

**Low Loss Test TNC Male to TNC Male Cable LL335i
 Coax and RoHS**

The SCE1806-0303 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 SCE1806-0303 cable assemblies are 100% continuity and RF tested to published specifications. Custom lengths are built to order and shipped same day.



Configuration:

- TNC Male
- TNC Male
- LL335i

Electrical Specifications

Description	Min	Typ	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.)	0.06 [0.2]	0.08 [0.26]	0.12 [0.39]	0.18 [0.59]	0.26 [0.85]	dB/ft [dB/m]
Insertion Loss (Typ.)	0.05 [0.16]	0.07 [0.23]	0.1 [0.33]	0.15 [0.49]	0.22 [0.72]	dB/ft [dB/m]
Power Handling (Max.)	2,900	1,350	900	650	400	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.

Mechanical Specifications

Cable Assembly

Diameter 0.625 in [15.88 mm]

Cable

Cable Type LL335i
 Impedance 50 Ohms
 Inner Conductor Type Solid
 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

Features:

- 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
- ROHS Compliant
- Same day shipment of custom lengths
- 100% Continuity and RF tested

Applications:

- General Purpose
- Test & Measurement
- Laboratory Use

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Outer Conductor Material and Plating Copper, Silver
 Jacket Material FEP, Green
 Jacket Diameter 0.3 in [7.62 mm]

 Repeated Minimum Bend Radius 1.5 in [38.1 mm]

Connectors

Description	Connector 1	Connector 2
Type	TNC Male	TNC Male
Specification	MIL-STD-348	MIL-STD-348
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Contact Plating Spec.	ASTM-B488 50µ In.	ASTM-B488 50µ In.
Dielectric Type	PTFE	PTFE
Outer Cond Material & Plating	Passivated Stainless Steel	Passivated Stainless Steel
Outer Cond Plating Spec.	SAE-AMS-2701	SAE-AMS-2701
Body Material & Plating	Passivated Stainless Steel	Passivated Stainless Steel
Body Plating Spec.	SAE-AMS-2701	SAE-AMS-2701
Coupling Nut Material & Plating	Passivated Stainless Steel	Passivated Stainless Steel
Coupling Nut Plating Spec.	SAE-AMS-2701	SAE-AMS-2701
Hex Size	9/16 Inch	9/16 Inch
Torque	14 in-lbs [1.58 Nm]	14 in-lbs [1.58 Nm]

Mechanical Specification Notes:

*All cable assemblies have a length tolerance of 1.5% or ± 3/8", whichever is greater.

Environmental Specifications

Temperature

Operating Range -55 to +125 deg C

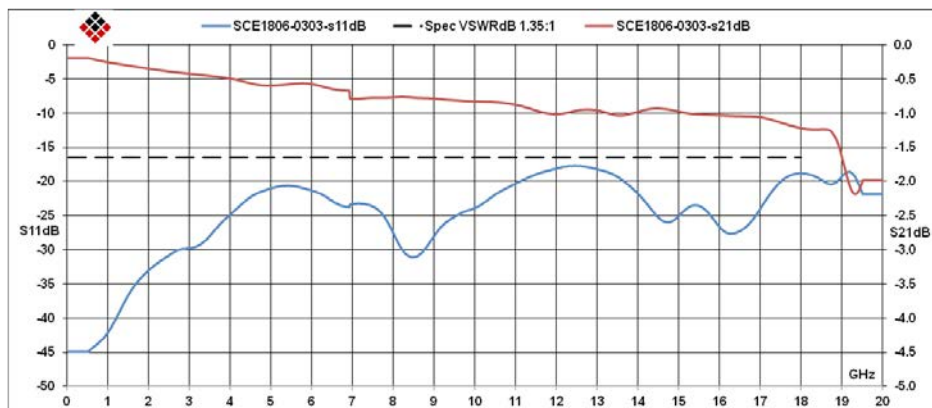
Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

- Values at 25°C, sea level.

