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Temperature Conditioned Low Loss RA SMA Male to RA TNC Male Cable LL335i Coax in 36 Inch

Temperature conditioned low loss RA SMA Male to RA TNC Male cable assemblies with RF test reports from Fairview Microwave are part of our full line of reliable RF components available to ship same day. These COTS (commercial-off-the-shelf) cable assemblies using LL335i triple shielded coax with expanded PTFE dielectric have traceable processes and materials that are recorded and provided in the included test report. The temperature pre-conditioned coaxial cable and captivated stainless steel RF connectors are assembled with J-STD-001 soldering processes and meet WHMA-A-620 workmanship criteria. The carefully selected materials, temperature conditioning, assembly processes and test sequence ensure a dependable cable assembly for high-reliability applications with wide temperature excursions and where the cost of failure is high. Each serialized SMA to TNC low loss cable assembly is traceable to its component lots and test data ships with every cable.

This low loss temperature tolerant hi-rel cable assembly using LL335i expanded PTFE cable datasheet PDF contains specifications, CAD drawing and dimensions that are shown below. Fairview Microwave offers these high-reliability RF cable assemblies with test data and many other RF, microwave and millimeter wave components which allow designers to configure and customize their signal systems however they like. Whether the need is to provide reliable interconnects over wide temperature extremes or have supporting test reports, Fairview Microwave has the right cable assemblies for the job. Fairview can also expertly build your custom RF cable assemblies for you and ship same day.

Referenced Specifications

IPC/WHMA-A-620	Requirements and Acceptance for Cable and Wire
MIL-STD-348	Harness Assemblies Radio Frequency Connector Interfaces for MIL-
	DTL-3643, MIL-DTL-3650, MIL-DTL-3655, MIL- DTL-25516, MIL-PRF-31031, MIL-PRF-39012, MIL-PRF-49142, MIL-PRF
IPC J-STD-001	Requirements for Soldered Electrical and Electronic Assemblies
IPC J-STD-006	Requirements for Electronic Grade Solder Alloys and Fluxed and Non-Fluxed Solid Solders for Electronic Soldering Applications
SAE AS5942	Marking of Electrical Insulating Materials
SAE AS23053	Insulation Sleeving, Electrical, Heat Shrinkable, General Specifications For

Material Specifications

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Component	Specification
Cable	LL335i per LL335i datasheet
Connector 1	FMCN1184 per MIL-STD-348
Connector 2	FMCN1526 per MIL-STD-348
Heat Shrink 1	SUMITUBE W3B2(4X) 24/6 per SAE AS23053 as applicable
Heat Shrink 2	SUMITUBE W3B2(4X) 24/6 per SAE AS23053 as applicable
Heat Shrink 3	M23053/4-304-0 per SAE AS23053
Heat Shrink 4	M23053/4-304-0 per SAE AS23053
Solder	SN63 per J-STD-006



FMHR0234-36 DATA SHEET

Configuration:

- Connector 1: FMCN1184
 (SMA Male Right Angle)
- Connector 2: FMCN1526 (TNC Male Right Angle)
- Cable: LL335i

Features:

- Max Frequency 18 GHz
- 83% Phase Velocity
- Triple Shielded
- FEP Jacket
- Temperature Pre-Conditioned Cable
- J-STD Soldering
- Lot Traceability
- Captivated Stainless Steel Connectors
- Expanded PTFE dielectric
- Serialized Test Data & Report
- In-stock and ships same day

Applications:

- General Purpose
- Laboratory Use
- Extreme Temperatures
- Hi-Reliability
- Unmanned Systems
- COTS Solutions
- Avionics
- Electronic Countermeasures(ECM)

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Electrical Specifications

Description	Min	Тур	Max	Units
Frequency Range	DC		18	GHz
VSWR			1.44:1	
Velocity of Propagation		83		%
Capacitance	2	25 [82.02	2]	pF/ft [pF/m]

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	4.5	9	18	GHz
Insertion Loss (Max.)	0.56	0.62	0.74	0.89	1.13	dB

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax cable used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.2 dB per connector.

