



RF Cable Assemblies Technical Data Sheet

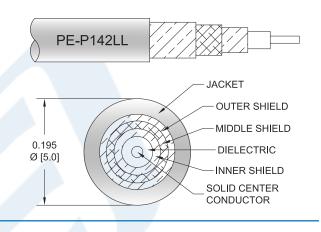
PE3C3159-100CM

Configuration

- Connector 1: SMA Female
- 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 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

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	7	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 100 cm Length Using PE-P142LL Coax, RoHS PE3C3159-100CM

ISO 9001 : 2008 Registered

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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And Departments

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Specifications by Frequency **F1** F4 Description **F2** F3 F5 Units 1 2 4.5 9 18 GHz Frequency 1.34 Insertion Loss (Max.) 0.86 1.7 dB 0.74 1.06 0.74 Insertion Loss (Typ.) 0.64 0.93 1.15 1.47 dB **Mechanical Specifications Cable Assembly** 39.37 in [100 cm] Length Diameter 0.875 in [22.23 mm] 0.308 lbs [139.71 g] Weight Cable PE-P142LL Cable Type Impedance 50 Ohms Inner Conductor Type Solid Inner Conductor Material and Plating Copper, Silver PTFE **Dielectric Type** 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 FEP, Green Jacket Diameter 0.195 in [4.95 mm] One Time Minimum Bend Radius 1 in [25.4 mm]

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Connectors

Description	Connector 1	Connector 2	
Туре	SMA Female N Female Bulkhe		
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

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.

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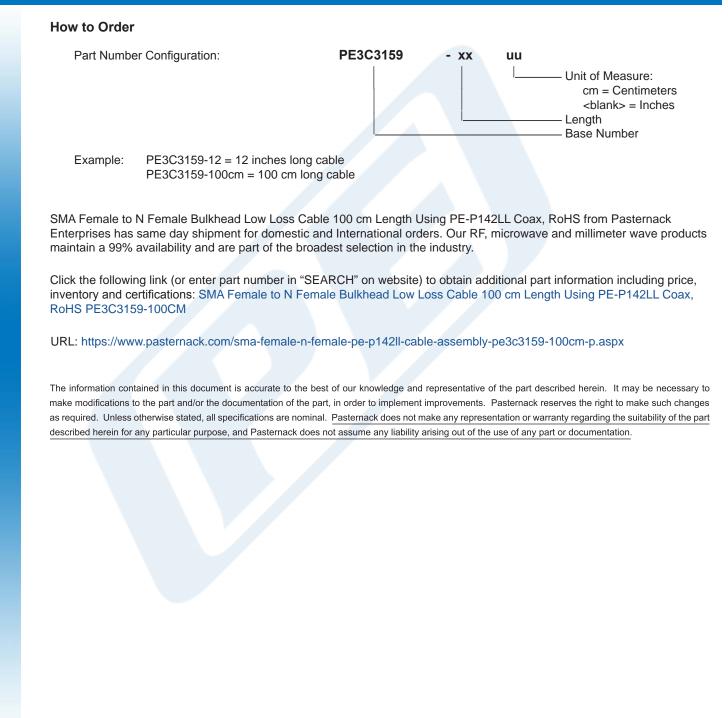
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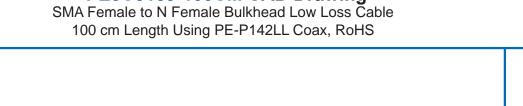
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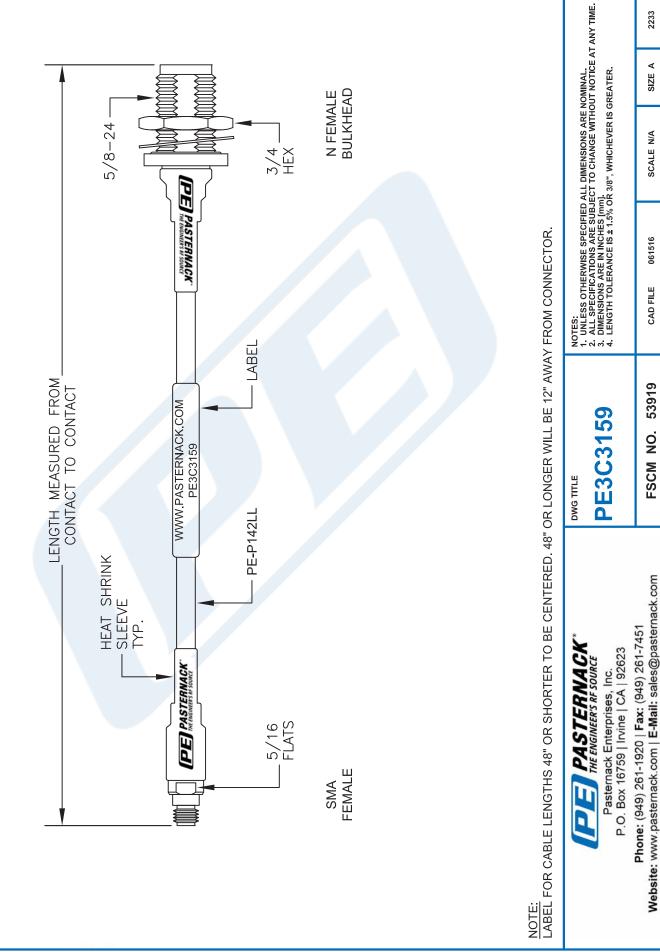




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PE3C3159-100CM CAD Drawing



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