



Low Loss SMA Male to TNC Female Bulkhead Cable LL142 Coax with LF Solder

The SMA male to TNC female bulkhead cable using LL142 coax, part number FMCA1264, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to TNC cable assembly has a male to female gender configuration with 50 ohm flexible LL142 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA1264 SMA male to TNC female cable assembly operates to 18 GHz. Our RF cable assembly with TNC bulkhead interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications. The triple shielding of this Fairview cable assembly provides excellent shielding effectiveness of better than 95 dB. Fairview High performance test cables boast 83% phase velocity and offer excellent low loss performance up to 18 GHz. The FMCA1264 cable assemblies use durable stainless steel connectors and an FEP jacket. The connector/cable interface has double heat-shrink booting which provides added strain relief while increasing the durability of the cable assembly. The low attenuation per foot in a 0.195 inch diameter cable creates a cable that has good flexibility while offering industry leading loss characteristics. All FMCA1264 cable assemblies are 100% RF tested to ensure the VSWR and insertion loss specifications meet or exceed Fairview's published electrical specifications.

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	Тур	Max	Units	
Frequency Range	DC		18	GHz	
VSWR			1.4:1		
Return Loss			15.56	dB	
Insertion Loss			0.4	dB	
			1.31	dB	
Velocity of Propagation		83	%		
RF Shielding	95	5 dB		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.)	0.1	0.14	0.2	0.29	0.4	dB/ft
	0.33	0.46	0.66	0.95	1.31	dB/m
Insertion Loss (Typ.)	0.07	0.1	0.16	0.23	0.33	dB/ft
	0.23	0.33	0.52	0.75	1.08	dB/m



Configuration:

- SMA Male
- TNC Female Bulkhead
- LL142

Features:

- Max Frequency 18 GHz
- Shielding Effectivity > 95 dB
- 83% Phase Velocity
- Triple Shielded
- FEP Jacket
- 83% Velocity of Propagation (Vop)
- Shielding effectiveness >95 dB
- Maximum VSWR is < 1.40:1 to 18 GHz
- Minimum Bend Radius of 1 inch
- Operating Temperature range of -55 to +125°C
- 100% RF Tested
- Custom lengths available

Applications:

- General Purpose
- Laboratory Use
- Long Run coaxial cable applications
- Antenna testing
- Low loss system cables

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





Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as $0.05dB \times SQRT$ (Frequency GHz) per connector.

Mechanical Specifications

Cable Assembly

Length* 0 in [0 mm]

Cable

Cable TypeLL142Impedance50 OhmsInner Conductor TypeSolid

Inner Conductor Material and Plating Copper, Silver

Dielectric Type PTFE Number of Shields 3

Shield Layer 1
Shield Layer 2
Shield Layer 3
Silver Plated Copper Tape
Aluminum Polyester
Silver Plated Copper Wire

Jacket Material FEP, Green

Jacket Diameter 0.195 in [4.95 mm]

One Time Minimum Bend Radius 1 in [25.4 mm]

Connectors

Description	Connect	or 1	Connector 2			
Туре	SMA Ma	ale TNC Female				
Mount Method		Bulkhead				
Specification	MIL-STD-	348	MIL-STD-348			
Impedance	50 Ohr	ns	50 Ohms			
Contact Material & Plating	Beryllium Cop	per, Gold	Beryllium Copper, Gol	ld		
Contact Plating Spec.	ASTM-B488 50)μ In. Min A	STM-B488, 50µ In. Mini	mun		
Dielectric Type	PTFE		PEI			
Outer Cond Material & Plat	ing	Passivated Stainless Steel				
Outer Cond Plating Spec.			SAE-AMS-2700			
Body Material & Plating	Passivated Stair	nless Steel	Passivated Stainless St	eel		
Body Plating Spec.	SAE-AMS-	2700	SAE-AMS-2700			
Coupling Nut Material & Pla	ating Passivated Stair	nless Steel				
Coupling Nut Plating Spec.	SAE-AMS-	2700				
Hex Size	5/16 In	ch				
Torque	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.

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How to Order

Part Number Configuration:	FMCA1264	- xx	uu	
				cm = Centimeters <blank> = Inches</blank>
				Length

Example: FMCA1264-12 = 12 inches long cable FMCA1264-100cm = 100 cm long cable

Low Loss SMA Male to TNC Female Bulkhead Cable LL142 Coax with LF Solder 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 SMA Male to TNC Female Bulkhead Cable LL142 Coax with LF Solder FMCA1264

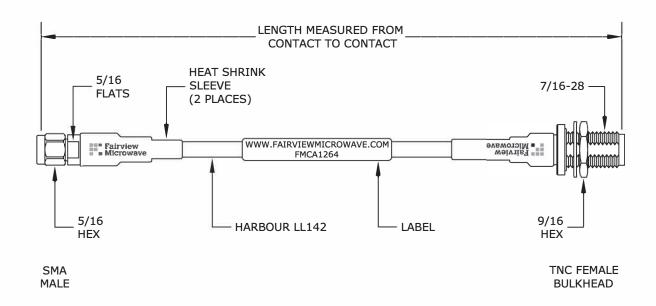
URL: https://www.fairviewmicrowave.com/low-loss-sma-male-tnc-female-cable-ll142-coax-fmca1264-p.aspx

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NOTE:

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

- 1	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	DWG NO FMCA1264				CAGE CODE 3FKR5		
Т	ow Loss SMA Male to TNC Female Bulkhead Cable L142 Coax with LF Solder	CAD FILE	072216	SHEET	SCAL	E N/A	SIZE A	2233