



Reverse Polarity MCX Male Right Angle Push-On Connector  
Crimp/Solder Attachment for RG316, RG188, RG174

TECHNICAL DATA SHEET

PE45050

**Configuration**

Connector	MCX Male Reverse Polarity, Push-On
Connector Interface Type	RG316, RG188, RG174
Attachment Method (Shield/Contact)	Crimp/Solder
Body Style	Right Angle

**Electrical Specifications**

Frequency Range	DC to 6 GHz
Impedance	50 Ohms
Maximum VSWR	1.3:1
Maximum Operating Voltage	335 Volts
Dielectric Withstanding Voltage	1,000 Vrms

**Mechanical Specifications**

**Size**

Length	0.34 in [8.64 mm]
Width/Dia.	0.2 in [5.08 mm]
Height	0.56 in [14.22 mm]

**Connector**

Type	MCX Male Reverse Polarity
Contact Material and Plating	Beryllium Copper, Gold
Outer Conductor Material and Plating	Brass, Gold
Body Material and Plating	Beryllium Copper, Gold
Dielectric Type	PTFE

**Compliance Certifications** (visit [www.Pasternack.com](http://www.Pasternack.com) for current document)

RoHS Compliant

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Reverse Polarity MCX Male Right Angle Push-On Connector Crimp/Solder Attachment for RG316, RG188, RG174 PE45050](#)



Reverse Polarity MCX Male Right Angle Push-On Connector  
Crimp/Solder Attachment for RG316, RG188, RG174

TECHNICAL DATA SHEET

PE45050

**Plotted and Other Data**

Notes:

- Values at +25 °C, sea level

Reverse Polarity MCX Male Right Angle Push-On Connector Crimp/Solder Attachment for RG316, RG188, RG174 from Pasternack Enterprises 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.

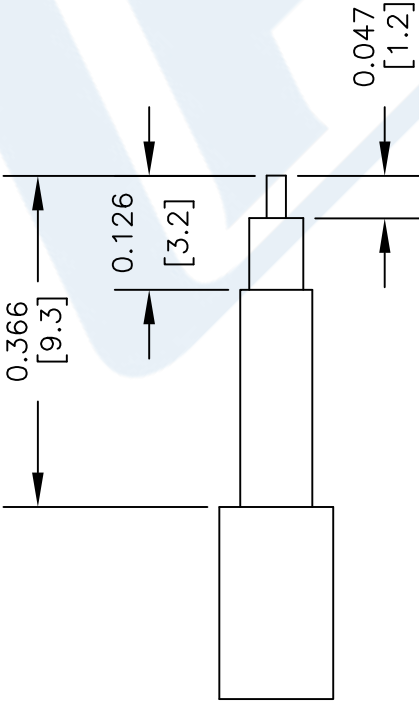
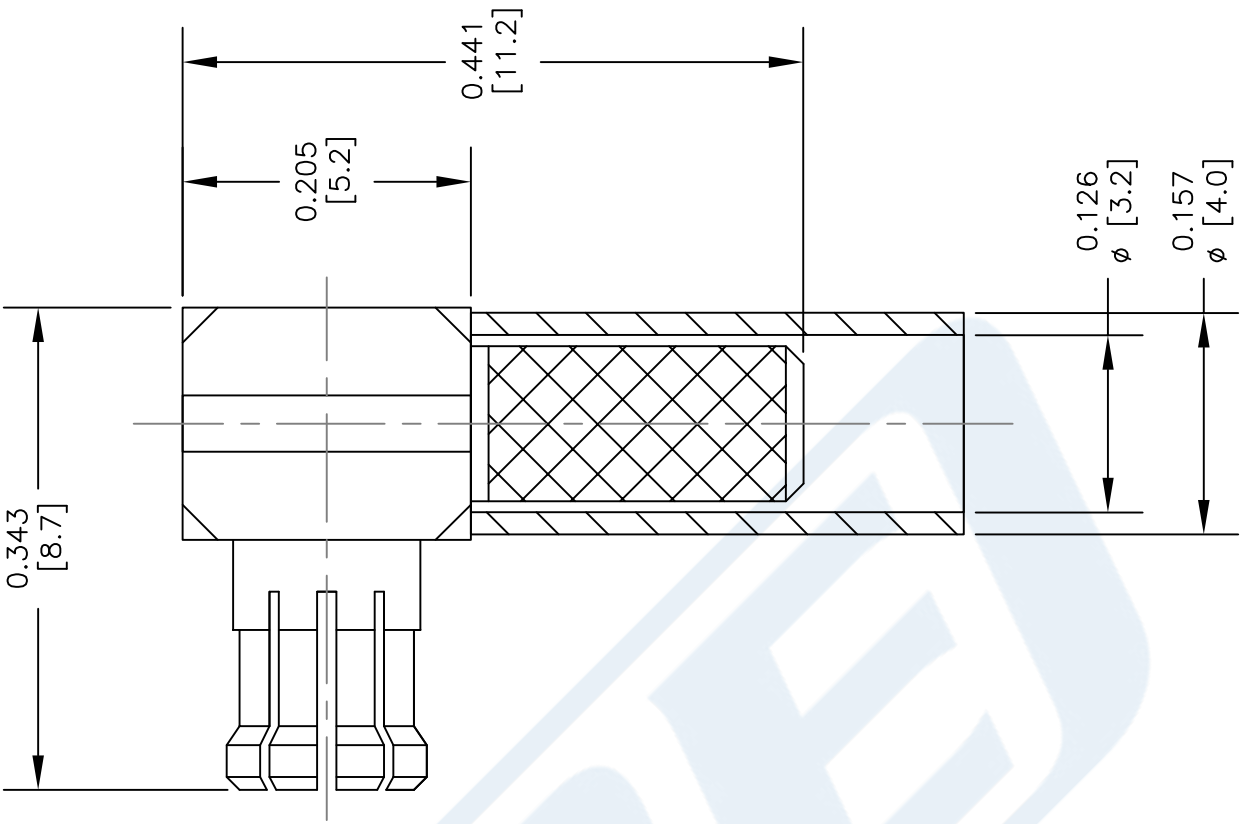
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PE45050 CAD Drawing

