



# **RF Cable Assemblies Technical Data Sheet**

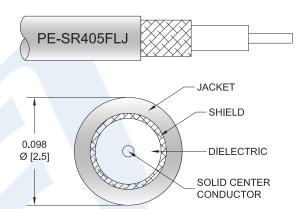
#### PE3C4450-72

## Configuration

Connector 1: BNC MaleConnector 2: SSMC PlugCable Type: PE-SR405FLJ

#### **Features**

- SSMC Cable Assembly Max. Operating Frequency of 12.4 GHz
- Small SSMC cable connection form factor (50% smaller than SMA, radially)
- · Reliable threaded coupling
- · In stock and ready to ship



# **Applications**

- SSMC Cable General Purpose Test
- Data Acquisition SystemsA/D Conversion Systems
- Ultra Wideband Digital Receivers
- Software defined radio (SDR)

### Description

Pasternack's SSMC cable assemblies are part of our full line of RF components available for same-day shipping. These SSMC cable assemblies are designed to connect SSMC system components and test connections, delivering signal frequencies as high as 12.4 GHz. Our family of SSMC cables can also be used to connect SSMC ports on data acquisition systems, A/D modules or SSMC coax patch panels. If none of our standard options fit your application, you can specify your own custom SSMC cable assembly using Pasternack's online Cable Creator.

Our SSMC cable assembly datasheet specifications and drawing with dimensions are shown below in this PDF. Pasternack's broad catalog of RF, microwave and millimeter wave cable assemblies allow designers to configure and customize their signal connections however they like. Whether the need is to provide SSMC cabling for a data acquisition system, or simply create a custom cable assembly configuration, Pasternack has the right cable assemblies for the job. Pasternack can also expertly build your custom cable assemblies for you and ship same day.

#### **Electrical Specifications**

Description	Minimum Typical		Maximum	Units	
Frequency Range	DC		4	GHz	
VSWR			1.4:1		
Velocity of Propagation		69.5		%	
RF Shielding	100			dB	
Group Delay		1.43 [4.69]		ns/ft [ns/m]	
Capacitance		29 [95.14]		pF/ft [pF/m]	
DC Resistance Inner Conductor		65.7 [215.55]		Ω/1000ft [Ω/Km]	
DC Resistance Outer Conductor		10.2 [33.46]		Ω/1000ft [Ω/Km]	

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: BNC Male to SSMC Plug Cable 72 Inch Length Using PE-SR405FLJ Coax PE3C4450-72

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Operating Voltage (AC)	250	Vrms

## **Specifications by Frequency**

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	2.5	4		GHz
Insertion Loss (Max.)	1.1	1.58	2.36	3.08		dB

#### **Mechanical Specifications**

**Cable Assembly** 

Length\* 72 in [182.88 cm] Diameter 0.57 in [14.48 mm]

Cable

Cable Type

Impedance Inner Conductor Type

Inner Conductor Material and Plating

Dielectric Type Number of Shields

Outer Conductor Material and Plating

**Jacket Material Jacket Diameter** 

One Time Minimum Bend Radius Repeated Minimum Bend Radius

PE-SR405FLJ 50 Ohms

Solid Copper Clad Steel, Silver

**PTFE** 

Tinned Copper Composite Braid

FEP, Black

0.105 in [2.67 mm]

0.5 in [12.7 mm] 0.787 in [19.99 mm]

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#### **Connectors**

Connector 1	Connector 2	
BNC Male	SSMC Plug	
MIL-STD-348A		
50 Ohms	50 Ohms	
	500	
Brass, Gold	Beryllium Copper, Gold	
30 µin minimum	MIL-G-45204	
PTFE	Teflon	
Brass, Gold	Beryllium Copper, Gold	
3 µin minimum	MIL-G-45204	
Brass, Nickel	Beryllium Copper, Gold	
100 µin minimum	MIL-G-45204	
	1.75 in-lbs [0.2 Nm]	
	BNC Male MIL-STD-348A 50 Ohms  Brass, Gold 30 µin minimum PTFE Brass, Gold 3 µin minimum Brass, Nickel	

Mechanical Specification Notes:

#### **Environmental Specifications**

Temperature

Operating Range -55 to +125 deg C

Compliance Certifications (see product page for current document)

### **Plotted and Other Data**

Notes:

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: BNC Male to SSMC Plug Cable 72 Inch Length Using PE-SR405FLJ Coax PE3C4450-72



<sup>\*</sup>All cable assemblies have a length tolerance of 1.5% or  $\pm$  3/8", whichever is greater.





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PE3C4450-72

#### **How to Order**



Example: PE3C4450-12 = 12 inches long cable PE3C4450-100cm = 100 cm long cable

BNC Male to SSMC Plug Cable 72 Inch Length Using PE-SR405FLJ 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: BNC Male to SSMC Plug Cable 72 Inch Length Using PE-SR405FLJ Coax PE3C4450-72

URL: https://www.pasternack.com/bnc-male-ssmc-plug-pe-sr405flj-cable-assembly-pe3c4450-72-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.



PE3C4450-72 CAD Drawing
BNC Male to SSMC Plug Cable 72 Inch Length Using PE-SR405FLJ Coax

