

RP SMA Plug Connector Crimp/Solder Attachment for RG174, RG316, RG188, .100 inch, LMR-100 Cable



FMCN5248

Configuration

- SMA Plug Reverse Polarity Connector
- MIL-STD-348
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: RG174, RG316, RG188, .100 inch, LMR-100
- 5/16 inch Hex

Features

- Operating Frequency of 12.4 MHz Max.
- Reverse Polarity
- Gold Plated Contact
- Contact plating according to MIL-G-45204

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

RP SMA Plug Standard Connector Crimp/Solder Attachment for RG174, RG316, RG188, .100 inch and LMR-100 Cable, part number FMCN5248, from Fairview Microwave is in-stock and ships same day. Our reverse polarity plug configuration uses a plug connector body with an inner contact receptacle. This SMA plug connector operates up to a maximum frequency of 12.4 MHz.

Fairview's RP SMA plug connector FMCN5248 datasheet specifications and outline drawing are shown in this PDF below. Our extensive offering of RF, microwave and millimeter wave connectors allows designers to configure and customize their signal connections however they like. From providing an I/O for a board design to creating a custom cable assembly configuration, Fairview Microwave has a connector solution to meet your needs. Fairview Microwave also has the expertise to build your custom cable assemblies for you and ship them same-day.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		12.4	MHz
Dielectric Withstanding Voltage (AC)			750	Vrms
Insulation Resistance	5,000			MOhms
Impedance		50		Ohms

Mechanical Specifications

Size

Length	0.85 in [21.59 mm]
Width	0.313 in [7.95 mm]
Height	0.313 in [7.95 mm]
Weight	0.008 lbs [3.63 g]
Mating Torque	3 to 5 in-lbs [[0.34 to 0.57 Nm]]

RP SMA Plug Connector Crimp/Solder Attachment for RG174, RG316, RG188, .100 inch, LMR-100 Cable



FMCN5248

Material Specifications

Description	Material	Plating
Contact		Gold MIL-G-45204
Insulation	PTFE	
Body	Brass	Nickel QQ-N-290
Coupling Nut	Brass	Nickel QQ-N-290

Environmental Specifications

Temperature

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

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For additional information on this product, please click the following link: [RP SMA Plug Connector Crimp/Solder Attachment for RG174, RG316, RG188, .100 inch, LMR-100 Cable FMCN5248](#)

URL: <https://www.fairviewmicrowave.com/sma-plug-reverse-polarity-rg174-rg316-rg188-.100-lmr-100-connector-fmcn5248-p.aspx>

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Environmental Specifications

Temperature

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

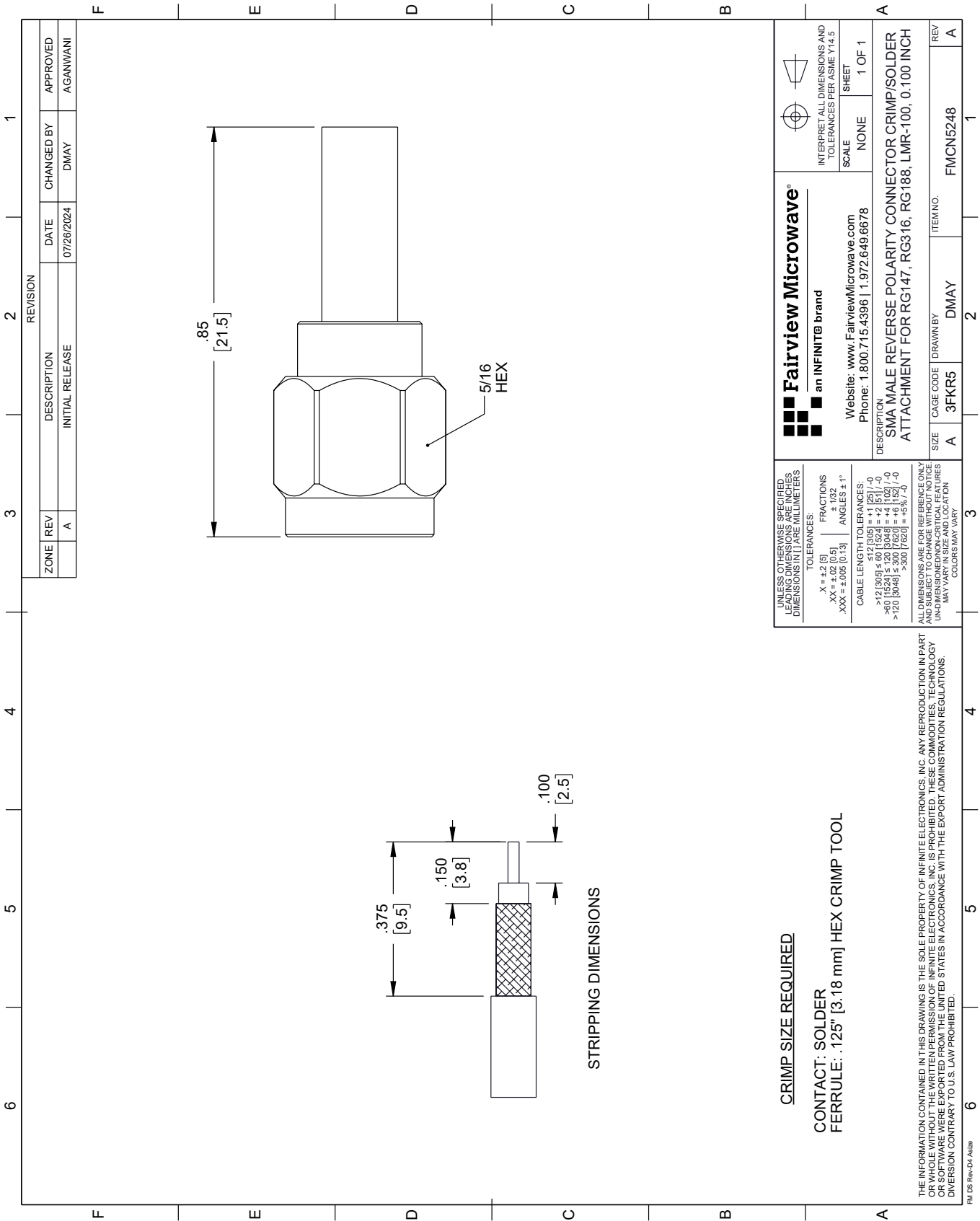
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Times Microwave LMR-100A-PVC Low Loss Flexible Coax Cable Black PVC Jacket



