

## Low Loss Test N Female to TNC Male Cable LL335i Coax

The type N female to TNC male cable using LL335i coax, part number FMCA1292, from Fairview Microwave is in-stock and ships same day. This Fairview type N to TNC cable assembly has a female 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 FMCA1292 type N female to TNC 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 FMCA1292 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 FMCA1292 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			1.4:1	
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	0.08	0.12	0.18	0.26	dB/ft
	0.2	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	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.



### Configuration:

- N Female
- TNC Male
- LL335i

### Features:

- Max Frequency 18 GHz
- Shielding Effectivity > 95 dB
- 83% Phase Velocity
- Triple Shielded
- FEP Jacket
- 83% Velocity of Propagation
- Shielding effectiveness 95 Db
- Maximum VSWR is 1.40:1 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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## Mechanical Specifications

### Cable Assembly

#### 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
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 Female	TNC Male
Specification	MIL-STD-348	MIL-STD-348
Impedance	50 Ohms	50 Ohms
Mating Cycles		500
Contact Material & Plating	Beryllium Copper, Gold	
Contact Plating Spec.	ASTM-B488 50µ in. minimum	50 µin minimum
Dielectric Type	PEI	PTFE
Outer Cond Material & Plating	Passivated Stainless Steel	
Outer Cond Plating Spec.	SAE-AMS-2700	
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
Coupling Nut Plating Spec.		SAE-AMS-2700
Hex Size		9/16 inch
Torque		19 in-lbs 2.15 Nm

## Environmental Specifications

### Temperature

Operating Range	-55 to +165 deg C
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## Compliance Certifications (see [product page](#) for current document)

## Plotted and Other Data

Notes:

**How to Order**

Part Number Configuration:

**FMCA1292 - xx uu**



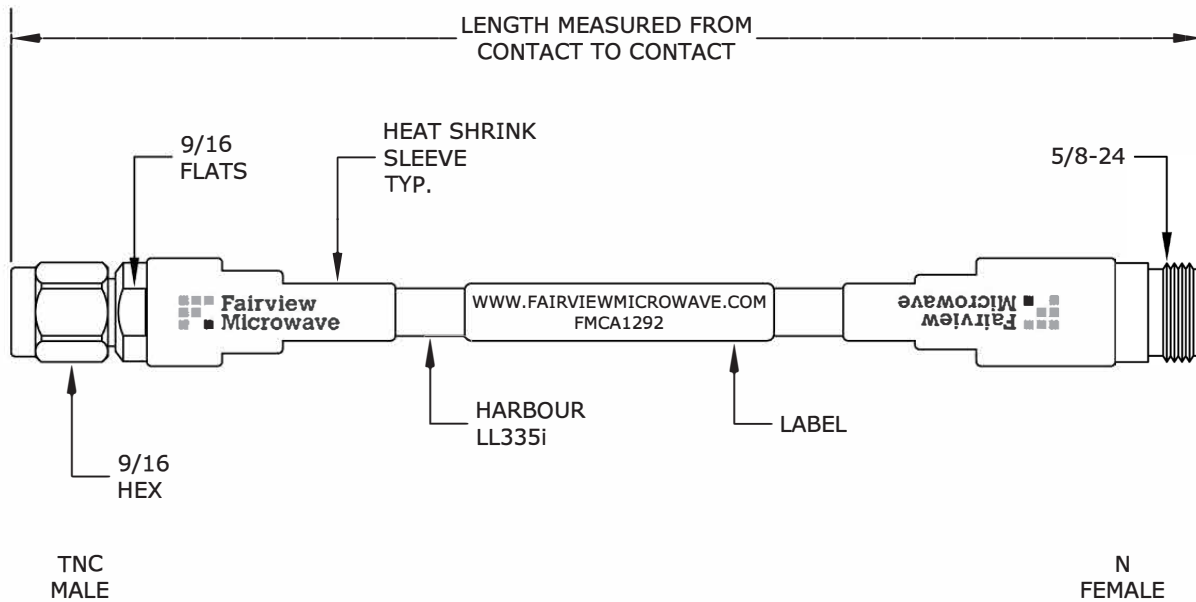
Example: FMCA1292-12 = 12 inches long cable  
 FMCA1292-100cm = 100 cm long cable

Low Loss Test N Female 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 N Female to TNC Male Cable LL335i Coax FMCA1292](#)

URL: <https://www.fairviewmicrowave.com/low-loss-test-n-female-tnc-male-cable-ll335i-coax-fmca1292-p.aspx>

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.



**NOTE:**  
LABEL FOR CABLE LENGTHS 48" OR SHORTER TO BE CENTERED . LONGER THAN 48" WILL BE 6" AWAY FROM CONNECTOR .

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TITLE Low Loss Test N Female to TNC Male Cable LL335i Coax		DWG NO <b>FMCA1292</b>		CAGE CODE <b>3FKR5</b>	
CAD FILE	122016	SHEET	SCALE	N/A	SIZE A 2233