Reverse Polarity MCX Male Right Angle Push-On Connector  
Crimp/Solder Attachment for RG316, RG188, RG174



STRIPPING DIMENSIONS

ASSEMBLY PROCEDURES

1. STRIP CABLE AS SHOWN & TIN CENTER CONDUCTOR. SLIDE FERRULE OVER CABLE.
2. INSTALL CABLE INTO BODY OF CONNECTOR & SOFT SOLDER CENTER CONDUCTOR IN PLACE.
3. CRIMP FERRULE. INSERT PTFE & PRESS CAP DOWN.

CRIMP SIZE REQUIRED

FERRULE: .128" HEX CRIMP TOOL

**PE PASTERNAK®**  
THE ENGINEER'S RF SOURCE  
Pasternack Enterprises, Inc.  
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Website: www.pasternack.com | E-Mail: sales@pasternack.com

DWG TITLE  
**PE45050**

FSCM NO. 53919

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].  
4. FITS MIL-C-17 AND EQUIVALENT CABLES.

CAD FILE 082514

SCALE N/A

SIZE A

2233



## SMA Male Connector Crimp/Solder Attachment for LMR-100, PE-C100, RG174, RG188, RG316

### RF Connectors Technical Data Sheet


**SC-100-SM**

#### Times Microwave Systems Connector Specification

##### Configuration

- SMA Male Connector
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: LMR-100, PE-C100, RG174, RG188, RG316

##### Features

- Max. Operating Frequency 6 GHz
- Gold Plated Brass Contact
- 15  $\mu$ m contact plating

##### Applications

- General Purpose Test
- Custom Cable Assemblies

##### Description

Pasternack's SC-100-SM, SMA, Standard, Connector is part of our full line of RF components available for same-day shipping. Our SMA male connector operates up to a maximum frequency of 6 GHz.

Our SMA male connector SC-100-SM datasheet specifications and drawing with dimensions are shown below in this PDF. Pasternack's broad catalog of RF, microwave and millimeter wave connectors allows designers to configure and customize their signal connections however they like. Whether the need is to provide an I/O for a board design, or simply create a custom cable assembly configuration, Pasternack has the right connector for the job. Pasternack can also expertly build your custom cable assemblies for you and ship same-day.

##### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
Insertion Loss			0.25	dB
Operating Voltage (AC)			375	Vrms
Impedance		50		Ohms
Dielectric Withstanding Voltage (AC)			500	Vrms
Insulation Resistance	5,000			MOhms

##### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 3	3 to 5				GHz
VSWR, Max	1.2:1	1.3:1				

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male Connector Crimp/Solder Attachment for LMR-100, PE-C100, RG174, RG188, RG316 SC-100-SM](#)



## SMA Male Connector Crimp/Solder Attachment for LMR-100, PE-C100, RG174, RG188, RG316

### RF Connectors Technical Data Sheet

#### Mechanical Specifications

##### Size

Length	1.00 in [25.40 mm]
Width	0.32 in [8.00 mm]
Height	0.32 in [8.00 mm]
Weight	0.01 lbs [4.31 g]
Mating Cycles	500 Cycles
Mating Torque	7 to 10 in-lbs [0.79 to 1.13 Nm]
Cable Retention Force	20 lbs [9.07 kg]

#### Material Specifications

Description	Material	Plating
Contact	Brass	Gold 15 µin
Insulation	PTFE	
Body	Brass	Nickel 200 µin
Coupling Nut	Brass	Nickel 200 µin

#### Environmental Specifications

##### Temperature

Operating Range	-40 to +125 deg C
Shock	MIL-STD 202G, Meth. 213, Cond. I
Vibration	MIL-STD 202G, Meth. 204, Cond. D
Thermal Shock	MIL-STD 202G, Meth. 107, Cond. B

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

#### Plotted and Other Data

Notes:

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male Connector Crimp/Solder Attachment for LMR-100, PE-C100, RG174, RG188, RG316 SC-100-SM](#)



