

### SMA Male Right Angle to SMA Male Right Angle Low Loss Cable 50 CM Length Using PE-P160LL Coax



#### **RF Cable Assemblies Technical Data Sheet**

#### PE3C5248-50CM

#### Configuration

- Connector 1: SMA Male Right AngleConnector 2: SMA Male Right Angle
- · Cable Type: PE-P160LL

#### **Features**

- Max Frequency 18 GHz
- Shielding Effectivity > 90 dB
- 82.5% Phase Velocity
- Triple Shielded
- FEP Jacket
- 0.8 inch Minimum Bend Radius
- Max VSWR of 1.35:1 to 18 GHz
- · Same Day Shipment of Custom Lengths
- · RoHS and REACH Compliant

## 

#### **Applications**

- · General Purpose
- · Laboratory Use

- Automated Test Systems
- Airborne Systems

- Phased Arrays
- EW and Countermeasures

#### Description

The PE3C5248-50CM SMA Male Right Angle to SMA Male Right Angle Low Loss cable assembly is part of a series of cable assemblies that use our PE-P160LL double shielded coax. The PE-P160LL based cable assemblies are available in a variety of connector configurations operating to a maximum frequency for this cable series of 18 GHz. The PE3C5248-50CM high performance cable assembly with a 82.5% phase velocity offers very low loss performance in a 0.16 inch coax up to 18 GHz. The shielding effectiveness of the PE-P160LL double shielded coax is greater than 95 dB. The durable stainless steel connectors and FEP cable jacket provide a cost effective design ideal for test environments where a rugged cable assembly is required. A heavy duty heat shrink booting provides improved strain relief and adds to the durability of the cable assembly.

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 Right Angle to SMA Male Right Angle Low Loss Cable 50 CM Length Using PE-P160LL Coax PE3C5248-50CM



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#### **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
VSWR			1.35:1	
Velocity of Propagation		82.5		%
RF Shielding	90			dB
Capacitance		25 [82.02]		pF/ft [pF/m]

#### **Specifications by Frequency**

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	4.5	9	18	GHz
Insertion Loss (Typ.)	0.24	0.35	0.53	0.76	1.09	dB

**Electrical Specification Notes:** 

The Insertion Loss data above is based on the performance specifications of the coax cable used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.04\*SQRT(F(GHz))dB maximum per connector.

#### **Mechanical Specifications**

#### **Cable Assembly**

Length\* 19.69 in [500.13 mm]

Cable

Cable Type PE-P160LL Impedance 50 Ohms Inner Conductor Type Solid Inner Conductor Material and Plating Copper, Silver Dielectric Type Expanded PTFE Tape Number of Shields Shield Layer 1 Silver Plated Copper Shield Layer 2 Aluminum Polyester Shield Layer 3 Silver Plated Copper Jacket Material **FEP** Jacket Diameter 0.16 in [4.06 mm]

Repeated Minimum Bend Radius 0.8 in [20.32 mm]

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Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451

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#### **Connectors**

Description	Connector 1	Connector 2		
Туре	SMA Male Right Angle	SMA Male Right Angle		
Impedance	50 Ohms	50 Ohms		
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold		
Contact Plating Specification	ASTM-B488	ASTM-B488		
Dielectric Type	PTFE	PTFE		
Body Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel		
Coupling Nut Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel		

**Environmental Specifications** 

**Temperature** 

Operating Range

-55 to +165 deg C

Compliance Certifications (see product page for current document)

**Plotted and Other Data** 

Notes:

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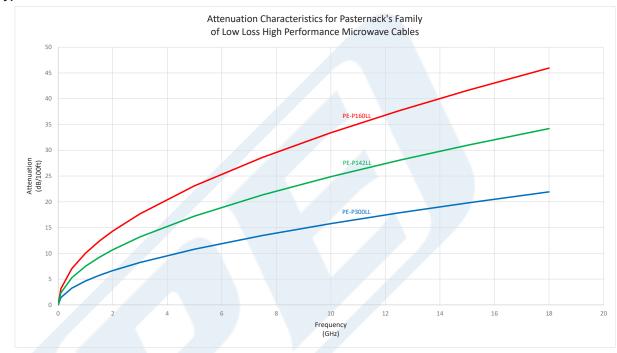
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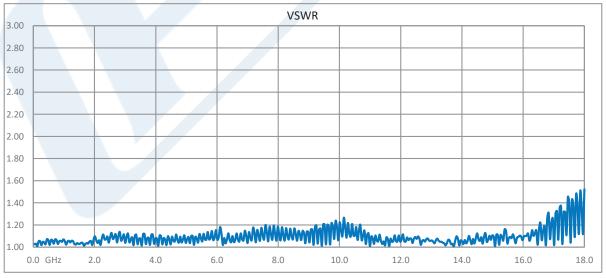


