Fairview Microwave
an INFINITE brand

# SCE18060105 DATA SHEET

## Low Loss Test N Male to SMA Male Cable LL335i Coax

The type N male to SMA male cable using LL335i coax, part number SCE18060105, from Fairview Microwave is in-stock and ships same day. This Fairview type N to SMA 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 SCE18060105 type N male to SMA male cable assembly operates to 18 GHz. The triple shielding of this Fairview cable assembly provides excellent shielding effectiveness of better than 95 dB. The SCE18060105 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 reduced 0.49 inch diameter SMA body allows for attachment to closely spaced connection points found on multiport components and interface panels. 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 SCE18060105 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 | 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.) | 0.38 | 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 |
| | 0.16 | 0.23 | 0.33 | 0.49 | 0.72 | dB/m |
| Power Handling (Max.) | 1,800 | 1,200 | 900 | 550 | 400 | W |

Electrical Specification Notes:

### Configuration:

- N Male
- SMA Male
- LL335i

### Features:

- Max Frequency 18 GHz
- Shielding Effectivity > 95 dB
- 83% Phase Velocity
- Triple Shielded
- FEP Jacket
- SMA Body diameter of 0.49 inches
- 83% Velocity of Propagation
- Shielding effectiveness > 95 B
- 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
www.fairviewmicrowave.com
sales@fairviewmicrowave.com

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

| | |
|---|---|
| Length* | 0 in [0 mm] |
| Weight | 0.23 lbs [104.33 g] |

### Cable

| | |
|---|---|
| Cable Type | LL335i |
| Impedance | 50 Ohms |
| Inner Conductor Type | Solid |
| Inner Conductor Material and Plating | Copper, Silver |
| Dielectric Type | PTFE |
| Number of Shields | 3 |
| 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 |
| 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 | N Male | SMA Male |
| Specification | | 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 |
| Body Material & Plating | Passivated Stainless Steel | Passivated Stainless Steel |
| Body Plating Spec. | SAE-AMS-2700 | SAE-AMS-2700 |
| Coupling Nut Material & Plating | Passivated Stainless Steel | Passivated Stainless Steel |
| Coupling Nut Plating Spec. | SAE-AMS-2700 | SAE-AMS-2700 |
| Hex Size | 3/4 Inch | 5/16 Inch |
| Torque | 14 in-lbs 1.58 Nm | 8 in-lbs 0.9 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.

## How to Order

Part Number Configuration: **SCE18060105 - xx uu**

- uu: cm = Centimeters; <blank> = Inches
- xx: Length

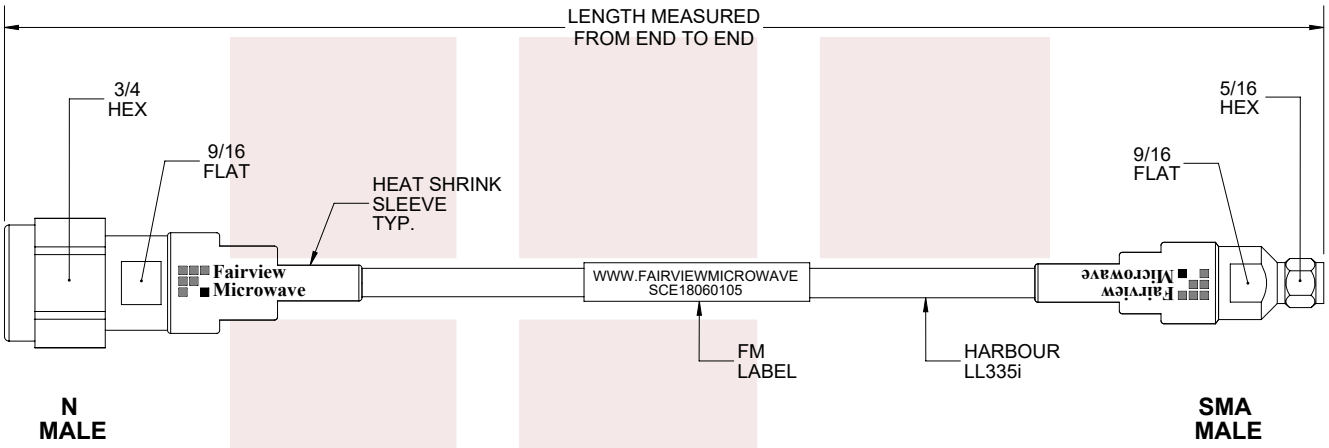
Example: SCE18060105-12 = 12 inches long cable
SCE18060105-100cm = 100 cm long cable

Low Loss Test N Male to SMA 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 N Male to SMA Male Cable LL335i Coax SCE18060105

URL: https://www.fairviewmicrowave.com/low-loss-test-n-male-sma-male-cable-ll335i-coax-sce18060105-p.aspx

*




| STANDARD TOLERANCES | |
|---|---|
| .X | ±0.2 |
| .XX | ±0.01 |
| .XXX | ±0.005 |

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

| | | | | | |
|---|---|---|---|---|---|
| FAIRVIEW MICROWAVE INC.<br>ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM | | | | NOTES:<br>1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.<br>2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.<br>3. DIMENSIONS ARE IN INCHES [mm]. | |
| TITLE<br>Low Loss Test N Male to SMA Male Cable LL335i Coax | | DWG NO<br>SCE18060105 | | CAGE CODE<br>3FKR5 | |
| CAD FILE 071717 | SHEET 1 OF 1 | SCALE N/A | SIZE A | 9999 | |