

SMA Female Bulkhead to SSMC Plug Cable Using PE-P086 Coax

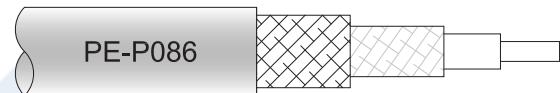


RF Cable Assemblies Technical Data Sheet

PE3C6292

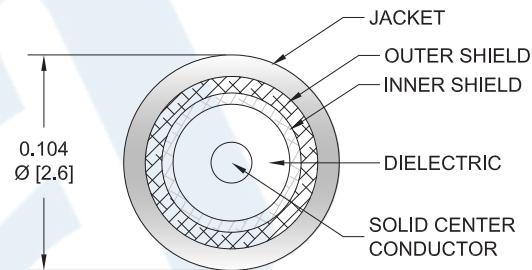
Configuration

- Connector 1: SMA Female Bulkhead
- Connector 2: SSMC Plug
- Cable Type: PE-P086



Features

- Max Frequency 12.4 GHz
- Shielding Effectivity > 110 dB
- 70% Phase Velocity
- Double Shielded
- FEP Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C6292 SMA female bulkhead to SSMC plug cable using PE-P086 coax is part of our full line of RF components available for same-day shipping. Pasternack's flexible RF cable assemblies are ideal for applications where tight bends and flexure are required. This Pasternack SMA to SSMC cable assembly has a female to plug gender configuration with 50 ohm flexible PE-P086 coax. The PE3C6292 SMA female to SSMC plug cable assembly operates to 12.4 GHz. Our RF cable assembly with SMA bulkhead interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness of better than 110 dB.

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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Female Bulkhead to SSMC Plug Cable Using PE-P086 Coax PE3C6292](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		12.4	GHz
VSWR			1.4:1	
Velocity of Propagation		70		%
RF Shielding	110			dB
Capacitance		29.4 [96.46]		pF/ft [pF/m]

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2.5	5	12.4		GHz
Insertion Loss (Typ.)	0.192	0.307	0.457	0.757		dB/ft
	0.63	1.01	1.5	2.48		dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB for the SMA female connector and 0.3 dB for the SSMC plug connector.

Mechanical Specifications

Cable Assembly

Weight	0.033 lbs [14.97 g]
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Cable

Cable Type	PE-P086
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper Clad Steel, Silver
Dielectric Type	PTFE
Number of Shields	2
Shield Layer 1	Silver Plated Copper Tape
Shield Layer 2	Silver Plated Copper Braid
Jacket Material	FEP, Blue
Jacket Diameter	0.104 in [2.64 mm]

Repeated Minimum Bend Radius	0.5 in [12.7 mm]
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Connectors

Description	Connector 1	Connector 2
Type	SMA Female Bulkhead	SSMC Plug
Specification	MIL-STD-348A	
Impedance	50 Ohms	50 Ohms
Mating Cycles		500
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Contact Plating Specification	50 μ in minimum	MIL-G-45204
Dielectric Type	PTFE	Teflon
Body Material and Plating	Stainless Steel, Gold	Beryllium Copper, Gold
Body Plating Specification	30 μ in minimum	MIL-G-45204
Coupling Nut Material and Plating		Beryllium Copper, Gold
Coupling Nut Plating Specification		MIL-G-45204
Torque		1.75 in-lbs [0.2 Nm]

Environmental Specifications
Temperature

Operating Range

-55 to +165 deg C

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

Plotted and Other Data

Notes:

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SMA Female Bulkhead to SSMC Plug Cable Using PE-P086 Coax

RF Cable Assemblies Technical Data Sheet

PE3C6292

How to Order

Part Number Configuration:

PE3C6292

- **xx**

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

Example: PE3C6292-12 = 12 inches long cable
PE3C6292-100cm = 100 cm long cable

SMA Female Bulkhead to SSMC Plug Cable Using PE-P086 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.

