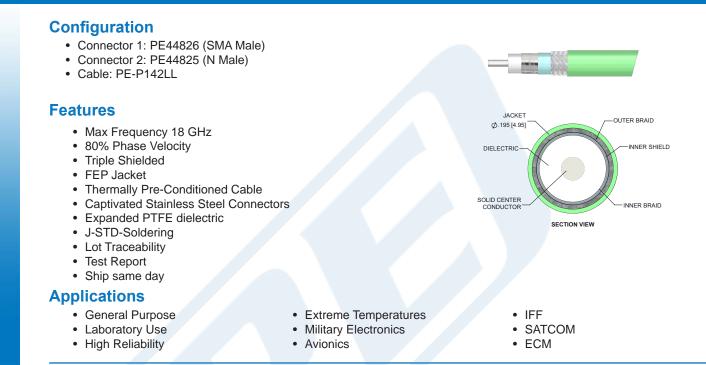




PE3M0132-300CM

# **RF Cable Assemblies Technical Data Sheet**



#### Description

Pasternack's temperature conditioned low loss cable assemblies are part of our full line of reliable RF components available for shipment same day. These commercial-off-the-shelf (COTS), RF / microwave cable assemblies are designed and processed with high reliability in mind. Captivated stainless steel cable assembly connectors and thermally pre-conditioned triple-shielded coaxial cable are assembled using J-STD soldering processes and WHMA-A-620 workmanship criteria. The combination of stable materials, processing and acceptance testing work together to create a dependable cable assembly for applications where performance over time is important or the cost of failure is high. Each finished COTS temperature conditioned low loss cable assembly is traceable to its component lots and a test report is available for every lot produced.

Our highly reliable low loss conditioned RF cable assembly datasheet specifications and drawing with dimensions are shown below in this PDF. Pasternack's broad catalog of RF, microwave and millimeter wave cable assemblies allow designers to configure and customize their signal connections however they like. Whether the need is to provide reliable stable connections or fielding dependable RF cables, Pasternack has the right cable assemblies for the job. Pasternack can also expertly build your custom cable assemblies for you and ship them same day.

IPC/WHMA-A-620	Requirements and Acceptance for Cable and Wire Harness Assemblies
MIL-STD-348	Radio Frequency Connector Interfaces for MIL-DTL-3643, MIL-DTL-3650, MIL-DTL-3655, MIL-
	DTL-25516, MIL-PRF-31031, MIL-PRF-39012, MIL-PRF-49142, MIL-PRF
IPC J-STD-001	Requirements for Soldered Electrical and Electronic Assemblies
IPC J-STD-006	Requirements for Electronic Grade Solder Alloys and Fluxed and Non-Fluxed Solid Solders for
	Electronic Soldering Applications

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Temperature Conditioned SMA Male to N Male Low Loss Cable 300 cm Length Using PE-P142LL Coax PE3M0132-300CM

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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# **RF Cable Assemblies Technical Data Sheet**

## PE3M0132-300CM

SAE AS5942 SAE AS23053 Marking of Electrical Insulating Materials Insulation Sleeving, Electrical, Heat Shrinkable, General Specifications For

#### **Material Specifications**

PPLICABLE)
PPLICABLE)
2

#### **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
VSWR			1.35:1	
Velocity of Propagation		80		%
Capacitance		25 [82.02]		pF/ft [pF/m]
Dielectric Withstanding Voltage (AC)			1,000	Vrms

#### **Specifications by Frequency**

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	4.5	9	18	GHz
Insertion Loss (Max.)	0.9	1.3	1.9	2.8	4.1	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(FGHz) dB for the SMA Male connector and 0.05\*SQRT(FGHz) dB for the N Male connector.

