

SMA Female to N Female Bulkhead Low Loss Cable 12 Inch Length Using PE-P142LL Coax, RoHS



RF Cable Assemblies Technical Data Sheet

PE3C3159-12

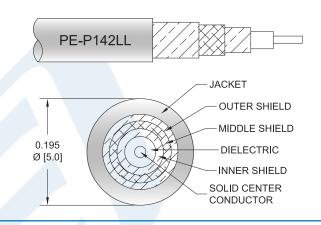
Configuration

Connector 1: SMA FemaleConnector 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 of custom lengths



Description

The PE3C3159 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 PE3C3159 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

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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: SMA Female to N Female Bulkhead Low Loss Cable 12 Inch Length Using PE-P142LL Coax, RoHS PE3C3159-12

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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.)	0.52	0.56	0.62	0.71	0.82	dB
Insertion Loss (Typ.)	0.49	0.52	0.58	0.65	0.75	dB

Mechanical Specifications

Cable Assembly

12 in [304.8 mm] Length Diameter 0.875 in [22.23 mm] 0.22 lbs [99.79 g] 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

PE-P142LL 50 Ohms Solid Copper, Silver

PTFE

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 Female	N Female Bulkhead	
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	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

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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How to Order



Example: PE3C3159-12 = 12 inches long cable PE3C3159-100cm = 100 cm long cable

SMA Female to N Female Bulkhead Low Loss Cable 12 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.

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URL: https://www.pasternack.com/sma-female-n-female-pe-p142ll-cable-assembly-pe3c3159-12-p.aspx

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PE3C3159-12 CAD DrawingSMA Female to N Female Bulkhead Low Loss Cable 12 Inch Length Using PE-P142LL Coax, RoHS

