PASTERNACK
an INFINITE brand

SMA Male to SMA Male Cable 48 Inch Length Using PE-P141 Coax with HeatShrink, LF Solder, RoHS

RF Cable Assemblies Technical Data Sheet PE350-48

Configuration

- Connector 1: SMA Male
- Connector 2: SMA Male
- Cable Type: PE-P141

Features

- Max Frequency 26.5 GHz
- Shielding Effectivity > 110 dB
- 70% Phase Velocity
- Double Shielded
- FEP Jacket
- 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.

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 48 Inch Length Using PE-P141 Coax with HeatShrink, LF Solder, RoHS PE350-48

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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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]

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	3	5	10	18	26.5	GHz
Insertion Loss (Typ.)	0.8	1.04	1.6	2.32	3	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

Weight	0.168 lbs [76.2 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
Number of Shields	2
Shield Layer 1	Silver Plated Copper Tape
Shield Layer 2	Silver Plated Copper Braid
Jacket Material	FEP, Blue
Jacket Diameter	0.163 in [4.14 mm]
Repeated Minimum Bend Radius	0.82 in [20.83 mm]

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Connectors

Description	Connector 1	Connector 2
Type	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]

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.

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How to Order

Part Number Configuration:

PE350 - xx uu

- uu — Unit of Measure: cm = Centimeters, <blank> = Inches
- xx — Length
- PE350 — Base Number

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

SMA Male to SMA Male Cable 48 Inch 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 99.4% 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-pe350-48-p.aspx

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

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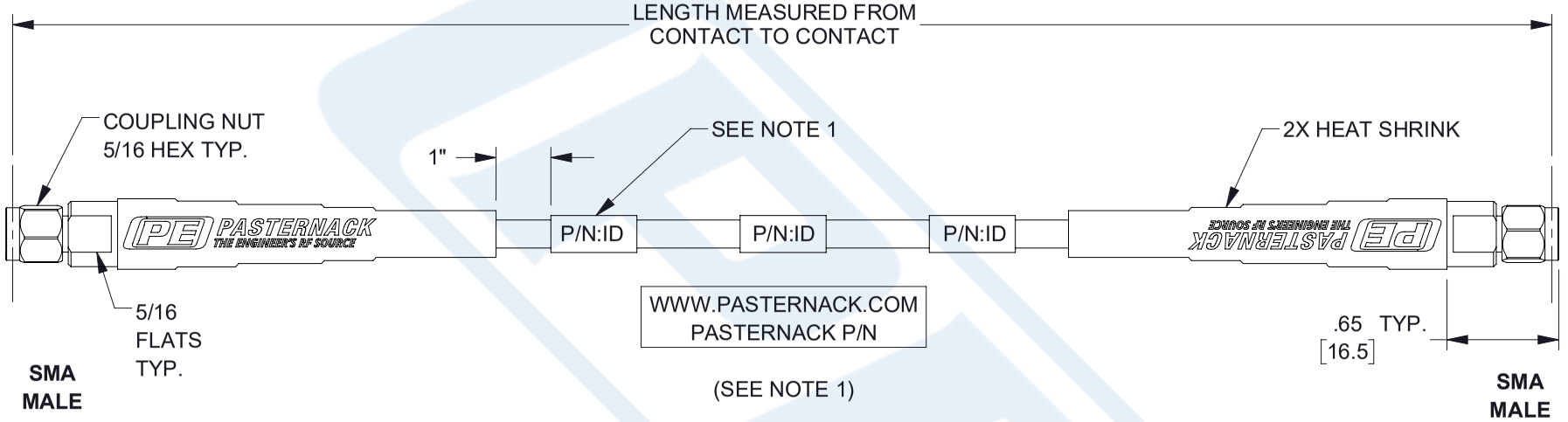
PE350-48 CAD Drawing

SMA Male to SMA Male Cable 48 Inch Length Using PE-P141 Coax with HeatShrink, LF Solder, RoHS

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
C	PCR PE350 20220613: EDITED NOTE 1, REMOVED "ONE AT EACH END 6"..."	06/21/2020	SRAUTUS



NOTES:

1. CABLES 48" AND UNDER HAVE 1 LABEL CENTERED. CABLES OVER 48" HAVE 2 LABELS.

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UNLESS OTHERWISE SPECIFIED
LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES:

.X = ± .2 [5.08] | FRACTIONS ± 1/32
.XX = ± .02 [.51] | ANGLES ± 1°
.XXX = ± .005 [.13]

CABLE LENGTH (L) TOLERANCES:

L ≤ 12 [305] = +1 [25] / -0
12 [305] < L ≤ 60 [1524] = +2 [51] / -0
60 [1524] < L ≤ 120 [3048] = +4 [102] / -0
120 [3048] < L ≤ 300 [7620] = +6 [152] / -0
300 [7620] < L = +5%L / -0

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

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THIRD-ANGLE PROJECTION

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SHEET 1 OF 1

SCALE N/A

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	53919	DMAY	PE350	C