



SMA Male to SMA Male LSZH Jacketed Low PIM Cable Using SR402FLJ Low PIM Coax with HeatShrink, RoHS

RF Cable Assemblies Technical Data Sheet

PE3C2008

Configuration

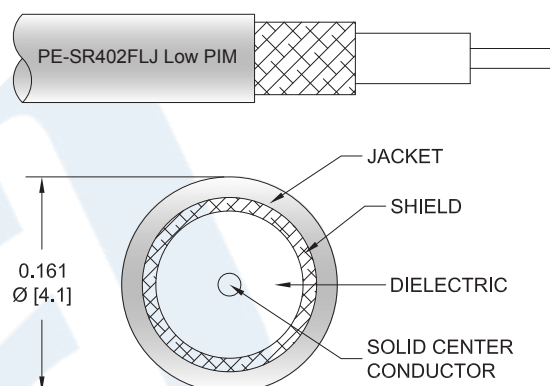
- Connector 1: SMA Male
- Connector 2: SMA Male
- Cable Type: PE-SR402FLJ Low PIM

Features

- .141 and .250 Formable Cable
- LSZH (Low Smoke Zero Halogen) PVC Jacket
- PIM < -160 dBc for type N, 4.1/9.5 DIN, 7/16 DIN version
- PIM < -150 dBc for SMA versions
- > 100 dB RF Shielding
- DC to 3 GHz and DC to 6 GHz Configurations
- 100% PIM and RF Tested

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			1.15:1	
RF Shielding	100			dB
Passive Intermodulation			-150	dBc

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 LSZH Jacketed Low PIM Cable Using SR402FLJ Low PIM Coax with HeatShrink, RoHS PE3C2008](#)



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Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	2	3	6	GHz
Insertion Loss (Typ.)	0.083 [0.27]	0.125 [0.41]	0.183 [0.6]	0.229 [0.75]	0.332 [1.09]	dB/ft [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 $0.05 \times \sqrt{f(\text{GHz})}$ dB per connector.

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

Mechanical Specifications

Cable Assembly

Weight 0.03 lbs [13.61 g]

Cable

Cable Type PE-SR402FLJ 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 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]

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Connectors

Description	Connector 1	Connector 2
Type	SMA Male	SMA Male
Impedance	50 Ohms	50 Ohms
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	5/16 inch	5/16 inch

Mechanical Specification Notes:

*All cable assemblies have a length tolerance of 1.5% or $\pm 3/8"$, 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.

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PE3C2008

How to Order

Part Number Configuration:

PE3C2008

- **xx**

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Unit of Measure:
cm = Centimeters
<blank> = Inches
Length
Base Number

Example: PE3C2008-12 = 12 inches long cable
PE3C2008-100cm = 100 cm long cable

SMA Male to SMA Male LSZH Jacketed Low PIM Cable Using SR402FLJ 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% availability and are part of the broadest selection in the industry.

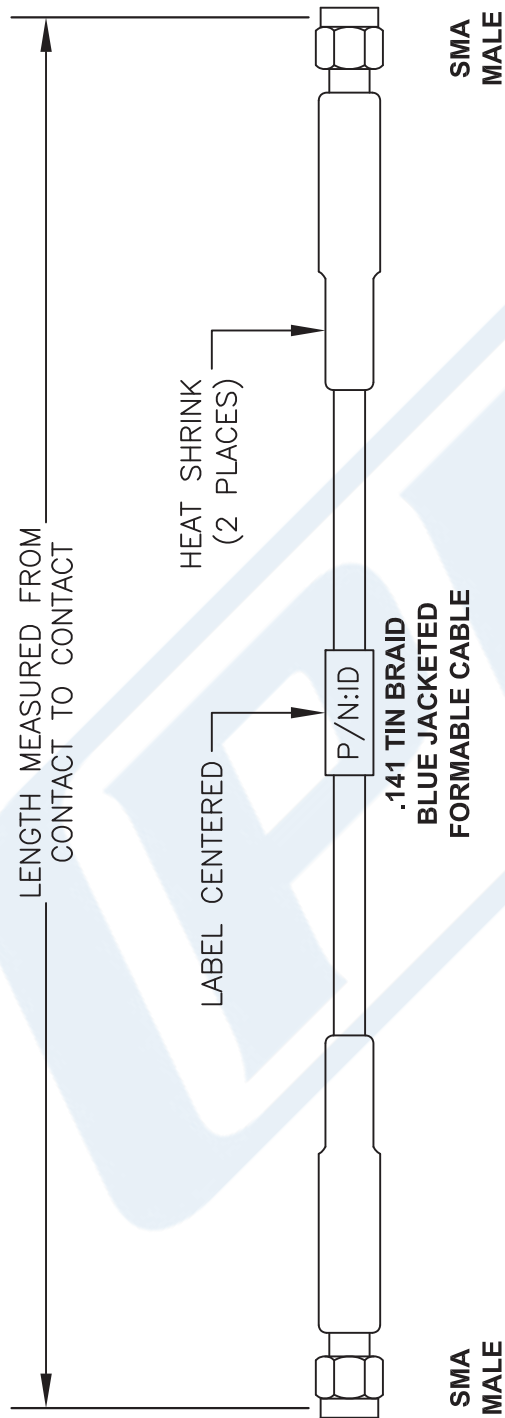
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PE3C2008 CAD Drawing

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STANDARD TOLERANCES			
.X	±0.2		
.XX	±0.1		
.XXX	±0.05		

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

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