



### RF Cable Assemblies Technical Data Sheet

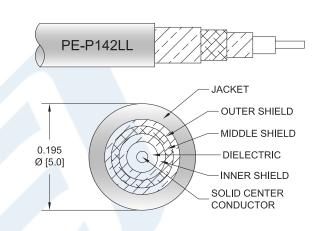
### PE3C0689-100CM

### Configuration

Connector 1: SMA MaleConnector 2: N MaleCable Type: PE-P142LL

#### **Features**

- 83% Velocity of Propagation
- Shielding effectiveness >95 dB
- Maximum VSWR is < 1.35:1 to 18 GHz
- . Minimum Bend Radius of 1 inch
- Operating Temperature range of -55 to +125 °C
- · RoHS and REACH Compliant
- · Same day shipment and customs lengths
- 100% Continuity, Hi-Pot, and RF tested



### **Description**

The PE3C0689 series high performance test cable's 0.195 inch diameter and 83% phase velocity offer very low loss performance up to 18 GHz. The durable stainless steel connectors and FEP jacket provide a cost effective design ideal for test environments where a rugged cable assembly is required. The series is offered with Type N, TNC, and SMA connectors all rated to 18 GHz. A heavy duty boot provides improved strain relief and adds to the durability of the cable assemblies. These cable assemblies are built using a double shielded flexible cable, providing excellent shielding effectiveness of greater than 95 dB. All PE3C0689 cable assemblies are 100% Continuity, Hi-POT, and RF tested to published specifications. Custom lengths are built to order and shipped same day.

### **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
VSWR			1.35:1	
Return Loss	16.54			dB
Velocity of Propagation		83		%
RF Shielding	95			dB
Capacitance		25 [82.02]		pF/ft [pF/m]

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 N Male Low Loss Cable 100 cm Length Using PE-P142LL Coax, RoHS PE3C0689-100CM

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

Sales@Pasternack.com • Techsupport@Pasternack.com





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### **Specifications by Frequency**

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	4.5	9	18	GHz
Insertion Loss (Max.)	0.74	0.86	1.06	1.34	1.7	dB
Insertion Loss (Typ.)	0.64	0.74	0.93	1.15	1.47	dB

### **Mechanical Specifications**

**Cable Assembly** 

Length Diameter

Weight

Cable

Cable Type Impedance

Inner Conductor Type

Inner Conductor Material and Plating

Dielectric Type Number of Shields Shield Layer 1

Shield Layer 2 Shield Layer 3

Jacket Material Jacket Diameter

One Time Minimum Bend Radius

39.37 in [100 cm] 0.822 in [20.88 mm]

0.308 lbs [139.71 g]

PE-P142LL 50 Ohms Solid

Copper, Silver

PTFE 3

> Silver Plated Copper Tape Aluminum Polyester

Silver Plated Copper Wire

FEP, Green

0.195 in [4.95 mm]

1 in [25.4 mm]

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#### **Connectors**

Description	Connector 1	Connector 2	
Туре	SMA Male	N Male	
Specification	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. Minimum	ASTM-B488, 50µ in. minimum	
Dielectric Type	PTFE	PTFE	
Outer Conductor Material and Plating		Passivated Stainless Steel	
Outer Conductor Plating Specification		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	3/4 Inch	
Torque	8 in-lbs [0.9 Nm]	14 in-lbs [1.58 Nm]	
Body Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel	
Body Plating Specification	SAE-AMS-2700	SAE-AMS-2700	

### **Environmental Specifications**

**Temperature** 

Operating Range -55 to +125 deg C

Compliance Certifications (visit www.Pasternack.com for current document)

RoHS Compliant

Yes

**REACH Compliant** 

12/17/2015

### **Plotted and Other Data**

Notes:

• Values at 25°C, sea level.

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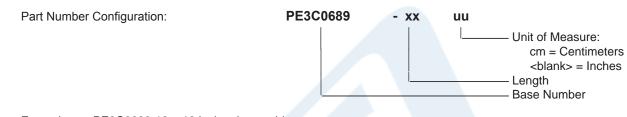




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### PE3C0689-100CM

#### **How to Order**



Example: PE3C0689-12 = 12 inches long cable PE3C0689-100cm = 100 cm long cable

SMA Male to N Male Low Loss Cable 100 cm Length Using PE-P142LL Coax, RoHS 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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URL: https://www.pasternack.com/sma-male-n-male-pe-p142ll-cable-assembly-pe3c0689-100cm-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.

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PE3C0689-100CM CAD Drawing
SMA Male to N Male Low Loss Cable 100 cm Length Using PE-P142LL Coax, RoHS

