom. C 29 pF/f nducta Nomin 0.067 µ mpeda Nomin 50 Ohr	ctor DCR nal Conduct hm/1000ft tance Capacitance ft unce nal Inductan µH/ft unce	or DCR N 1 ce ristic Imp	tics ominal Conduc 6.3 Ohm/1000ft or to Shield	tor DCR Con	ductor Resistance				r DCR
Electr Conduct Nomin 16.3 O Capacit Nom. C 29 pF/f nducta Nomin 0.067 µ Nomin 50 Ohr	ctor DCR nal Conduct hm/1000ft tance Capacitance ft nal Inductan µH/ft nal Characte m requency (N	or DCR N 1 ce ristic Imp ominal/Ty	tics ominal Conduc 6.3 Ohm/1000ft or to Shield	tor DCR Con	ductor Resistance				r DCR

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

Nomin	al Delay	Nominal Velocity of Propagation (VP) [%]
1.46 ns	s/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

Plenum (Y/N):	Yes

### **Related Part Numbers**

#### Variants

Item #	Color	Put-Up Type	Length	UPC		
84303 001500 I	Brown	Reel	500 ft	612825207009		
84303 0011000 I	Brown	Reel	1,000 ft	612825206996		
Footnote:				C - CRATE REEL PUT-UP., E - MAY CONTAIN MORE THAN 1 PIECE. MINIMUM LENGTH OF ANY ONE PIECE IS 2		
History				C-CRATE		

Update and Revision:	Revision Number: 0.360 Revision Date: 11-09-2022

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