



PE3C1425

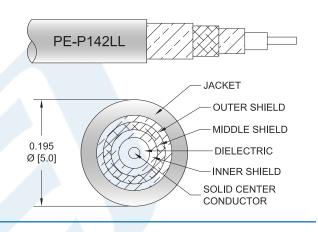
RF Cable Assemblies Technical Data Sheet

Configuration

- Connector 1: SMA Male Right Angle
- Connector 2: SMA Male Right Angle
- Cable Type: PE-P142LL

Features

- 83% Velocity of Propagation
- Shielding effectiveness > 95 dB
- Maximum VSWR is < 1.45:1 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 customs lengths



Description

The PE3C1425 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 PE3C1425 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			1.45:1	
Return Loss	14.72			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 Male Right Angle to SMA Male Right Angle Low Loss Cable Using PE-P142LL Coax, RoHS PE3C1425

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

Sales@Pasternack.com • Techsupport@Pasternack.com



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Specifications by Frequency

Description	F1	F2	F 3	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

0.63 in [16 mm] 0.032 lbs [14.51 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]

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Connectors

Description	Connector 1	Connector 2 SMA Male Right Angle	
Туре	SMA Male Right Angle		
Specification	MIL-PRF-39012	MIL-PRF-39012	
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	PTFE	
Outer Conductor Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel	
Outer Conductor 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	5/16 Inch	
Torque	8 in-lbs [0.9 Nm]	8 in-lbs [0.9 Nm]	
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 REACH Compliant Yes 12/17/2015

Plotted and Other Data

Notes:

• Values at 25°C, sea level.

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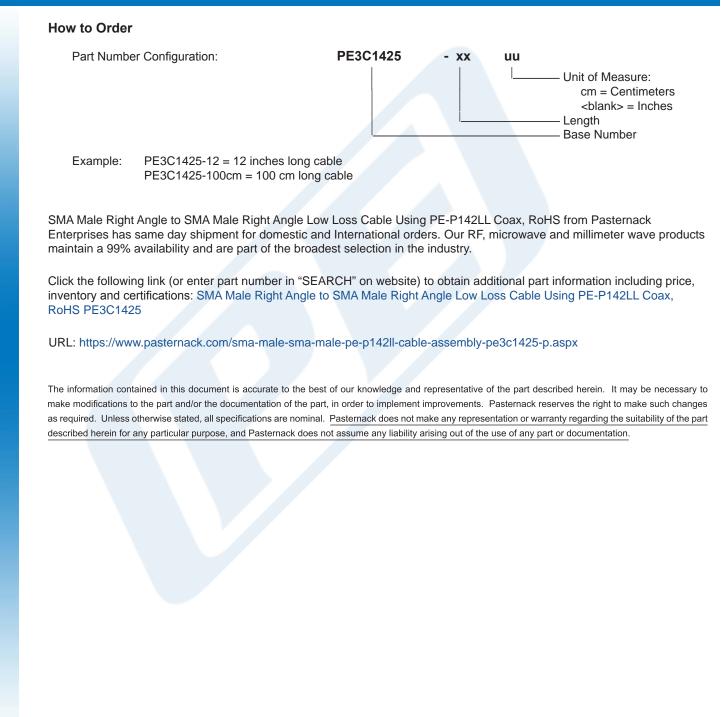
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PE3C1425 CAD Drawing SMA Male Right Angle to SMA Male Right Angle Low Loss Cable Using PE-P142LL Coax, RoHS

