

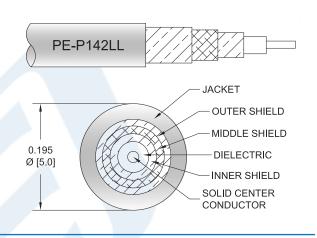
## **RF Cable Assemblies Technical Data Sheet**

### Configuration

- Connector 1: N Female Bulkhead
- Connector 2: N Female Bulkhead
- Cable Type: PE-P142LL

### Features

- 83% Velocity of Propagation
- Shielding effectiveness >95 dB
- Maximum VSWR is < 1.40:1 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 PE3C1000 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 PE3C1000 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			1.4:1	
Return Loss	15.56			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: N Female Bulkhead to N Female Bulkhead Low Loss Cable Using PE-P142LL Coax, RoHS PE3C1000

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



Distanting Property of the second





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

### PE3C1000

### **Specifications by Frequency**

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	4.5	9	18	GHz
Insertion Loss (Max.)	0.1	0.14	0.2	0.29	0.4	dB/ft
	[0.33]	[0.46]	[0.66]	[0.95]	[1.31]	[dB/m]
Insertion Loss (Typ.)	0.07	0.1	0.16	0.23	0.33	dB/ft
	[0.23]	[0.33]	[0.52]	[0.75]	[1.08]	[dB/m]

### Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.05dB x vFrequency (GHz) per connector.

### **Mechanical Specifications**

Cable Assembly 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

0.875 in [22.23 mm] 0.188 lbs [85.28 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]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: N Female Bulkhead to N Female Bulkhead Low Loss Cable Using PE-P142LL Coax, RoHS PE3C1000

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





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

### **PE3C1000**

#### Connectors

Description	Connector 1	Connector 2 N Female Bulkhead	
Туре	N Female Bulkhead		
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. Minimum	ASTM-B488, 50µ In. Minimum	
Dielectric Type	PEI	PEI	
Outer Conductor Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel	
Outer Conductor Plating Specification	SAE-AMS-2700	SAE-AMS-2700	
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

12/17/2015

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

REACH Compliant

#### **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: N Female Bulkhead to N Female Bulkhead Low Loss Cable Using PE-P142LL Coax, RoHS PE3C1000

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





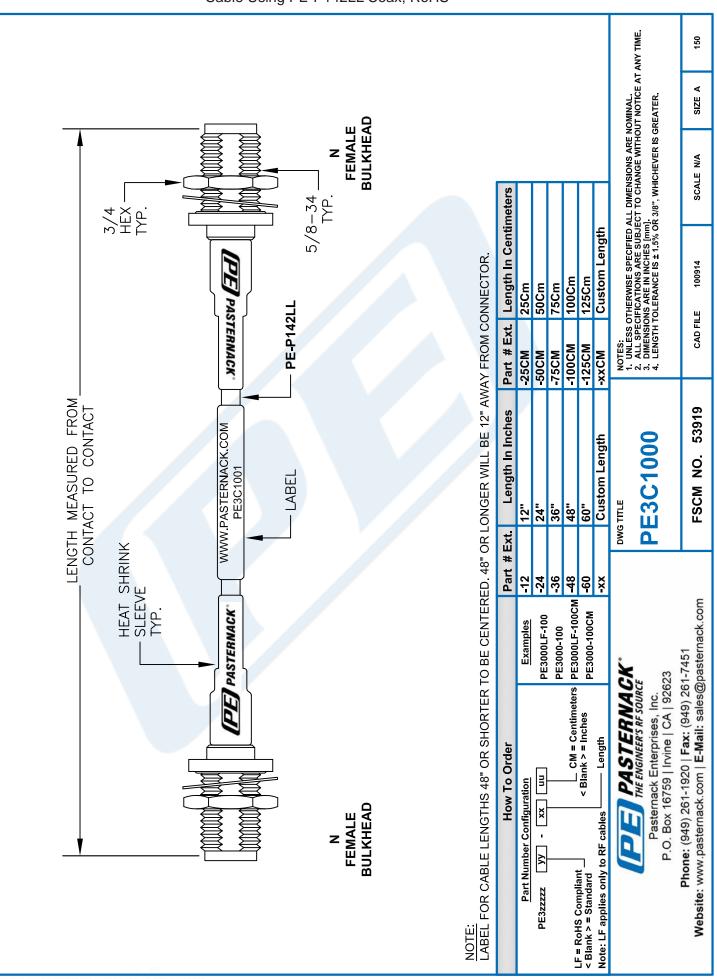
## **RF Cable Assemblies Technical Data Sheet**

### **PE3C1000**

## How to Order PE3C1000 Part Number Configuration: - XX uu Unit of Measure: cm = Centimeters <blank> = Inches Length Base Number Example: PE3C1000-12 = 12 inches long cable PE3C1000-100cm = 100 cm long cable N Female Bulkhead to N Female Bulkhead Low Loss Cable 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: N Female Bulkhead to N Female Bulkhead Low Loss Cable Using PE-P142LL Coax, RoHS PE3C1000 URL: https://www.pasternack.com/n-female-n-female-pe-p142ll-cable-assembly-pe3c1000-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.

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



## PE3C1000 CAD Drawing

N Female Bulkhead to N Female Bulkhead Low Loss Cable Using PE-P142LL Coax, RoHS