

SCE18060303 DATA SHEET

Low Loss Test TNC Male to TNC Male Cable LL335i Coax

The TNC male to TNC male cable using LL335i coax, part number SCE18060303, from Fairview Microwave is in-stock and ships same day. This Fairview TNC to TNC cable assembly has a male to male gender configuration with 50 ohm flexible LL335i coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The SCE18060303 TNC male to TNC male cable assembly operates to 18 GHz. The double shielding of this Fairview cable assembly provides excellent shielding effectiveness of better than 95 dB. The SCE18060303 high performance test cable's 0.3 inch diameter and 83% phase velocity offer very low loss performance up to 18 GHz. The durable stainless steel connectors and FEP jacket provide a cost effective design ideal for test environments where a rugged cable assembly is required. The series is offered with Type N, TNC, and SMA connectors all rated to 18 GHz. A heavy duty boot provides improved strain relief and adds to the durability of the cable assemblies. These cable assemblies are built using a double shielded flexible cable, providing excellent shielding effectiveness of greater than 95 dB. All SCE18060303 cable assemblies are 100% continuity and RF tested to published specifications. Custom lengths are built to order and shipped same day.

Custom versions of most RF cable assemblies can be built and shipped same day. Custom cable assembly lengths can be obtained by specifying the desired length on the web site at time of order or by contacting a sales representative. Other RF cable assembly value added services including connector orientation or clocking, heat shrink booting and labeling are also available. RF testing can also be performed to document the electrical performance of your cable assembly.

Electrical Specifications

Description	Min	Тур	Max	Units
Frequency Range	DC		18	GHz
VSWR			1.35:1	
Velocity of Propagation		83		%
RF Shielding	95			dB
Capacitance		25 [82.02]		pF/ft [pF/m]

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	4.5	9	18	GHz
Insertion Loss (Max.)	0.38	0.44	0.56	0.74	0.98	dB/ft
	1.25	1.44	1.84	2.43	3.22	dB/m
Insertion Loss (Typ.)	0.05	0.07	0.1	0.15	0.22	dB/ft
Power Handling (Max.)	0.16 1,800	0.23 1,200	0.33 900	0.49 550	0.72 400	dB/m W

Electrical Specification Notes:

Power handling values are calculated based on Cable properties. Power handling will vary based on the actual VSWR of the cable assembly. Insertion Loss does not include the loss of the connectors, insertion loss is estimated as .1dB per connector.



Configuration:

- TNC Male
- TNC Male
- LL335i

Features:

- Max Frequency 18 GHz
- Shielding Effectivity > 95 dB
- 83% Phase Velocity
- Double Shielded
- FEP Jacket
- 83% Velocity of Propagation
- Shielding effectiveness 95 dB
- Maximum VSWR is 1.35:1 to 18 GHz
- Minimum Bend Radius of 1.5 inches
- Operating Temperature range of -55 to +125 °C
- Same day shipment of custom lengths
- 100% Continuity and RF tested

Applications:

- General Purpose
- Test & Measurement
- Laboratory Use
- General Purpose
- Test & Measurement
- Laboratory Use

Fairview Microwave 301 Leora Ln., Suite 100 Lewisville, TX 75056 Tel: 1-800-715-4396 / (972) 649-6678 Fax: (972) 649-6689

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Mechanical Specifications

Cable Assembly

Length* 0 in [0 mm]

Weight 0.232 lbs [105.23 g]

Cable

Cable Type LL335i
Impedance 50 Ohms
Inner Conductor Type Solid
Inner Conductor Material and Plating Conner Silve

Inner Conductor Material and Plating Copper, Silver Dielectric Type PTFE

Number of Shields 2

Shield Layer 1 Silver Plated Copper Tape
Shield Layer 2 Aluminum Polyester
Shield Layer 3 Silver Plated Copper Wire

Outer Conductor Material and Plating Copper, Silver FEP, Green

Jacket Diameter 0.3 in [7.62 mm]

Repeated Minimum Bend Radius 1.5 in [38.1 mm]

Connectors

Description	Connect	or 1	Connector				
Туре	TNC Ma	ıle	TNC Male				
Specification	MIL-STD-	348	MIL-STD-348				
Impedance	50 Ohn	ns	50 Ohm	S			
Contact Material & Plating	Beryllium Cop	per, Gold	Beryllium Copper, Gold				
Contact Plating Spec.	ASTM-B488	ASTM-B488 50μ In.		0μ In.			
Dielectric Type	PTFE	PTFE		PTFE			
Body Material & Plating	Passivated Stair	assivated Stainless Steel		ess Steel			
Body Plating Spec.	SAE-AMS-	2701	SAE-AMS-2	701			
Coupling Nut Material & Pla	ting Passivated Stair	Passivated Stainless Steel		Passivated Stainless Steel			
Coupling Nut Plating Spec.	SAE-AMS-	2701	SAE-AMS-2	701			
Hex Size	9/16 In	ch	9/16 Inc	h			
Torque	14 in-lbs 1.	58 Nm	14 in-lbs 1.5	8 Nm			

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.

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How to Order

Part Number Configuration:	SCE18060303	- xx	uu	
				cm = Centimeters <blank> = Inches</blank>
				Length

Example: SCE18060303-12 = 12 inches long cable

SCE18060303-100cm = 100 cm long cable

Low Loss Test TNC Male to TNC Male Cable LL335i Coax from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave 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 Test TNC Male to TNC Male Cable LL335i Coax SCE18060303

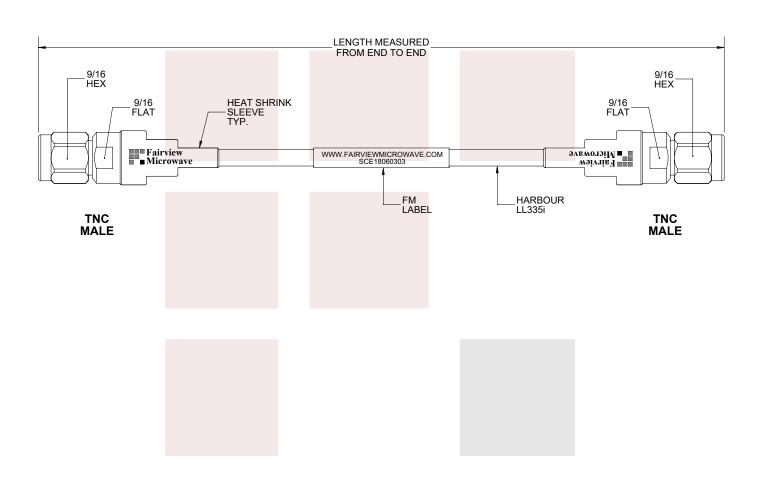
URL: https://www.fairviewmicrowave.com/low-loss-test-tnc-male-to-tnc-male-cable-II335i-coax-sce18060303-p.aspx

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STANDARD TOLERANCES

.X ±0.2 .XX ±0.01 .XXX ±0.005

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

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 Test TNC Male to TNC Male Cable LL335i	DWG NO SCE18060303				CAGE CODE 3FKR5		
Coax	CAD FILE 071717	SHEET 1 OF 1	SCAL	E N/A	SIZE A	9999	