

SMA Male to SMA Male Cable 50 cm Length Using PE-P141 Coax with HeatShrink, LF Solder, RoHS



RF Cable Assemblies Technical Data Sheet

PE350-50CM

Configuration

Connector 1: SMA MaleConnector 2: SMA MaleCable Type: PE-P141

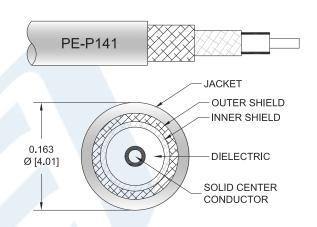
Features

- Highly durable flexible cable design with a VoP of 70%
- Thick wall SMA male connectors perform to 26.5 GHz
- Type N connectors perform to 18 GHz
- Electrical performance is equivalent to that of a solid wall 141 semi-rigid assembly
- · Shielding effectiveness in excess of 100 dB
- Operating temperature range of -55 to +125°C
- RoHS Compliant
- · Custom lengths built same-day
- 100% Continuity, Hi-Pot, and RF Tested

Applications

· General Purpose

· Laboratory Use



Description

PE-P141 high performance coax assemblies are cost effective designs, ideal for production test environments where rugged flexible cable assemblies are required. This series includes 26.5 GHz stainless steel SMA male connectors with a thick wall outer conductor designed to extend the life of the cable assemblies. A heavy-duty boot provides improved strain relief and adds to the durability of the cable assemblies. 18 GHz stainless steel type N male connectors with hex/knurl coupling nuts are also available. These cable assemblies are built using double-shielded flexible cable providing excellent shielding greater than 100 dB. All PE-P141 test cables are 100% continuity, Hi-Pot, and RF tested to the published specifications. Custom lengths are built to order and shipped the same day.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		26.5	GHz
VSWR			1.45:1	
Velocity of Propagation		70		%
RF Shielding	110			dB
Capacitance		29.4 [96.46]		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 to SMA Male Cable 50 cm Length Using PE-P141 Coax with HeatShrink, LF Solder, RoHS PE350-50CM

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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Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	3	5	10	18	26.5	GHz
Insertion Loss (Typ.)	0.33	0.43	0.66	0.96	1.24	dB
VSWR (Max.)	1.35:1	1.35:1	1.35:1	1.35:1	1.45:1	

Electrical Specification Notes:

Insertion loss does not include the loss of the connectors.

Insertion loss is estimated as 0.05 x sqrt(fGHz) dB per connector.

Short lengths up to 12" long may exhibit VSWR measurements up to 9% higher.

Amplitude variation not to exceed 10% in a coiled vs uncoiled, a coil is defined as a 4% loop.

Mechanical Specifications

Cable Assembly

Length* 19.685 in [500 mm]
Weight 0.13484 lbs [61.16 g]

Cable

Cable Type PE-P141
Impedance 50 Ohms
Inner Conductor Type Solid

Inner Conductor Material and Plating Copper Clad Steel, Silver Dielectric Type PTFE

Dielectric Type
Number of Shields
Shield Layer 1
Shield Layer 2

Shield Layer 2 Silver Plated Copper Braid Jacket Material FEP, Blue 0.163 in [4.14 mm]

Repeated Minimum Bend Radius 0.82 in [20.83 mm]

Connectors

Description	Connector 1	Connector 2	
Туре	SMA Male	SMA Male	
Impedance	50 Ohms	50 Ohms	
Body Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel	
Hex Size	5/16 inch	5/16 inch	
Torque	8 in-lbs [0.9 Nm]	8 in-lbs [0.9 Nm]	

Silver Plated Copper Tape

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Base Number

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Mechanical Specification Notes:

*All cable assemblies have a length tolerance of 1.5% or ± 3/8", whichever is greater.

Environmental Specifications

Temperature

Operating Range

-55 to +125 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

• Values at 25°C, sea level.

How to Order

Example: PE350-12 = 12 inches long cable PE350-100cm = 100 cm long cable

SMA Male to SMA Male Cable 50 cm Length Using PE-P141 Coax with HeatShrink, LF Solder, 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-male-sma-male-pe-p141-cable-assembly-pe350-50cm-p.aspx

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PE350-50CM CAD Drawing SMA Male to SMA Male Cable 50 cm Length Using PE-P141 Coax with HeatShrink, LF Solder, RoHS

