

NEX10 Male to NEX10 Male Low PIM Cable Using PE-SR402FLJ Coax



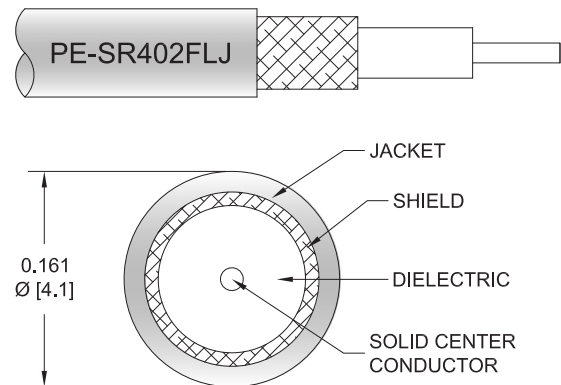
PE3C10105

Configuration

- Connector 1: NEX10 Male
- Connector 2: NEX10 Male
- Cable Type: PE-SR402FLJ
- Coax Flex Type: Formable

Features

- Max Frequency 6 GHz
- Shielding Effectivity > 110 dB
- 69.5% Phase Velocity
- FEP Jacket



Applications

- General Purpose
- Laboratory Use
- Low PIM Applications

Description

Pasternack's PE3C10105 NEX10 male to NEX10 male cable using PE-SR402FLJ coax is part of our full line of RF components available for same-day shipping. Pasternack's formable RF cable assemblies provide an alternative to costly pre-formed semi-rigid assemblies since they are hand formable. This Pasternack NEX10 to NEX10 cable assembly has a male to male gender configuration with 50 ohm formable PE-SR402FLJ coax. The PE3C10105 NEX10 male to NEX10 male cable assembly operates to 6 GHz. Our low PIM design also offers excellent passive intermodulation performance.

Custom versions of most RF cable assemblies can be built and shipped same day. Custom cable assembly lengths can be obtained by specifying the desired length on the web site at time of order or by contacting a sales representative. Other available RF cable assembly value added services include connector orientation or clocking, heat shrink booting and custom labeling. RF testing can also be performed to document the electrical performance of your cable assembly.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
VSWR			1.4:1	
Velocity of Propagation		69.5		%
RF Shielding	110			dB
Capacitance		29 [95.14]		pF/ft [pF/m]
DC Resistance Inner Conductor		7.8 [25.59]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		5.5 [18.04]		Ohms/1000ft [Ohms/Km]

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	500	1000	2500	5000	6000	MHz	
PE3C10105	Custom Lengths Available	Insertion Loss (Typ.)	0.08	0.13	0.198	0.32	0.481	dB/ft	
			0.27	0.42	0.65	1.05	1.58	dB/m	
PE3C10105-6	6 inch	Insertion Loss (Typ.)	0.25	0.27	0.3	0.36	0.45	dB	0.053
PE3C10105-9	9 inch	Insertion Loss (Typ.)	0.27	0.3	0.35	0.44	0.57	dB	0.06
PE3C10105-12	12 inch	Insertion Loss (Typ.)	0.29	0.33	0.4	0.52	0.69	dB	0.067
PE3C10105-18	18 inch	Insertion Loss (Typ.)	0.33	0.39	0.5	0.68	0.93	dB	0.082
PE3C10105-24	24 inch	Insertion Loss (Typ.)	0.37	0.45	0.6	0.84	1.17	dB	0.097

The insertion loss data for the base model does not include loss due to the connectors. Each length includes insertion loss due to the connectors.

Loss due to Connector 1:	0.1 dB
Loss due to Connector 2:	0.1 dB
Base Weight:	0.067 pounds
Additional Weight per Inch:	0.00242 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.067 lbs [30.39 g]

Cable

Cable Type	PE-SR402FLJ
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper, Silver
Dielectric Type	PTFE
Outer Conductor 1 Material and Plating	Tinned Copper Braid
Jacket Material	FEP
Jacket Diameter	0.161 in [4.09 mm]
Repeated Minimum Bend Radius	0.625 in [15.88 mm]

Connectors

Description	Connector 1	Connector 2
Type	NEX10 Male	NEX10 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

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Environmental Specifications

Operating Range Temperature

-40 to +150 deg C

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

Typical Performance Data

How to Order

Part Number Configuration:

PE3C10105

- xx

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Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE3C10105-12 = 12 inches long cable
PE3C10105-100cm = 100 cm long cable

NEX10 Male to NEX10 Male Low PIM Cable Using PE-SR402FLJ Coax 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: [NEX10 Male to NEX10 Male Low PIM Cable Using PE-SR402FLJ Coax PE3C10105](#)

URL: <https://www.pasternack.com/nex10-male-to-nex10-male-low-pim-cable-using-pe-sr402flj-pe3c10105-p.aspx>

The information contained within 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 Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

PE3C10105 CAD Drawing
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