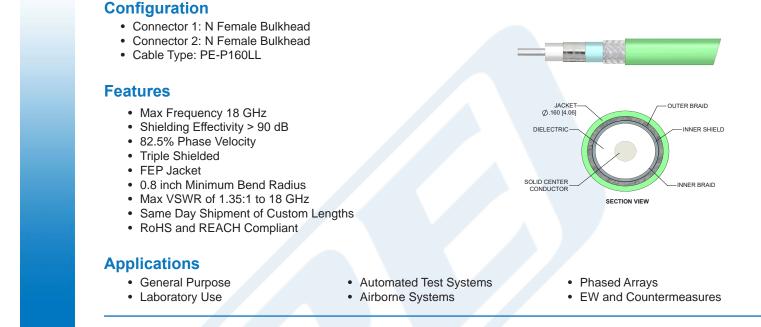




# **RF Cable Assemblies Technical Data Sheet**

# PE3C5256-100CM



### Description

The PE3C5256-100CM N Female Bulkhead to N Female Bulkhead 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 PE3C5256-100CM 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: N Female Bulkhead to N Female Bulkhead Low Loss Cable 100 CM Length Using PE-P160LL Coax PE3C5256-100CM

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





# **RF Cable Assemblies Technical Data Sheet**

### PE3C5256-100CM

### **Electrical Specifications**

Descriptior	1	Minimu	ım	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]
On selfications has Fu		_				
Specifications by Fre	equency					
Description	F1	F2	<b>F3</b>	F4	F5	Units
Frequency	1	2	4.5	9	18	GHz
Insertion Loss (Typ.)	0.41	0.58	0.89	1.28	1.85	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\*

### 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

Repeated Minimum Bend Radius

39.37 in [100 cm]

PE-P160LL 50 Ohms Solid Copper, Silver Expanded PTFE Tape 3 Silver Plated Copper Aluminum Polyester Silver Plated Copper FEP 0.16 in [4.06 mm]

0.8 in [20.32 mm]

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# **RF** Cable Assemblies Technical Data Sheet

## PE3C5256-100CM

#### Connectors

Description	Connector 1	Connector 2 N Female Bulkhead	
Туре	N Female Bulkhead		
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	
Outer Conductor Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel	
Body Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel	

### **Environmental Specifications**

**Temperature** Operating Range

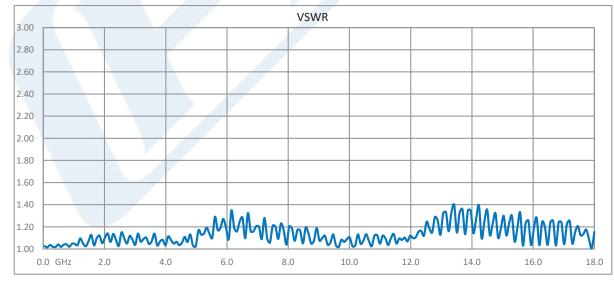
-55 to +165 deg C

Compliance Certifications (see product page for current document)

### Plotted and Other Data

Notes:

### **Typical Performance Data**



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

**INSERTION LOSS** 0.00 -0.50 multur william with with 1.00 -1.50 -2.00 -2.50 3.00 3.50 -4.00 4.50 -5.00 0.0 GHz 2.0 4.0 6.0 8.0 10.0 12.0 14.0 16.0 18.0

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### PE3C5256-100CM

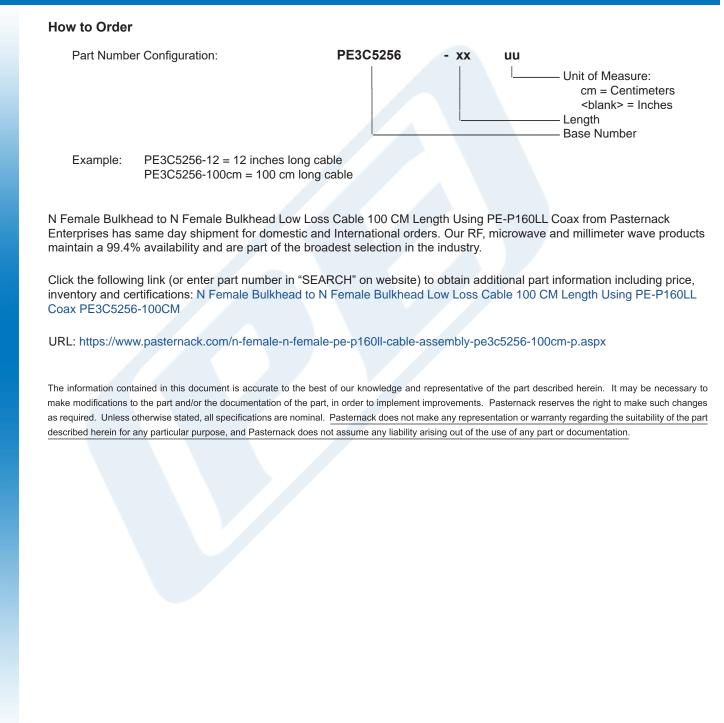
18.0





# **RF Cable Assemblies Technical Data Sheet**

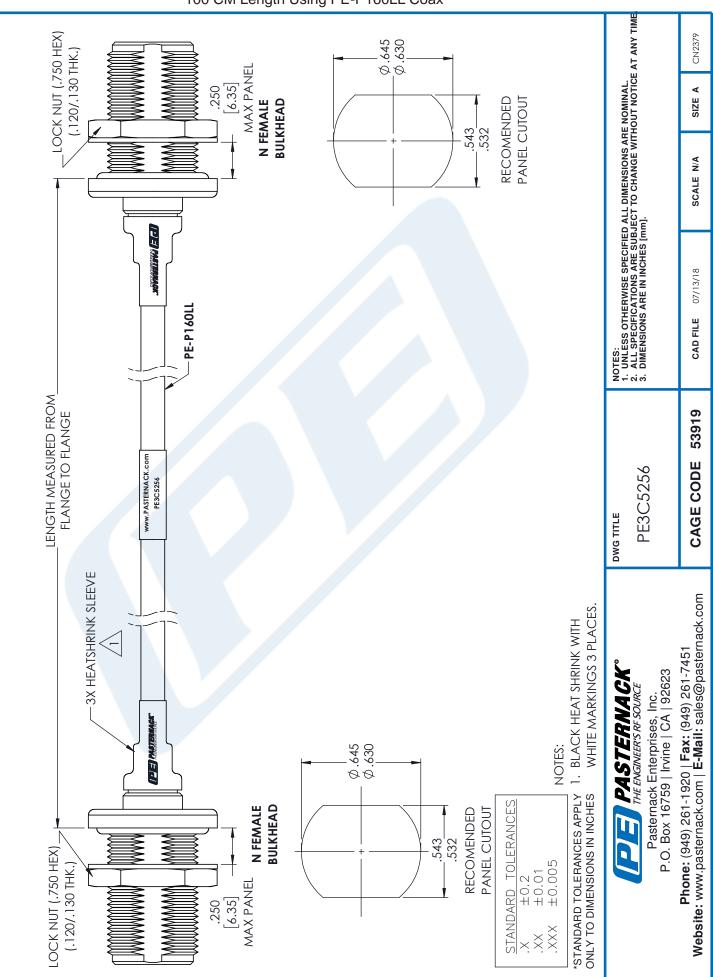
## PE3C5256-100CM



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 PE3C5256-100CM CAD Drawing

N Female Bulkhead to N Female Bulkhead Low Loss Cable

100 CM Length Using PE-P160LL Coax



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