## SMA Male Connector Crimp/Solder Attachment for LMR-100, PE-C100, RG174, RG188, RG316

### RF Connectors Technical Data Sheet



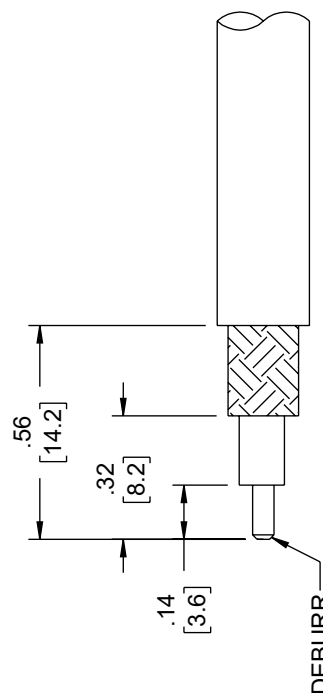
**SC-100-SM**

SMA Male Connector Crimp/Solder Attachment for LMR-100, PE-C100, RG174, RG188, RG316 from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.



Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male Connector Crimp/Solder Attachment for LMR-100, PE-C100, RG174, RG188, RG316 SC-100-SM](https://www.pasternack.com/sma-male-lmr-100-pe-c100-rg174-rg188-rg316-connector-sc-100-sm-p.aspx)

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SMA Male Connector Crimp/Solder Attachment for LMR-100, PE- C100, RG174, RG188, RG316															
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TOLERANCES: <table><tr><td><math>XX \pm .2</math></td><td>[.5]</td><td>FRACTIONS</td></tr><tr><td><math>XX \pm .02</math></td><td>[.5]</td><td>+1/32</td></tr><tr><td><math>XXX \pm .005</math></td><td>[.13]</td><td>ANGLES <math>\pm 1^\circ</math></td></tr></table>						$XX \pm .2$	[.5]	FRACTIONS	$XX \pm .02$	[.5]	+1/32	$XXX \pm .005$	[.13]	ANGLES $\pm 1^\circ$	
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CABLE LENGTH TOLERANCES: <table><tr><td><math>\leq 12</math> [305]</td><td><math>\pm .1</math> [25] / -0</td></tr><tr><td><math>&gt; 12</math> [305] <math>\leq 60</math> [1524]</td><td><math>\pm .2</math> [51] / -0</td></tr><tr><td><math>&gt; 60</math> [1524] <math>\leq 120</math> [3048]</td><td><math>\pm .4</math> [102] / -0</td></tr><tr><td><math>&gt; 120</math> [3048] <math>\leq 300</math> [7620]</td><td><math>\pm .6</math> [152] / -0</td></tr><tr><td><math>&gt; 300</math> [7620]</td><td><math>\pm .5\%</math> / -0</td></tr></table>						$\leq 12$ [305]	$\pm .1$ [25] / -0	$> 12$ [305] $\leq 60$ [1524]	$\pm .2$ [51] / -0	$> 60$ [1524] $\leq 120$ [3048]	$\pm .4$ [102] / -0	$> 120$ [3048] $\leq 300$ [7620]	$\pm .6$ [152] / -0	$> 300$ [7620]	$\pm .5\%$ / -0
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## Low Loss Flexible LMR-100A-PVC Indoor/Outdoor Rated Coax Cable Double Shielded with 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
- Low Loss Cable
- Phase Velocity 66% VoP

#### Applications

- Laboratory Applications
- General Purpose RF Interconnect

#### Description

LMR-100A-PVC part number from Pasternack is a LMR-100A-PVC coax cable that is flexible. Pasternack LMR-100A flexible coax cable is 50 Ohm and has a PE dielectric. Our LMR-100A coax is constructed with a 0.11 jacket made of PVC. LMR-100A coax has a shield count of 2, a RF shielding of 90 dB and the maximum frequency for this Pasternack cable is 8 GHz. LMR-100A coax cable has an attenuation at 1 GHz of 24 dB.

Pasternack LMR-100A-PVC coax cables are part of over 40,000 RF, microwave and millimeter wave components. LMR-100A cables and our other RF parts are available for same day shipping worldwide. Custom RF cable assemblies using LMR-100A or other coax can be built and shipped same day as well.

#### 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
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



## Low Loss Flexible LMR-100A-PVC Indoor/Outdoor Rated Coax Cable Double Shielded with Black PVC Jacket



### LMR-100A-PVC

#### 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	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]

#### Environmental Specifications

<b>Temperature</b>	
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:

## Low Loss Flexible LMR-100A-PVC Indoor/Outdoor Rated Coax Cable Double Shielded with Black PVC Jacket



### LMR-100A-PVC

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URL: <https://www.pasternack.com/50-ohm-low-loss-flexible-lmr-100apvc-jacket-double-shielded-lmr-100a-pvc-p.aspx>

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## Low Loss Flexible LMR-100A-PVC Indoor/Outdoor Rated Coax Cable Double Shielded with Black PVC Jacket

