



BNC Male to SSMC Jack Bulkhead Cable Using PE-SR405FLJ Coax

RF Cable Assemblies Technical Data Sheet

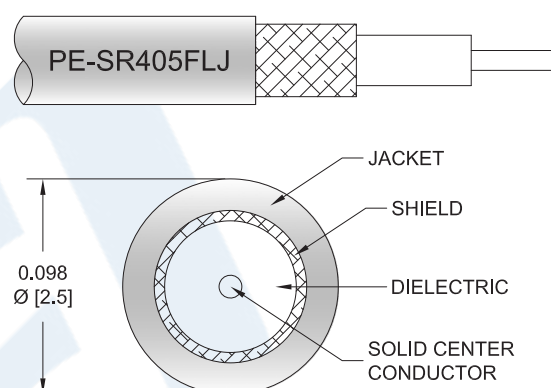
PE3C4488

Configuration

- Connector 1: BNC Male
- Connector 2: SSMC Jack Bulkhead
- Cable Type: PE-SR405FLJ

Features

- SSMC Cable Assembly Max. Operating Frequency of 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 Systems
- A/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 Jack Bulkhead Cable Using PE-SR405FLJ Coax PE3C4488](#)



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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.)	0.15	0.23	0.36	0.48		dB/ft
	0.49	0.75	1.18	1.57		dB/m
						dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB per connector.

Mechanical Specifications

Cable Assembly

Diameter 0.57 in [14.48 mm]

Cable

Cable Type PE-SR405FLJ
 Impedance 50 Ohms
 Inner Conductor Type Solid
 Inner Conductor Material and Plating Copper Clad Steel, Silver
 Dielectric Type PTFE
 Number of Shields 1
 Outer Conductor Material and Plating Tinned Copper Composite Braid
 Jacket Material FEP, Black
 Jacket Diameter 0.105 in [2.67 mm]
 One Time Minimum Bend Radius 0.5 in [12.7 mm]
 Repeated Minimum Bend Radius 0.787 in [19.99 mm]

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Connectors

Description	Connector 1	Connector 2
Type	BNC Male	SSMC Jack Bulkhead
Specification	MIL-STD-348A	
Impedance	50 Ohms	50 Ohms
Mating Cycles		500
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gold
Contact Plating Specification	30 µin minimum	MIL-G-45204
Dielectric Type	PTFE	Teflon
Outer Conductor Material and Plating		Beryllium Copper, Gold
Outer Conductor Plating Specification		MIL-G-45204
Body Material and Plating	Brass, Gold	Beryllium Copper, Gold
Body Plating Specification	3 µin minimum	MIL-G-45204
Coupling Nut Material and Plating	Brass, Nickel	
Coupling Nut Plating Specification	100 µin minimum	
Torque		1.75 in-lbs [0.2 Nm]

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

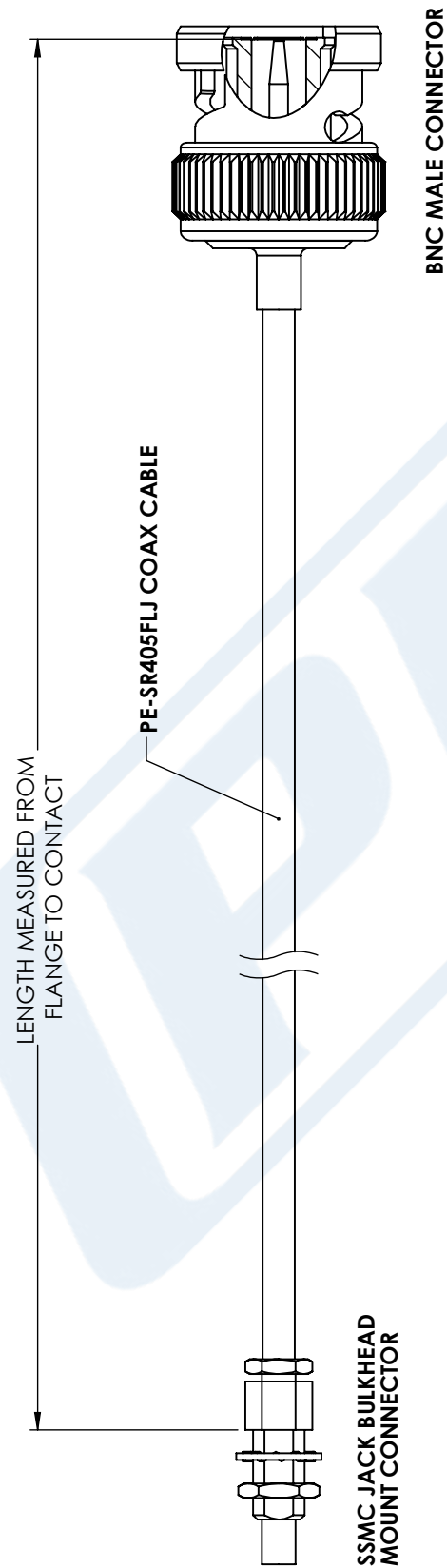
Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

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PE3C4488



STANDARD TOLERANCES	
.X	±0.2
.XX	±0.01
.XXX	±0.005

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

<div><div><div><div><div><div>PE</div></div></div><div><div><div>PASTERNAK®</div><div>THE ENGINEER'S RF SOURCE</div></div></div><div><div>Pasternack Enterprises, Inc.</div><div>P.O. Box 16759 Irvine CA 92623</div><div>Phone: (949) 261-1920 Fax: (949) 261-7451</div><div>Website: www.pasternack.com E-Mail: sales@pasternack.com</div></div></div></div></div>		DWG TITLE PE3C4488		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].	
CAGE CODE 53919		CAD FILE 09/13/17	SCALE N/A	SIZE A	CN2245