

## SMA Male to SMA Male Test Cable 48 Inch Length Using PE-P160 Coax



### RF Cable Assemblies Technical Data Sheet

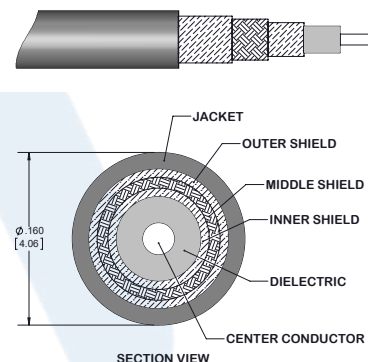
PE366-48

#### Configuration

- Connector 1: SMA Male
- Connector 2: SMA Male
- Cable Type: PE-P160

#### Features

- Max Frequency 26.5 GHz
- Shielding Effectivity > 90 dB
- 78% Phase Velocity
- Triple Shielded
- ETFE Jacket



#### Applications

- General Purpose
- Test & Measurement
- Laboratory Use

#### Description

Pasternack's PE366-48 SMA male to SMA male 48 inch cable using PE-P160 coax is part of our full line of RF components available for same-day shipping. Pasternack's flexible RF cable assemblies are ideal for applications where tight bends and flexure are required. This Pasternack SMA to SMA cable assembly has a male to male gender configuration with 50 ohm flexible PE-P160 coax. The PE366-48 SMA male to SMA male cable assembly operates to 26.5 GHz. The triple shielding of this Pasternack cable assembly provides excellent shielding effectiveness of better than 90 dB.

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 available RF cable assembly value added services include connector orientation or clocking, heat shrink booting and custom labeling. RF testing can also be performed to document the electrical performance of your cable assembly.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male to SMA Male Test Cable 48 Inch Length Using PE-P160 Coax PE366-48](#)



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#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		26.5	GHz
VSWR			1.35:1	
Velocity of Propagation		78		%
RF Shielding	90			dB
Capacitance		26 [85.3]		pF/ft [pF/m]
Inductance		66 [216.54]		uH/ft [uH/m]

#### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	4.5	9	26.5	GHz
Insertion Loss (Max.)	0.75	0.97	1.42	1.98	3.5	dB

#### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax used in the assembly. The Insertion Loss includes an estimated insertion loss of 0.1dB of connector loss

#### Mechanical Specifications

##### Cable Assembly

Length*	48 in [121.92 cm]
Diameter	0.33 in [8.38 mm]
Weight	0.062 lbs [28.12 g]

##### Cable

Cable Type	PE-P160
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper, Silver
Dielectric Type	PTFE
Number of Shields	3
Shield Layer 1	Silver Plated Copper
Shield Layer 2	Aluminum Tape
Shield Layer 3	Silver Plated Copper
Jacket Material	ETFE, Gray
Jacket Diameter	0.16 in [4.06 mm]

One Time Minimum Bend Radius	0.8 in [20.32 mm]
Typical Flex Cycles	10,000

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#### Connectors

Description	Connector 1	Connector 2
Type	SMA Male	SMA Male
Specification	MIL-STD-348	MIL-STD-348
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Contact Plating Specification	ASTM-B488 50μ In. Min	ASTM-B488 50μ In. Min
Dielectric Type	PTFE	PTFE
Body Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel
Body Plating Specification	SAE-AMS-2700	SAE-AMS-2700
Coupling Nut Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel
Coupling Nut Plating Specification	SAE-AMS-2700	SAE-AMS-2700
Hex Size	5/16 Inch	5/16 Inch
Torque	8 in-lbs [0.9 Nm]	8 in-lbs [0.9 Nm]

Mechanical Specification Notes:

\*All cable assemblies have a length tolerance of 1.5% or  $\pm 3/8$ ", whichever is greater.

#### Environmental Specifications

##### Temperature

Operating Range -45 to +125 deg C

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

#### Plotted and Other Data

Notes:

- Values at 25°C, sea level.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male to SMA Male Test Cable 48 Inch Length Using PE-P160 Coax PE366-48](#)



## SMA Male to SMA Male Test Cable 48 Inch Length Using PE-P160 Coax

### RF Cable Assemblies Technical Data Sheet

PE366-48

#### How to Order

Part Number Configuration:

PE366

- xx

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Unit of Measure:  
cm = Centimeters  
<blank> = Inches  
Length  
Base Number

