

Low Loss Test TNC Male to TNC Male Cable LL335i Coax in 150 CM

The TNC male to TNC male 150 cm cable using LL335i coax, part number SCE18060303-150CM, 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 SCE18060303-150CM 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 | 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.) | 0.49 | 0.6 | 0.8 | 1.08 | 1.47 | dB |
| Insertion Loss (Typ.) | 0.45 | 0.54 | 0.69 | 0.94 | 1.28 | dB |
| Power Handling (Max.) | 1,800 | 1,200 | 900 | 550 | 400 | W |

Mechanical Specifications

Cable Assembly

Length* 59.055 in [150 cm]

Cable

Cable Type LL335i
 Impedance 50 Ohms



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

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| | |
|--------------------------------------|---------------------------|
| 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 |
| 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 |
| 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 |

Environmental Specifications

Temperature

Operating Range -55 to +125 deg C

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

Plotted and Other Data

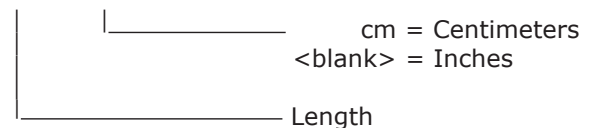
Notes:

- Values at 25°C, sea level.

How to Order

Part Number Configuration:

SCE18060303 - xx uu



Example: SCE18060303-12 = 12 inches long cable
SCE18060303-100cm = 100 cm long cable

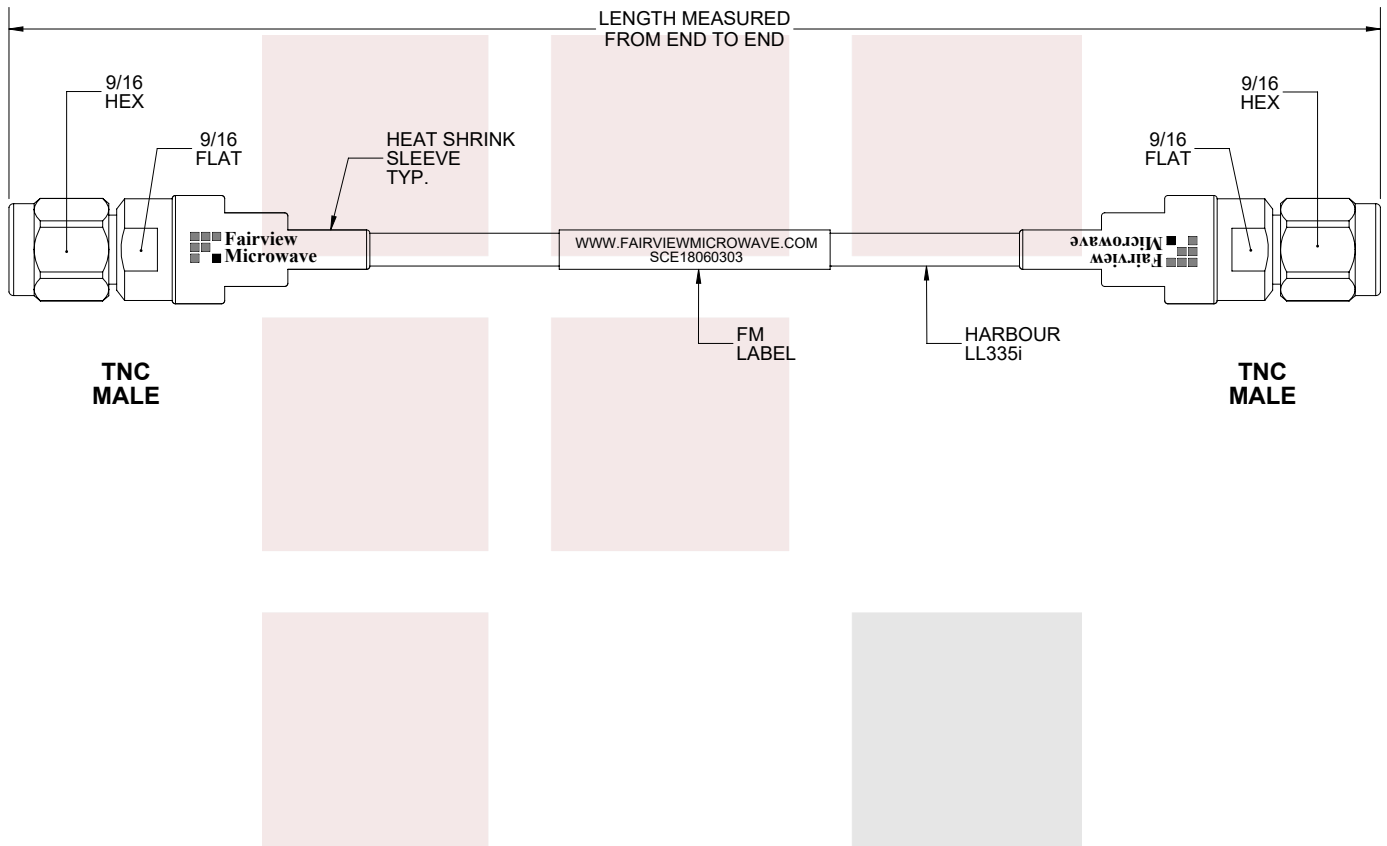
Low Loss Test TNC Male to TNC Male Cable LL335i Coax in 150 CM from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [Low Loss Test TNC Male to TNC Male Cable LL335i Coax in 150 CM SCE18060303-150CM](https://www.fairviewmicrowave.com/low-loss-test-tnc-male-to-tnc-male-cable-ll335i-coax-in-150-cm-sce18060303-150cm)

URL: <https://www.fairviewmicrowave.com/low-loss-test-tnc-male-tnc-male-cable-ll335i-coax-sce18060303-150cm-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 TNC Male to TNC Male Cable LL335i Coax in 150 CM | | DWG NO SCE18060303 | | CAGE CODE 3FKR5 | |
| CAD FILE | 071717 | SHEET | 1 OF 1 | SCALE | N/A |
| | | | | SIZE | A 9999 |