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#### **Typical Performance Data**





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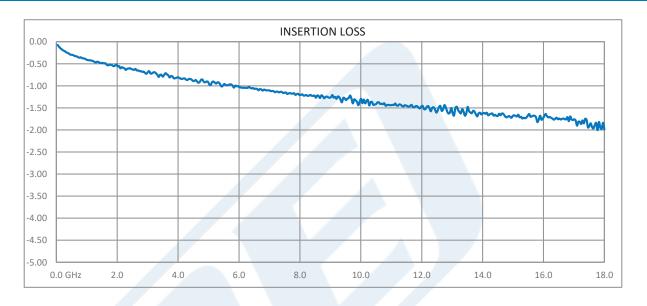


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#### PE3C5248-50CM

#### **How to Order**



Example: PE3C5248-12 = 12 inches long cable PE3C5248-100cm = 100 cm long cable

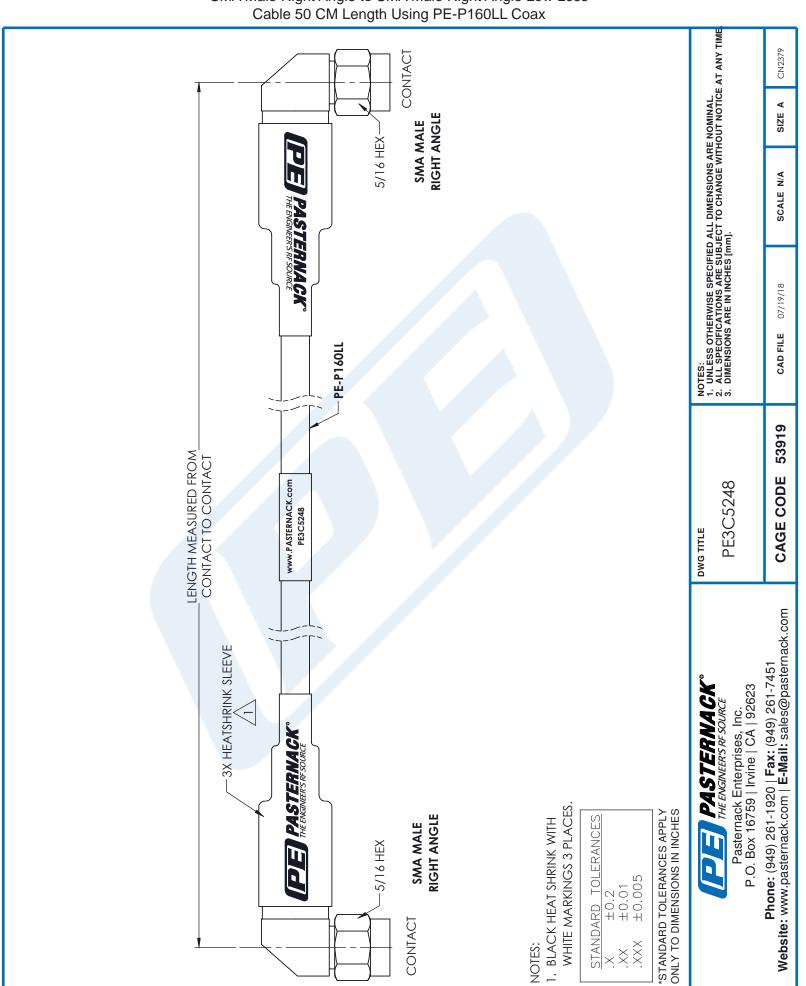
SMA Male Right Angle to SMA Male Right Angle Low Loss Cable 50 CM Length Using PE-P160LL Coax from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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URL: https://www.pasternack.com/sma-male-sma-male-pe-p160ll-cable-assembly-pe3c5248-50cm-p.aspx

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**PE3C5248-50CM CAD Drawing**SMA Male Right Angle to SMA Male Right Angle Low Loss Cable 50 CM Length Using PE-P160LL Coax



PE3C5248-50CM REV 1.2

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