

FMCA2546 DATA SHEET

Fire Rated Low PIM N Male to N Female Cable SPF-250 Coax in 7 Inch Using Times Microwave Parts

The type N male to type N female 7 inch cable using SPF-250 coax, part number FMCA2546, from Fairview Microwave is in-stock and ships same day. This Fairview type N to type N cable assembly has a male to female gender configuration with 50 ohm corrugated SPF-250 coax. Fairview Microwave's corrugated RF cable assemblies are ideal for applications where durability and high power are needed. Our low PIM design offers excellent passive intermodulation performance with PIM levels better than -160 dBc. The FMCA2546 type N male to type N female cable assembly operates to 5.8 GHz.

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	Т	ур	Max	ι	Jnits	
Frequency Range	DC			5.8		GHz	
VSWR				1.4:1			
Velocity of Propagation		8	33			%	
Passive Intermodulation				-160		dBc	
Capacitance		24 [78.74]		pF/ft [pF/m]			
Inductance		0.054 [0.18]			uH/ft [uH/m]		

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	5.8	GHz
Insertion Loss (Typ.)	0.03	0.043	0.062	0.103	0.167	dB

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1*SQRT(FGHz) dB per connector.

Mechanical Specifications

Cable Assembly

Jacket Material

Length* 7 in [177.8 mm] Weight 0.359 lbs [162.84 g]

Cable

Cable Type SPF-250 **Impedance** 50 Ohms Inner Conductor Type Solid Inner Conductor Material and Plating Copper Clad Aluminum Dielectric Type Foam PF Number of Shields 1

Outer Conductor Material and Plating Copper FRPE, Black



Configuration:

- N Male
- N Female
- SPF-250

Features:

- Max Frequency 5.8 GHz
- Low PIM: -160 dBc Max
- 83% Phase Velocity
- FRPE Jacket
- 100% Tested with PIM Test Results Marked on Cable
- Lightweight and Extremely Flex-
- Low Loss with Excellent VSWR
- IP67 (when mated)
- Using Times Microwave Components

Applications:

- General Purpose
- Laboratory Use
- Low PIM Applications
- CMR Riser Rated Applications
- Distributed Antenna Systems (DAS)
- Multi-Carrier Communication Systems
- PIM Testing

Cable Diagram:

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





Jacket Diameter 0.303 in [7.7 mm]

One Time Minimum Bend Radius 1.25 in [31.75 mm] Bending Moment 0.5 lbs-ft [0.68 N-m]

Connectors

Description	Connector 1	Connector 2
Туре	N Male	N Female
Impedance	50 Ohms	50 Ohms
Mating Cycles		500
Contact Material & Plating	Phosphor Bronze, Silv	ver Brass, Silver
Contact Plating Spec.	196 µin	200 μin
Dielectric Type	PTFE	PTFE
Outer Cond Material & Plat	ing	Brass, Tri-Metal
Outer Cond Plating Spec.		100 μin
Body Material & Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Spec.	118 µin	100 μin
Coupling Nut Material & Pla	nting Brass, Tri-Metal	
Coupling Nut Plating Spec.	118 µin	
Torque	7.08 in-lbs 0.8 Nr	n 9.74 in-lbs 1.1 Nm

Environmental Specifications

Temperature

Operating Range

-40 to +85 deg C

Compliance Certifications (see product page for current document)



Example: FMCA2546-12 = 12 inches long cable

FMCA2546-100cm = 100 cm long cable





Fire Rated Low PIM N Male to N Female Cable SPF-250 Coax in 7 Inch Using Times Microwave Parts 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: Fire Rated Low PIM N Male to N Female Cable SPF-250 Coax in 7 Inch Using Times Microwave Parts FMCA2546

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

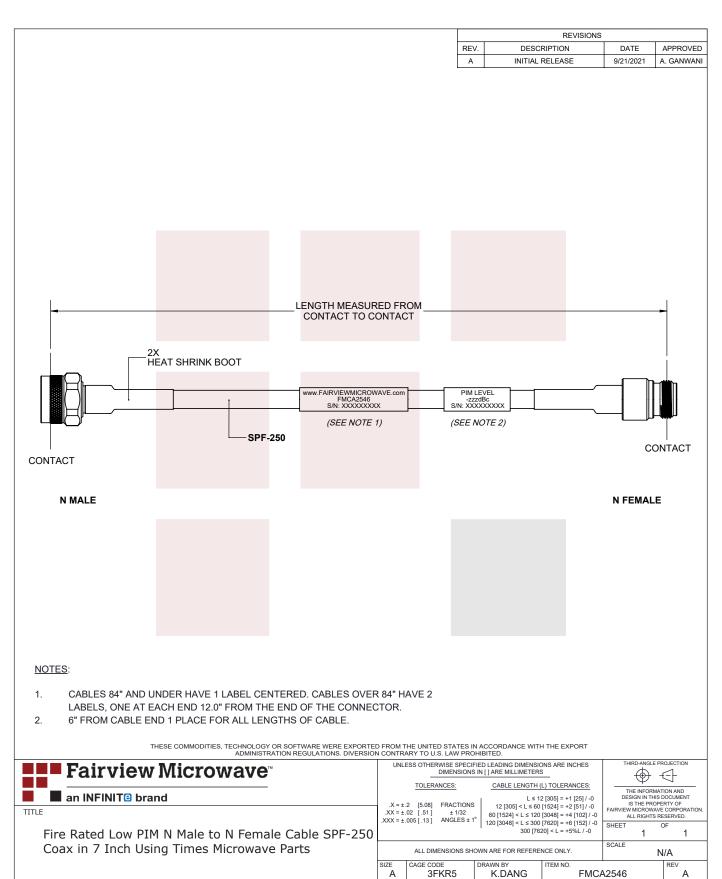
URL: https://www.fairviewmicrowave.com/fire-rated-low-pim-n-male-to-n-female-cable-spf-250-coax-in-7-inch-using-times-microwave-parts-fmca2546-p.aspx

to implem	ent improv	ements. Fairview	/ Microw	ave reserv	es the righ	nt to mak	ke such	changes	as requ	ired. Unle	ss otl	nerwise
stated, al	l specification	ons are nominal.	Fairvie	w Microwa	ve does n	ot make	any re	presentat	ion or v	warranty r	egard	ing the
		described hereir			purpose,	and Fair	rview M	icrowave	does n	ot assume	any	liability
arising ou	t of the use	of any part or do	ocument	tation.								

301 Leora Ln., Suite 100, Lewisville, TX 75056 | Tel: 1-800-715-4396 / (972) 649-6678 / Fax: (972) 649-6689







301 Leora Ln., Suite 100, Lewisville, TX 75056 | Tel: 1-800-715-4396 / (972) 649-6678 / Fax: (972) 649-6689

T-Rev.D