



PE3C1425-50CM

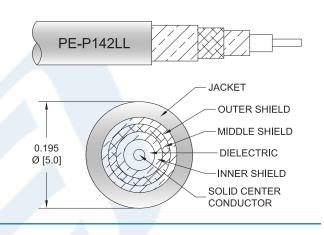
RF Cable Assemblies Technical Data Sheet

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

18 GHz
1.45:1
dB
%
dB
pF/ft [pF/m]
)2

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 50 cm Length Using PE-P142LL Coax, RoHS PE3C1425-50CM

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 **F1** F4 Description **F2** F3 F5 Units 1 2 4.5 9 18 GHz Frequency Insertion Loss (Max.) 0.64 0.74 1.06 dB 0.58 0.88 Insertion Loss (Typ.) 0.53 0.58 0.67 0.78 0.94 dB **Mechanical Specifications Cable Assembly** 19.69 in [500.13 mm] Length Diameter 0.63 in [16 mm] Cable Cable Type PE-P142LL Impedance 50 Ohms Inner Conductor Type Solid Inner Conductor Material and Plating Copper, Silver **Dielectric Type** PTFE Number of Shields З Shield Layer 1 Silver Plated Copper Tape Shield Layer 2 Aluminum Polyester Shield Layer 3 Silver Plated Copper Wire FEP. Green Jacket Material 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 Male Right Angle	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

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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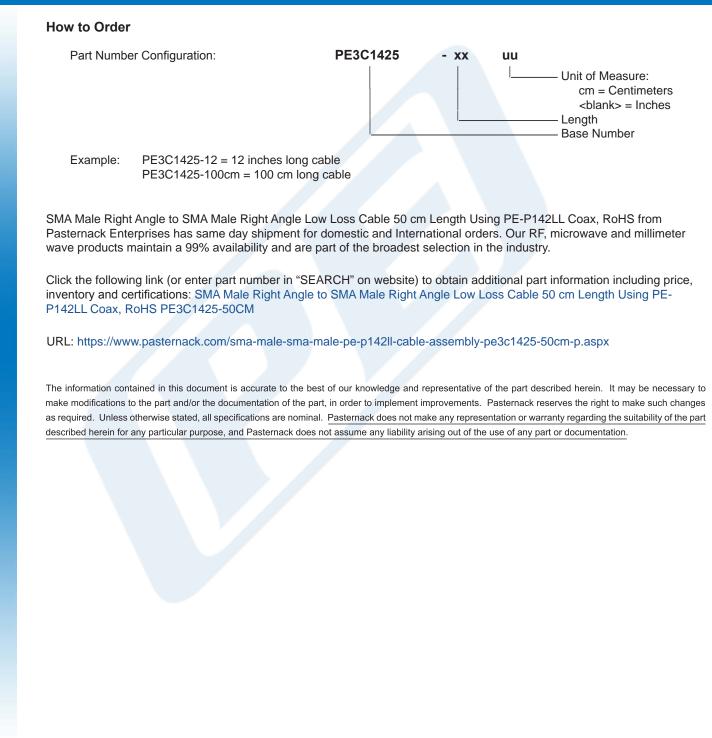
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PE3C1425-50CM CAD Drawing

SMA Male Right Angle to SMA Male Right Angle Low Loss Cable 50 cm Length Using PE-P142LL Coax, RoHS