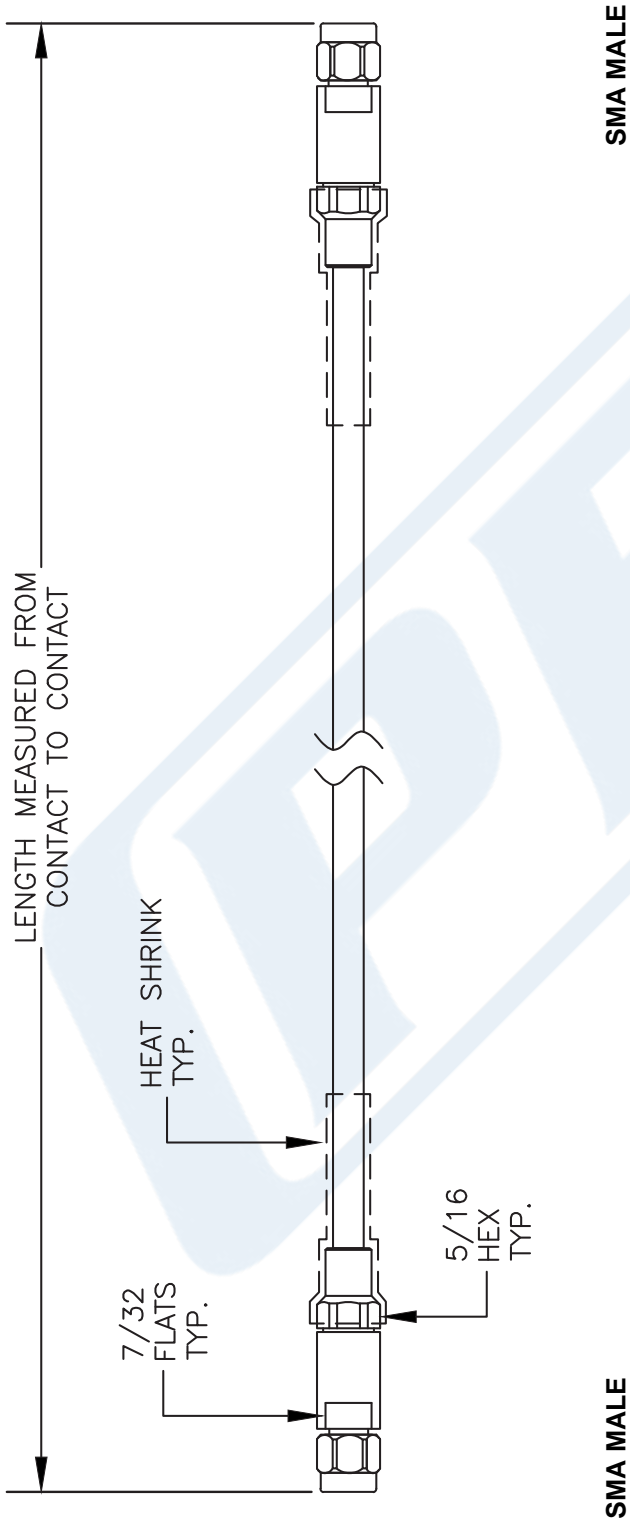
Example: PE366-12 = 12 inches long cable  
PE366-100cm = 100 cm long cable

SMA Male to SMA Male Test Cable 48 Inch Length Using PE-P160 Coax 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 to SMA Male Test Cable 48 Inch Length Using PE-P160 Coax PE366-48](https://www.pasternack.com/sma-male-sma-male-pe-p160-cable-assembly-pe366-48-p.aspx)

URL: <https://www.pasternack.com/sma-male-sma-male-pe-p160-cable-assembly-pe366-48-p.aspx>

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 to implement improvements. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.



How To Order			Part # Ext.	Length In Inches	Part # Ext.	Length In Centimeters
<b>Part Number Configuration</b>		<b>Examples</b>	-12	12"	-25CM	25Cm
PE3	zzz	yy	-xx	uu	-50CM	50Cm
00 - 99999			-36	36"	-75CM	75Cm
LF = RoHS Compliant			-48	48"	-100CM	100Cm
< Blank > = Standard			-60	60"	-125CM	125Cm
Note: LF applies only to RF cables		Length	-xx	Custom Length	-xxCM	Custom Length

**PASTERNAK®**  
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**PE366**  
DWG TITLE

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. LENGTH TOLERANCE IS ± 1.5% OR 3/8", WHICHEVER IS GREATER.

FSCM NO. 53919	CAD FILE 061213	SCALE N/A	SIZE A	2233
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