



# **RF Cable Assemblies Technical Data Sheet**

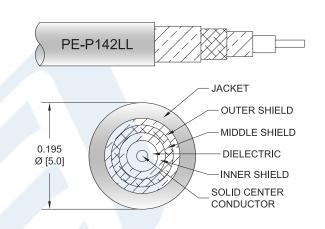
PE3C0689-48

# 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 48 Inch Length Using PE-P142LL Coax, RoHS PE3C0689-48

ISO 9001 : 2008 Registered

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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.)	0.82	0.98	1.22	1.58	2.02	dB
Insertion Loss (Typ.)	0.7	0.82	1.06	1.34	1.74	dB

### **Mechanical Specifications**

**Cable Assembly** 

 Length
 48 in [121.92 cm]

 Diameter
 0.822 in [20.88 mm]

 Weight
 0.34 lbs [154.22 g]

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

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  N Male	
Туре	SMA 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

**REACH Compliant** 12/17/2015

### **Plotted and Other Data**

Notes:

• Values at 25°C, sea level.

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PE3C0689-48

#### How to Order



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

SMA Male to N Male Low Loss Cable 48 Inch 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.

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 48 Inch Length Using PE-P142LL Coax, RoHS PE3C0689-48

URL: https://www.pasternack.com/sma-male-n-male-pe-p142ll-cable-assembly-pe3c0689-48-p.aspx

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