

SCE1811-0303 **DATA SHEET**

Low Loss TNC Male to TNC Male Cable LL142 Coax and RoHS with LF Solder

Fairview High performance test cables boast 83% phase velocity and offer excellent low loss performance up to 18 GHz. The SCE1811-0303 cable assemblies use durable stainless steel connectors and an FEP jacket. The connector/cable interface has double heat-shrink booting which provides added strain relief while increasing the durability of the cable assembly. The low attenuation per foot in a 0.195 inch diameter cable creates a cable that has good flexibility while offering industry leading loss characteristics. All SCE1811-0303 cable assemblies are 100% RF tested to ensure the VSWR and insertion loss specifications meet or exceed Fairview's published electrical specifications.

Electrical Specifications

Description	Min	Т	ур	Max	U	Inits
Frequency Range	DC			18		GHz
VSWR				1.35:1		
Velocity of Propagation		8	33			%
RF Shielding	95					dB
Capacitance		25 [8	32.02]		pF/f	t [pF/m]

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	4.5	9	18	GHz
Insertion Loss (Max.)	0.1	0.14	0.2	0.29	0.4	dB/ft
	[0.33]	[0.46]	[0.66]	[0.95]	[1.31]	[dB/m]
Insertion Loss (Typ.)	0.07	0.1	0.16	0.23	0.33	dB/ft
	[0.23]	[0.33]	[0.52]	[0.75]	[1.08]	[dB/m]

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.05dB x v Frequency (GHz) per connector.

Mechanical Specifications

Cable Assembly

Diameter 0.625 in [15.88 mm] Weight 0.12 lbs [54.43 g]

Cable

Cable Type Impedance Inner Conductor Type Inner Conductor Material and Plating Dielectric Type Number of Shields Shield Layer 1 Shield Layer 2 Shield Layer 3 Jacket Material Jacket Diameter 0.195 in [4.95 mm]

LL142 50 Ohms Solid Copper, Silver PTFE

Silver Plated Copper Tape Aluminum Polyester Silver Plated Copper Wire FEP, Green

Configuration:

- TNC Male
- TNC Male
- LL142

Features:

- 83% Velocity of Propagation
- Shielding effectiveness >95 dB
- Maximum VSWR is < 1.35:1 to 18 GHz
- Minimum Bend Radius of 1 inch
- · Operating Temperature range of -55 to +125°C
- RoHS and REACH Compliant
- 100% RF Tested
- · Custom lengths available

Applications:

- · Long Run coaxial cable applications
- Antenna testing
- Low loss system cables

Fairview Microwave 1130 Junction Dr. #100 Allen, TX 75013

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Repeated Minimum Bend Radius 1 in [25.4 mm]

Connectors

Description	Connector 1	Connector 2		
Туре	TNC Male	TNC Male		
Polarity	Standard	Standard		
Specification	MIL-STD-348	MIL-STD-348, Figure 313-3		
Impedance	50 Ohms	50 Ohms		
Contact Material & Plating	Beryllium Copper, Go	old Beryllium Copper, Gold		
Contact Plating Spec.	ASTM-B488, 50µ In. I	Min ASTM-B488, 50µ In. Min		
Dielectric Type	PEI	PEI		
Coupling Nut Material & Plat	ing Passivated Stainless S	teel Passivated Stainless Steel		
Coupling Nut Plating Spec.	SAE-AMS-2701	SAE-AMS-2701		
Hex Size	9/16 Inch	9/16 Inch		
Body Material & Plating	Passivated Stainless S	teel Passivated Stainless Steel		
Body Plating Spec.	SAE-AMS-2701	SAE-AMS-2701		

Environmental Specifications

Temperature

Operating Range

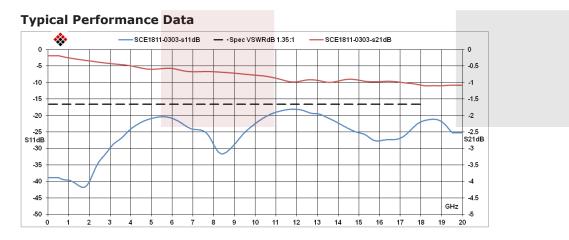
-55 to +125 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

• Values at 25°C, sea level.





How to Order

Part Number Configuration:	SCE1811 -	· xx	uu	
				cm = Centimeters <blank> = Inches</blank>
				——— Length

Example: SCE1811-12 = 12 inches long cable SCE1811-100cm = 100 cm long cable

Low Loss TNC Male to TNC Male Cable LL142 Coax and RoHS with LF Solder from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

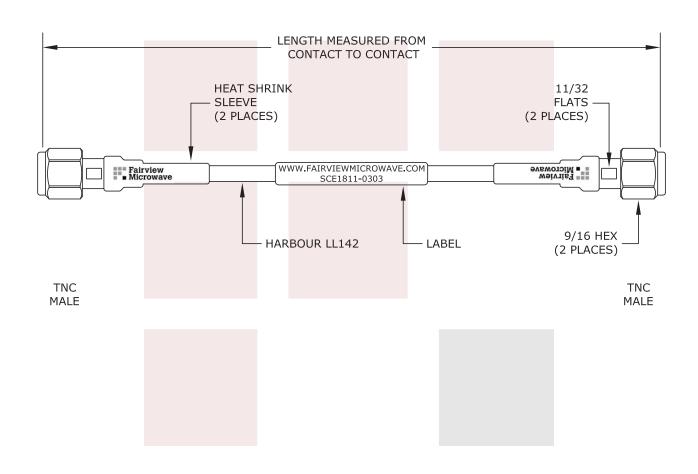
Click the following link to obtain additional part information: Low Loss TNC Male to TNC Male Cable LL142 Coax and RoHS with LF Solder SCE1811-0303

URL: https://www.fairviewmicrowave.com/low-loss-tnc-male-tnc-male-cable-II142-coax-sce1811-0303-p.aspx

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.

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NOTE: LABEL FOR CABLE LENGTHS 48" OR SHORTER TO BE CENTERED. 48" OR LONGER WILL BE 12" AWAY FROM CONNECTOR.

FAIRVIEW MICROWAVE INC. ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM	NOTES: 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL. 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME. 3. DIMENSIONS ARE IN INCHES [mm].						
Low Loss TNC Male to TNC Male Cable LL142 Coax	DWG NO SCE1811-0303				CAGE CODE 3FKR5		
and RoHS with LF Solder	CAD FILE 072716	SHEET	SCALE	≣ N/A	SIZE A	2233	