

Plenum Low PIM RA N Male to SMA Male Cable SPP-250-LLPL Coax

FMCA10075

Configuration

Connector 1: N Male Right AngleConnector 2: SMA MaleCable Type: SPP-250-LLPL

· Coax Flex Type: Corrugated

Features

- Max Frequency 6 GHzLow PIM: -160 dBc MaxShielding Effectivity > 100 dB
- Shielding Ellectivity > 100
- 76% Phase Velocity
- FEP Jacket

SPP-250-LLPL OUTER SHIELD DIELECTRIC SOLID CENTER

Applications

· General Purpose

· Laboratory Use

· Low PIM Applications

Description

The RA type N male to SMA male cable using SPP-250-LLPL coax, part number FMCA10075, from Fairview Microwave is in-stock and ships same day. This Fairview type N to SMA cable assembly has a male to male gender configuration with 50 ohm corrugated SPP-250-LLPL 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 FMCA10075 type N male to SMA male cable assembly operates to 6 GHz. The right angle type N interface on the SPP-250-LLPL cable allows for easier connections in tight spaces.

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	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
VSWR			1.4:1	
Velocity of Propagation		76		%
RF Shielding	100			dB
Passive Intermodulation			-160	dBc
Capacitance		27 [88.58]		pF/ft [pF/m]
Inductance		0.067 [0.22]		uH/ft [uH/m]
DC Resistance Inner Conductor		3 [9.84]		Ohms/1000ft [Ohms/Km]

Specifications by Frequency



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Part Number	Length	Description	F1	F2	F3	F4	Units	Weight (lbs)
		Frequency	500	1000	2500	5800	MHz	
FMCA10075	Custom Lengths	Insertion Loss (Typ.)	0.04	0.05	0.09	0.15	dB/ft	
TWEATOU75	Available	insertion Loss (Typ.)	0.13	0.18	0.3	0.48	dB/m	
FMCA10075-12	12 Inch	Insertion Loss (Typ.)	0.14	0.2	0.32	0.49	dB	0.072
FMCA10075-24	24 Inch	Insertion Loss (Typ.)	0.18	0.25	0.41	0.63	dB	0.082
FMCA10075-36	36 Inch	Insertion Loss (Typ.)	0.22	0.31	0.5	0.78	dB	0.092
FMCA10075-60	60 Inch	Insertion Loss (Typ.)	0.3	0.41	0.68	1.07	dB	0.102
FMCA10075-50CM	50 CM	Insertion Loss (Typ.)	0.17	0.23	0.38	0.58	dB	0.122

The insertion loss data for the base model does not include loss due to the connectors. Each length includes insertion loss due to the connectors.

Loss due to Connector 1: 0.04*SQRT(FGHz) dB Loss due to Connector 2: 0.1*SQRT(FGHz) dB Base Weight: 0.072 pounds Additional Weight per Inch: 0.61583 pounds

Mechanical Specifications

Cable Assembly

Bending Moment

Width/Diameter 0.5 in [12.7 mm] Weight 0.072 lbs [32.66 g]

Cable

Cable Type SPP-250-LLPL Impedance 50 Ohms Inner Conductor Type Solid Inner Conductor Material and Plating Copper Dielectric Type **PTFE** Number of Shields Outer Conductor 1 Material and Plating Copper Jacket Material FEP, Blue Jacket Diameter 0.28 in [7.11 mm] One Time Minimum Bend Radius

1.25 in [31.75 mm]

0.8 lbs-ft [1.08 N-m]



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Connectors

Description	Connector 1	Connector 2
Туре	N Male Right Angle	SMA Male
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Straight
Contact Material and Plating	Brass, Silver	Brass, Silver
Contact Plating Specification		200 μin minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Specification		80 μin minimum
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Plating Specification		80 µin minimum
Torque		7 in-lbs 0.79 Nm

Environmental Specifications

Operating Range Temperature

-40 to +125 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:



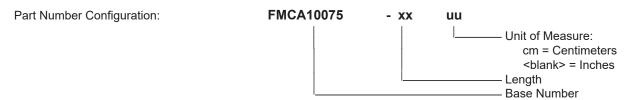
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Typical Performance Data

How to Order



Example: FMCA10075-12 = 12 inches long cable

FMCA10075-100cm = 100 cm long cable

Plenum Low PIM RA N Male to SMA Male Cable SPP-250-LLPL Coax from Fairview Microwave is in-stock and available to ship sameday. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: Plenum Low PIM RA N Male to SMA Male Cable SPP-250-LLPL Coax FMCA10075

URL: https://www.fairviewmicrowave.com/plenum-low-pim-ra-n-male-to-sma-male-cable-spp-250-llpl-coax-fm-ca10075-p.aspx

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