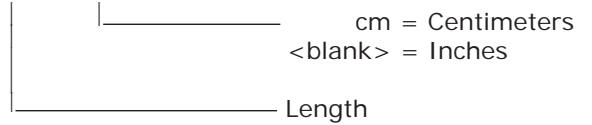
Typical Performance Data



How to Order

Part Number Configuration:

SCE1806 - xx uu



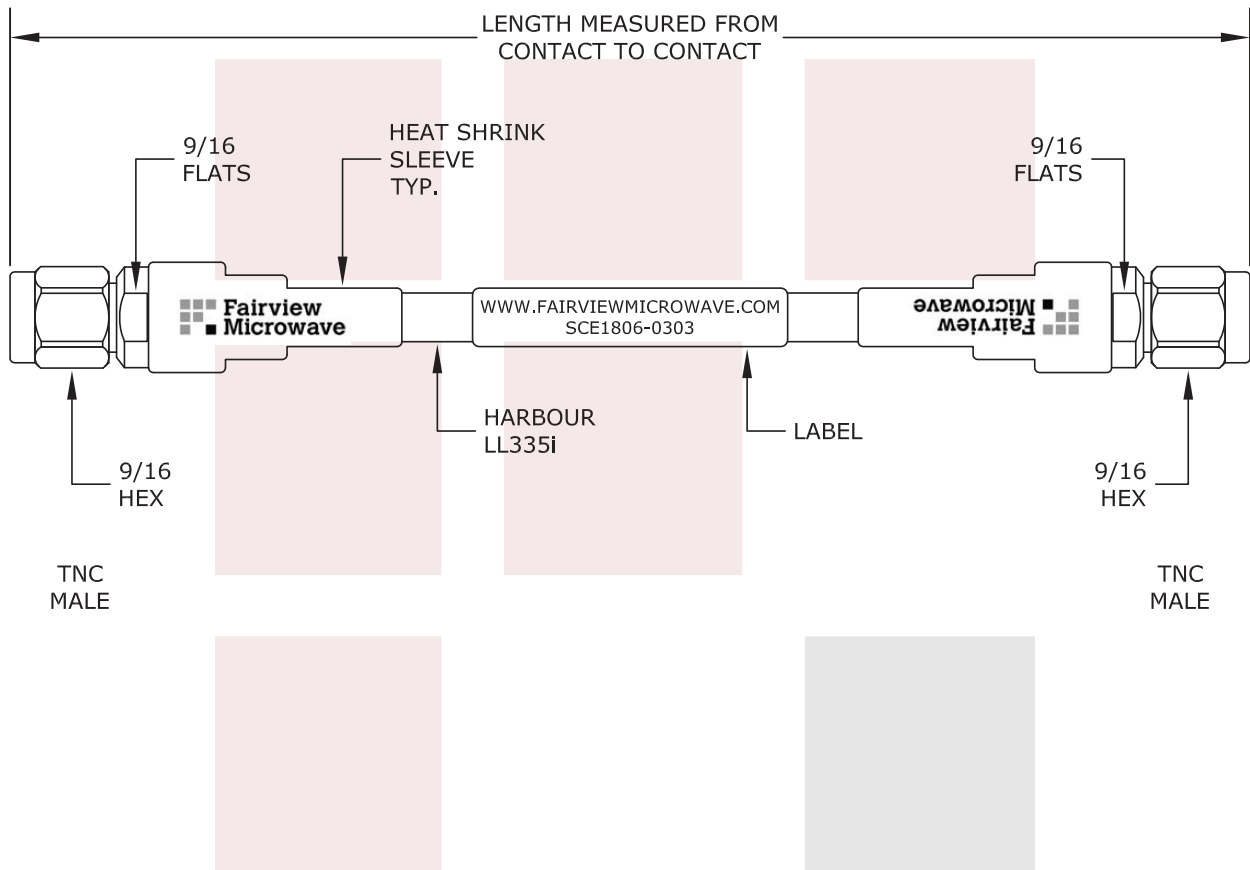
Example: SCE1806-12 = 12 inches long cable
SCE1806-100cm = 100 cm long cable

Low Loss Test TNC Male to TNC Male Cable LL335i Coax and RoHS 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 Test TNC Male to TNC Male Cable LL335i Coax and RoHS SCE1806-0303](#)

URL: <https://www.fairviewmicrowave.com/low-loss-test-tnc-male-tnc-male-cable-ll335i-coax-sce1806-0303-p.aspx>

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

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TITLE Low Loss Test TNC Male to TNC Male Cable LL335i Coax and RoHS		DWG NO SCE1806-0303		CAGE CODE 3FKR5	
CAD FILE	121616	SHEET		SCALE	N/A
		SIZE	A		2233