Mechanical Specifications

Cable Assembly				
Description	Min	Тур	Max	Units
Length*	36 [914.4]	36 [914.4]	37 [939.8]	in [mm]
Cable Outer Diameter	0.295	0.3	0.305	in
Weight			0.49 [222.26]	lbs [g]

Cable Characteristics

Component	Specification				
Cable Type	LL335i				
Impedance	50 Ohms				
Inner Conductor Type	Solid				
Inner Conductor Mat. & Plat.	Copper, Silver				
Dielectric Type	Expanded PTFE Tape				
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				





Connector Characteristics

Description	Connector 1	Connector 2	
Туре	SMA Male Right Angle	TNC Male Right Angle	
Specification	MIL-STD-348	MIL-STD-348	
Impedance	50 Ohms	50 Ohms	
Contact Mat. & Plat.	Beryllium Copper, Gold over Nickel	Beryllium Copper, Gold over Nickel	
Contact Plating Spec.	50 µin minimum	50 µin minimum	
Dielectric Type	PTFE	PTFE	
Body Mat. & Plat.	Passivated Stainless Steel	Passivated Stainless Steel	
Body Plating Spec.	SAE-AMS-2700	SAE-AMS-2700	
Coupling Nut Mat. & Plat.	Passivated Stainless Steel	Passivated Stainless Steel	
Coupling Nut Plating Spe <mark>c.</mark>	SAE-AMS-2700	SAE-AMS-2700	
Hex Size	5/16 inch	9/16 inch	
Seal Gasket Material	Silicone Rubber	Silicone Rubber	
Contact Gage Spec.	0.000 in min	0.210 to 0.230 in	
Insulator Gage Spec.	0.000 in min	0.208 to 0.228 in	

Environmental Specifications

Description		Sp	ecification	
Temperature Operating Ran	ige	-55	to +125 deg C	

Compliance Certifications (see product page for current document)

Process Specifications

pecification		
cycles, -55 °C to +12	5°C, 20 minute dwells	
accordance with J-ST	D-001, class 3	
nall meet the adherend	e requirements of SAE AS5942	
hall be in accordance w	ith IPC/WHMA-A-620, class 3	
	accordance with J-ST nall meet the adherence	

Tests and Inspections

Test	Sampling
Connector Gaging (pin and insulator position)	100%
Insertion Loss	100%
VSWR	100%
Dielectric Withstanding Voltage (DWV)	100%
Visual - workmanship, configuration and marking	100%
Length	C=0, 1.5 AQL
Mass	C=0, 1.5 AQL



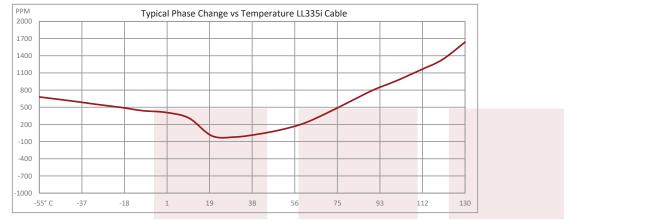


Plotted and Other Data

Notes:

• Values at 25°C, sea level.

Typical Performance Data



How to Order

Part Number Configurat	ion:	FMHR0234 -	xx	uu	
					cm = Centimeters <blank> = Inches</blank>
			I	I	ength
	12 = 12 inches long ca 100cm = 100 cm long				

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Cable Assembly Length Tolerances:

Imperial	English	Me	tric
"L" ≤ 1 ft	+0.5 in / -0 in	"L" ≤ 0.3 m	+12.5 mm / -0 mm
1 ft < "L" ≤ 5 ft	+1 in / -0 in	0.3 m < "L" ≤ 1.5 m	+25 mm / -0 mm
5 ft < "L" ≤ 10 ft	+2 in / -0 in	1.5 m < "L" ≤ 3 m	+50 mm / -0 mm
10 ft < "L" ≤ 25 ft	+3 in / -0 in	3 m < "L" ≤ 7.5 m	+75 mm / -0 mm
25 ft < "L"	+2%"L" / -0%"L"	7.5 m < "L"	+2%"L" / -0%"L"

* Cable Length = "L"

Temperature Conditioned Low Loss RA SMA Male to RA TNC Male Cable LL335i Coax in 36 Inch 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: Temperature Conditioned Low Loss RA SMA Male to RA TNC Male Cable LL335i Coax in 36 Inch FMHR0234-36

URL: https://www.fairviewmicrowave.com/temperature-conditioned-ra-sma-male-ra-tnc-male-cable-II335i-coax-fmhr0234-36-p.aspx

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