



7/16 DIN Male to 7/16 DIN Male LSZH Jacketed Low PIM Cable Using SR401FLJ Low PIM Coax with HeatShrink, RoHS

RF Cable Assemblies Technical Data Sheet

PE3C2013

Configuration

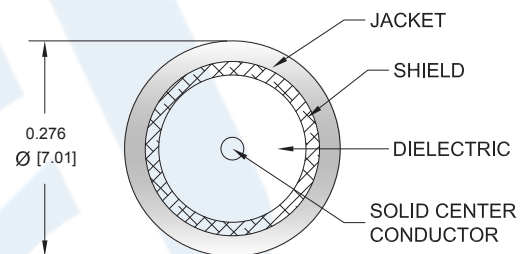
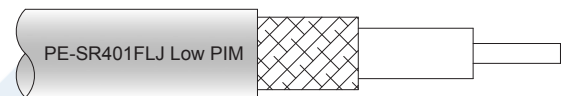
- Connector 1: 7/16 DIN Male
- Connector 2: 7/16 DIN Male
- Cable Type: PE-SR401FLJ Low PIM

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		3	GHz
VSWR			1.15:1	
RF Shielding	100			dB
Passive Intermodulation			-160	dBc

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [7/16 DIN Male to 7/16 DIN Male LSZH Jacketed Low PIM Cable Using SR401FLJ Low PIM Coax with HeatShrink, RoHS PE3C2013](#)



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Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	5			GHz
Insertion Loss (Typ.)	0.05 [0.16]	0.08 [0.26]	0.19 [0.62]			dB/ft [dB/m]
Power Handling (Max.)	2,000	1,500	600			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 0.15 lbs [68.04 g]

Cable

Cable Type PE-SR401FLJ 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 0.25 in [6.35 mm]
 Jacket Material PVC LSZH
 Jacket Diameter 0.276 in [7.01 mm]
 Repeated Minimum Bend Radius 5 in [127 mm]

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Connectors

Description	Connector 1	Connector 2
Type	7/16 DIN Male	7/16 DIN 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	1 1/4 inch	1 1/4 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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How to Order

Part Number Configuration:

PE3C2013

- **xx**

uu

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

Example: PE3C2013-12 = 12 inches long cable
PE3C2013-100cm = 100 cm long cable

7/16 DIN Male to 7/16 DIN Male LSZH Jacketed Low PIM Cable Using SR401FLJ 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [7/16 DIN Male to 7/16 DIN Male LSZH Jacketed Low PIM Cable Using SR401FLJ Low PIM Coax with HeatShrink, RoHS PE3C2013](https://www.pasternack.com/7-16-din-male-to-7-16-din-male-lszh-jacketed-low-pim-cable-using-sr401flj-low-pim-coax-with-heatshrink-rohs-pe3c2013)

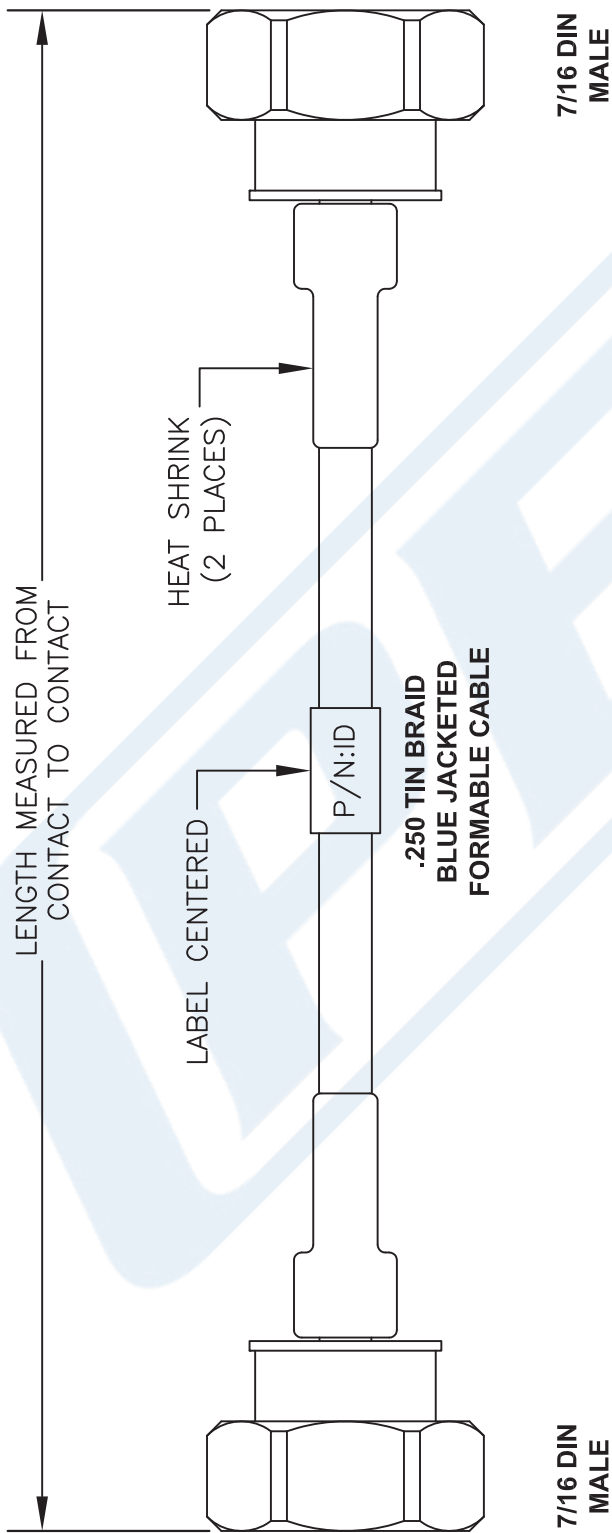
URL: <https://www.pasternack.com/7-16-male-7-16-male-sr401flj-low-pim-cable-assembly-pe3c2013-p.aspx>

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.

PE3C2013 CAD Drawing

7/16 DIN Male to 7/16 DIN Male LSZH Jacketed Low PIM Cable

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

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

NOTES: 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL. 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME. 3. DIMENSIONS ARE IN INCHES [mm].			
CAD FILE	112816	SCALE	N/A
SIZE	A		41742

DWG TITLE	PE3C2013
FSCM NO.	53919

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