LMR-100A-PVC



Times Microwave Systems Connector Specification

Configuration

- Low Loss, Indoor/Outdoor Flexible Cable
- 2 Shield(s)

Features

- Max Operating Frequency of 8 GHz

Applications

- General Purpose RF Interconnect
- Laboratory Applications

Description

LMR-100A coax cable from Fairview is only one of a large number of radio frequency twinaxial and coaxial cable types specifically stocked to be ready for quick shipment. Fairview Microwave LMR-100A-PVC coax cable is manufactured in a flexible design and has a 50 Ohm impedance. This low loss flexible 50 Ohm coax cable LMR-100A-PVC LMR-100A is constructed with a 0.11 inch diameter and PVC jacket.

LMR-100A-PVC flexible 50 Ohm coax cable with PVC jacket is rated for a 8 GHz maximum operating frequency. This 50 Ohm 0.11 inch diameter and low loss flexible coax cable is built with a shield count of 2 and RF shielding of 90 dB.

Fairview Microwave LMR-100A coax is constructed with PE dielectric and a maximum operating temperature of 85 degrees C. Times Microwave LMR-100A coax cable specs for this wire properties can be found on its RF coax cable LMR-100A datasheet PDF specifications above.

LMR-100A cable is part of more than one million RF, microwave and millimeter wave parts in stock at Fairview. This Times Microwave low loss LMR-100A coax cable is ready to buy and can be shipped worldwide. Fairview also maintains a wide selection of other radio frequency twinaxial and coaxial cable types that ship same-day from our warehouse as with the rest of our other RF/microwave and millimeter wave components.

* LMR™ is a trademark of Times Microwave Systems.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		8	GHz
Cutoff Frequency		90		GHz
Impedance		50		Ohms
Velocity of Propagation		66		%
Time Delay		1.54 [5.05]		ns/ft [ns/m]
Shielding Effectiveness	90			dB
Dielectric Withstanding Voltage (DC)			500	Vdc
Jacket Spark			2,000	Vrms
Inner Conductor DC Resistance			81	Ohms/1000ft

Times Microwave LMR-100A-PVC Low Loss Flexible Coax Cable Black PVC Jacket



LMR-100A-PVC

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Outer Conductor DC Resistance			9.5	Ohms/1000ft
Nominal Capacitance		30.8 [101.05]		pF/ft [pF/m]
Nominal Inductance		0.077 [0.25]		uH/ft [uH/m]
Input Power (Peak)			600	Watts

Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	50	150	220	450	900	MHz
Attenuation, Typ	3.9	8.9	10.9	15.8	22.8	dB/100ft
	12.8	29.2	35.76	51.84	74.8	dB/100m
Input Power (CW), Max	230	100	83	57	39	Watts

Description	F6	F7	F8	F9	F10	Units
Frequency	1.5	1.8	2	2.5	8	GHz
Attenuation, Typ	30.1	33.2	35.2	39.8	64.1	dB/100ft
	98.75	108.92	115.49	130.58	210.3	dB/100m
Input Power (CW), Max	29	27	25	22	13	Watts

Mechanical Specifications

Diameter	0.11 in [2.79 mm]
Weight	0.009 lbs/ft [0.01 kg/m]
Min. Bend Radius (Installation)	0.25 in [6.35 mm]
Min. Bend Radius (Repeated)	1 in [25.4 mm]
Bending Moment	0.1 lbs-ft [0.14 N-m]
Tensile Strength	15 lbs [6.8 kg]
Flat Plate Crush	10 lbs/in [0.18 kg/mm]

Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper Clad Steel, 1 Strand	0.018 in [0.46 mm]
Conductor Type	Solid	
Dielectric	PE	0.06 in [1.52 mm]
First Shield	Aluminum Tape	
Second Shield	Tinned Copper Braid	
Jacket	PVC, Black	0.11 in [2.79 mm]

Times Microwave LMR-100A-PVC Low Loss Flexible Coax Cable Black PVC Jacket



LMR-100A-PVC

Environmental Specifications

Temperature

Operating Range	-40 to 85 deg C
Storage Range	-70 to 85 deg C

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

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URL: <https://www.fairviewmicrowave.com/lmr100-low-loss-flexible-coax-cable-pvc-jacket-lmr-100a-pvc-p.aspx>

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LMR-100A-PVC CAD Drawing
 Times Microwave LMR-100A-PVC Low Loss Flexible Coax Cable Black PVC Jacket

