

Low Loss Test N Male to N Male Cable LL335i Coax

The SCE18060505 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 SCE18060505 cable assemblies are 100% continuity and RF tested to published specifications. Custom lengths are built to order and shipped same day.

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.) | 0.059 | 0.079 | 0.119 | 0.179 | 0.259 | dB/ft |
| | 0.19 | 0.26 | 0.39 | 0.59 | 0.85 | 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:

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 0.287 lbs [130.18 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 2
 Shield Layer 1 Silver Plated Copper Tape



Configuration:

- N Male
- N Male
- LL335i

Features:

- Max Frequency 18 GHz
- Shielding Effectivity > 95 dB
- 83% Phase Velocity
- Double Shielded
- FEP Jacket
- 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

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| | |
|--------------------------------------|---------------------------|
| 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 | N Male |
| 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 | 3/4 Inch |
| Torque | 14 in-lbs 1.58 Nm | 14 in-lbs 1.58 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: **SCE18060505 - xx uu**

cm = Centimeters
<blank> = Inches

Length

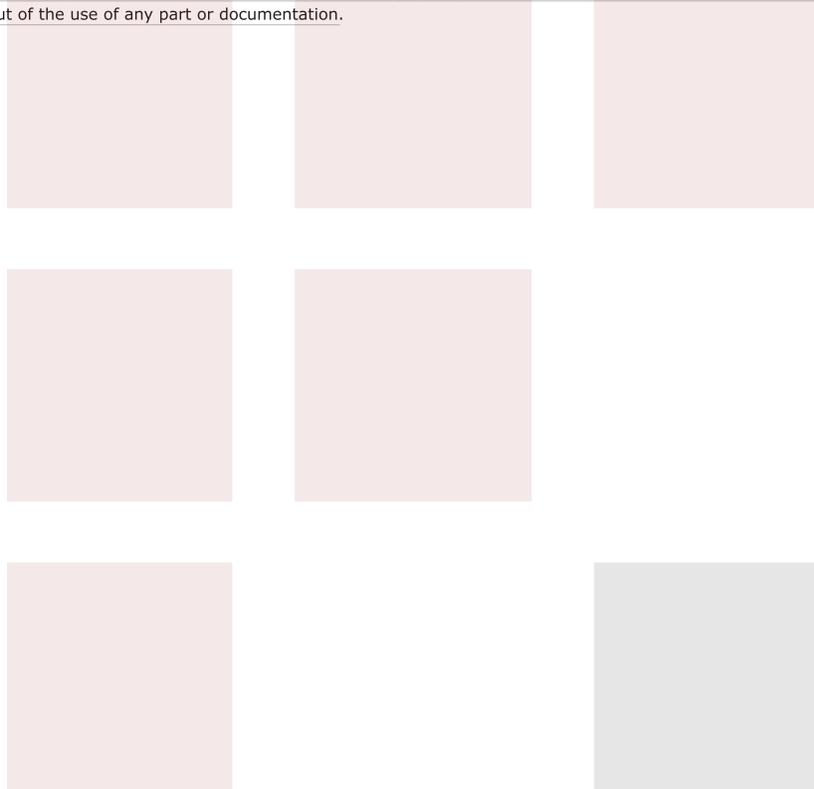
Example: SCE18060505-12 = 12 inches long cable
SCE18060505-100cm = 100 cm long cable

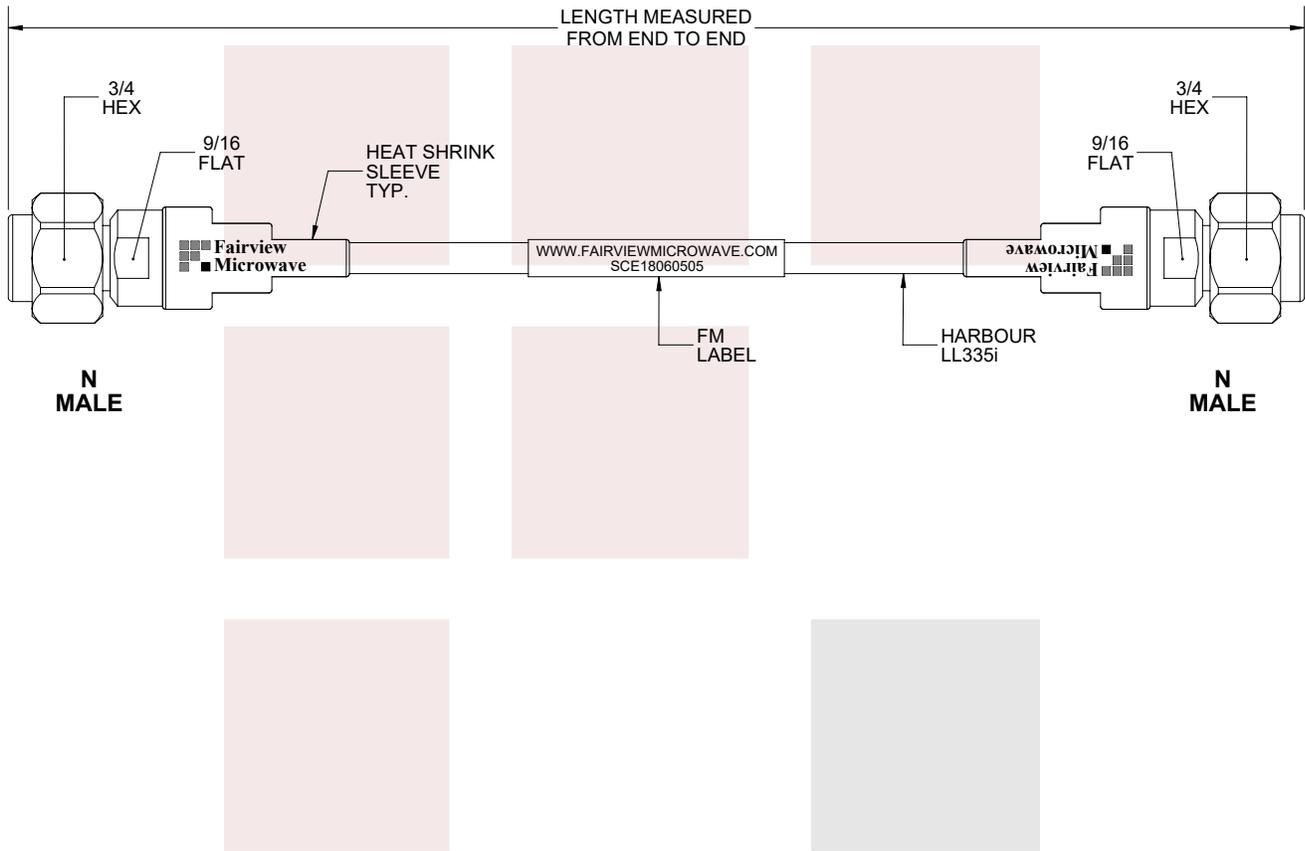
Low Loss Test N Male to N Male Cable LL335i Coax from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [Low Loss Test N Male to N Male Cable LL335i Coax SCE18060505](#)

URL: <https://www.fairviewmicrowave.com/low-loss-test-n-male-n-male-cable-ll335i-coax-sce18060505-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]. | | | |
| TITLE Low Loss Test N Male to N Male Cable LL335i Coax | | DWG NO SCE18060505 | | CAGE CODE 3FKR5 | |
| CAD FILE | 071717 | SHEET | 1 OF 1 | SCALE | N/A |
| | | SIZE | A | | 9999 |