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#### **Mechanical Specifications**

Cable Assembly				
Description	Minimum	Typical	Maximum	Units
Length*	118.11 [300]	118.11 [300]	120.11 [305.08]	in [cm]
Cable Outer Diameter	0.19	0.195	0.2	in
Weight			0.51 [231.33]	lbs [g]
Cable Characteristics				
Description	Specif	ication		
Cable Type	PE-P	142LL		
Impedance	50 Ohms			
Inner Conductor Type	Solid			
Inner Conductor Material and Plating	Сорре	r, Silver		
Dielectric Type	Expanded	PTFE Tape		
Number of Shields	:	3		
Shield Layer 1	Silver Plated Copper Tape			
Shield Layer 2	Aluminum Polyester			
Shield Layer 3	Silver Plated Copper Wire			
Jacket Material	FE	P		

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# **RF Cable Assemblies Technical Data Sheet**

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# PE3M0132-300CM

#### **Connector Characteristics**

Description	Connector 1	Connector 2
Туре	SMA Male	N Male
Specification	MIL-STD-348	MIL-STD-348
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Beryllium Copper, Gold over Nickel	Beryllium Copper, Gold over Nickel
Contact Plating Specification	50 µin minimum	50 µin minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel
Body Plating Specification	SAE-AMS-2700	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
Seal Gasket Material	Silicone Rubber	Silicone Rubber
Contact Gage Specification	0.000 in min	0.210 in min
Insulator Gage Specification	0.000 in min	

Mechanical Specification Notes:

#### **Environmental Specifications**

Description	Specification	
Temperature Operating Range	-55 to +125 deg C	

#### Compliance Certifications (see product page for current document)

#### **Process Specifications**

Process	Specification
Cable Preconditioning	5 cycles, -55 °C to +125°C, 20 minute dwells
Soldering	in accordance with J-STD-001, class 3
Marking	shall meet the adherence requirements of SAE AS5942
Workmanship	shall be in accordance with IPC/WHMA-A-620, class 3

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# **RF Cable Assemblies Technical Data Sheet**

### PE3M0132-300CM

#### **Tests and Inspections**

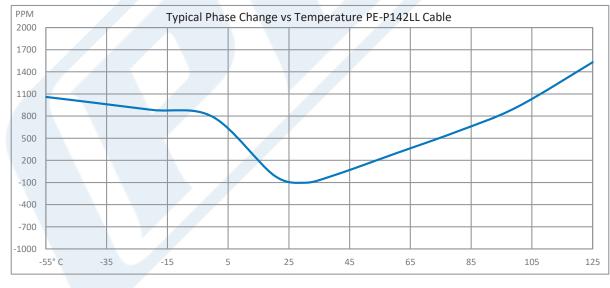
Sampling			
100%			
100%			
100%			
100%			
100%			
C=0, 1.5 AQL			
C=0, 1.5 AQL			
	100% 100% 100% 100% 100% C=0, 1.5 AQL	100% 100% 100% 100% 100% C=0, 1.5 AQL	100% 100% 100% 100% 100% C=0, 1.5 AQL

#### **Plotted and Other Data**

Notes:

• Values at 25°C, sea level.

#### **Typical Performance Data**



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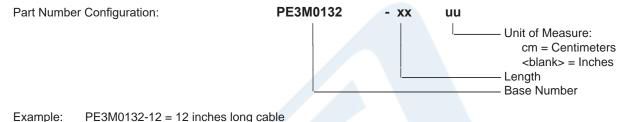




# **RF Cable Assemblies Technical Data Sheet**

## PE3M0132-300CM

#### How to Order



PE3M0132-100 cm = 100 cm long cable

Cable Assembly Length Tolerances:

Imperial English		Metric		
"L" ≤ 1 ft	+0.5 in / -0 in	"L" ≤ 0.3 m	+12.5 mm / -0 mm	
1 ft < "L" ≤ 5 ft	+1 in / -0 in	0.3 m < "L" ≤ 1.5 m	+25 mm / -0 mm	
5 ft < "L" ≤ 10 ft	+2 in / -0 in	1.5 m < "L" ≤ 3 m	+50 mm / -0 mm	
10 ft < "L" ≤ 25 ft	+3 in / -0 in	3 m < "L" ≤ 7.5 m	+75 mm / -0 mm	
25 ft < "L"	+2%"L" / -0%"L"	7.5 m < "L"	+2%"L" / -0%"L"	

\* Cable Length = "L"

Temperature Conditioned SMA Male to N Male Low Loss Cable 300 cm Length Using PE-P142LL 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/temperature-conditioned-sma-male-n-male-pe-p142ll-cable-assembly-pe3m0132-300cm-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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# PE3M0132-300CM CAD Drawing Temperature Conditioned SMA Male to N Male Low Loss

Cable 300 cm Length Using PE-P142LL Coax

