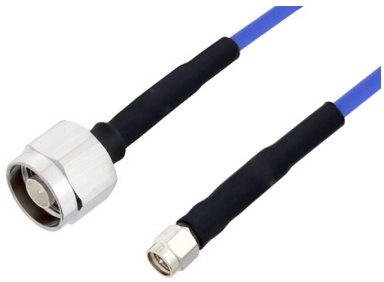
N Male to SMA Male LSZH Jacketed Low PIM Cable Using 0.141 Low PIM Coax with HeatShrink, RoHS



PE3C2006

Configuration

- Connector 1: N Male
- Connector 2: SMA Male
- Cable Type: 0.141 Low PIM
- Coax Flex Type: Formable

Features

- Max Frequency 6 GHz
- Low PIM: -150 dBc Max
- Shielding Effectivity > 100 dB
- PVC LSZH Jacket
- .141 and .250 Formable Cable
- LSZH (Low Smoke Zero Halogen) PVC Jacket
- PIM 100 dB RF Shielding
- DC to 3 GHz and DC to 6 GHz Configurations
- 100% PIM and RF Tested

Applications

- General Purpose
- Laboratory Use
- Low PIM Applications
- Communication Connectivity Requirements
- Low PIM Applications
- Test Equipment and Rack Systems
- Low PIM Lab Testing

Description

Pasternack's low PIM formable cable assemblies are built using high quality formable .141 and .250 inch filled braid coax. These low PIM cable assemblies offer excellent passive intermodulation performance of -160dBc (-150dBc for SMA versions) and are 100% RF and PIM tested at the time of production. Our low PIM cables use a protective low smoke zero halogen PVC jacket material and make it ideal for environments where safety and reliability is needed. There are 16 low PIM cable assembly configurations available including 4.1/9.5 Mini DIN, 7/16 DIN, type N and SMA series in 100cm and 200cm standard lengths.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
VSWR			1.25:1	
RF Shielding	100			dB
Passive Intermodulation IM3 (2x43dBm Tones) at 850 MHz or 1900 MHz			-150	dBc

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	2	3	6	GHz

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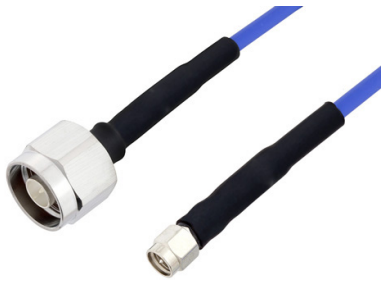

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Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Insertion Loss (Typ.)	0.083	0.125	0.183	0.229	0.332	dB/ft
	0.27	0.41	0.6	0.75	1.09	dB/m
Power Handling (Max.)	440	300	220	170	110	Watts

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.
Passive intermodulation is measured with two 20W tones at 1.8 GHz.

Mechanical Specifications

Cable Assembly

Weight	0.076 lbs [34.47 g]

Cable

Cable Type	0.141 Low PIM
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper, Silver
Dielectric Type	PTFE
Number of Shields	1
Outer Conductor 1 Material and Plating	Tinned Copper Braid
Outer Conductor Diameter	0.141 in [3.58 mm]
Jacket Material	PVC LSZH
Jacket Diameter	0.161 in [4.09 mm]
Repeated Minimum Bend Radius	1.5 in [38.1 mm]

Connectors

Description	Connector 1	Connector 2
Type	N Male	SMA Male
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Brass, Silver	Brass, Silver
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Silver	Brass, Silver
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Hex Size	3/4 inch	5/16 inch

Environmental Specifications

Operating Range Temperature	-55 to +125 deg C

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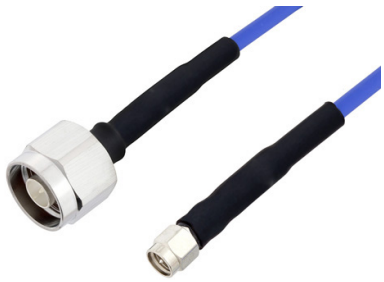

PE3C2006

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:
Values at 25°C, sea level.

Typical Performance Data

How to Order

Part Number Configuration:

PE3C2006 - xx uu

- uu — Unit of Measure:
  - cm = Centimeters
  - <blank> = Inches
- xx — Length
- PE3C2006 — Base Number

Example: PE3C2006-12 = 12 inches long cable
PE3C2006-100cm = 100 cm long cable

N Male to SMA Male LSZH Jacketed Low PIM Cable Using 0.141 Low PIM Coax with HeatShrink, 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: N Male to SMA Male LSZH Jacketed Low PIM Cable Using 0.141 Low PIM Coax with HeatShrink, RoHS PE3C2006

URL: https://www.pasternack.com/n-male-sma-male-0.141-low-pim-cable-assembly-pe3c2006-p.aspx

PE3C2006 CAD Drawing

N Male to SMA Male LSZH Jacketed Low PIM Cable Using 0.141 Low PIM Coax with HeatShrink, RoHS