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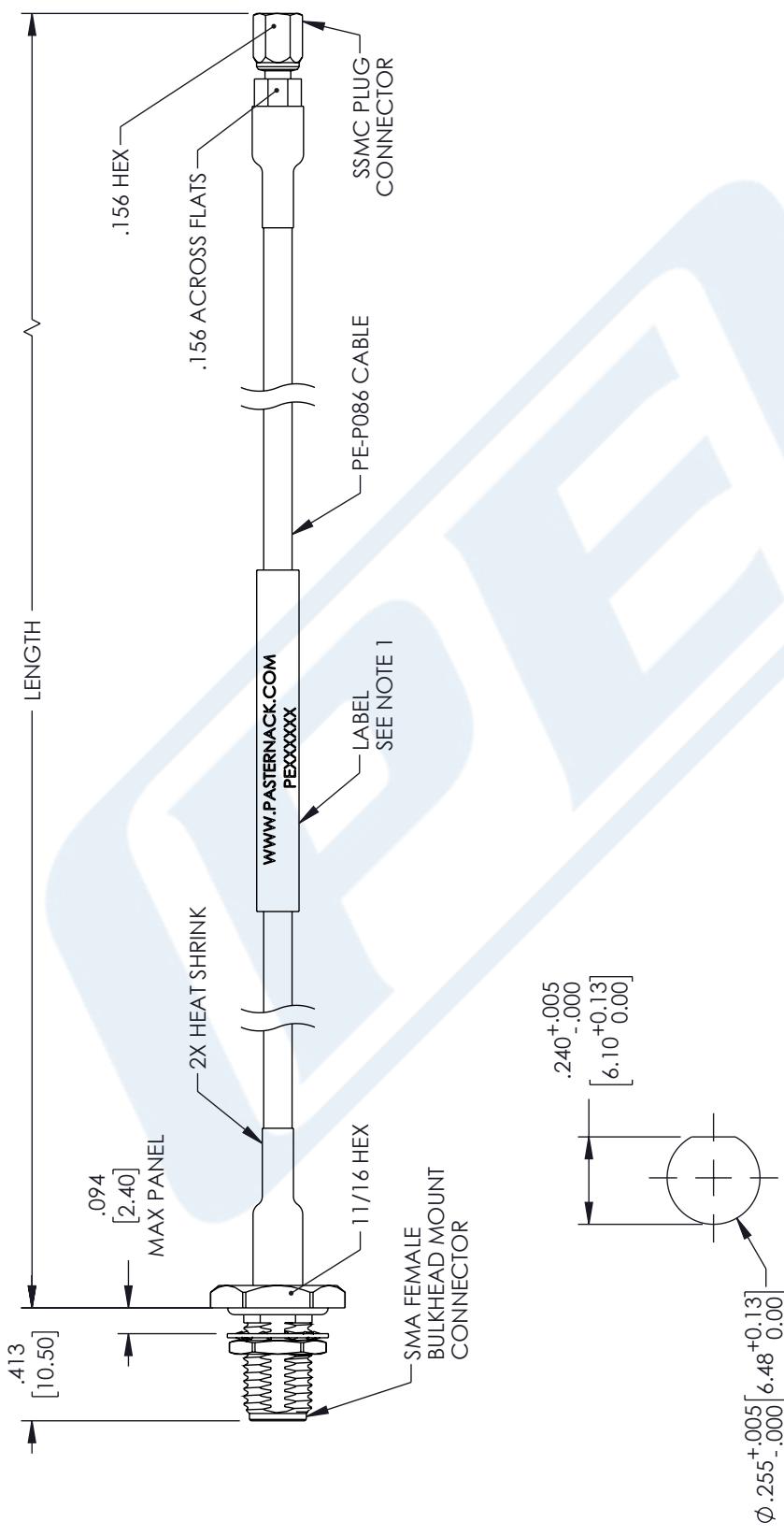
URL: <https://www.pasternack.com/sma-female-bulkhead-to-ssmc-plug-cable-using-pe-p086-pe3c6292-p.aspx>

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PE3C6292 CAD Drawing

SMA Female Bulkhead to SSMC Plug Cable Using PE-P086 Coax

ZONE	REV.	DESCRIPTION	DATE	CHANGED BY	APPROVED BY
	A	INITIAL RELEASE	02/10/2023	KGLEBOVA	AGANWANI



NOTES:

1. CABLE ASSEMBLY LENGTH LABEL PLACEMENT:
36 INCHES OR LESS, ONE LABEL APPROXIMATELY CENTERED.
LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY 6
INCHES FROM EACH CONNECTOR.
CABLES ASSEMBLIES SHALL BE TESTED FOR CONTINUITY
 - 2.

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UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS	TOLERANCES:	$X = \pm .2$ [5] $XX = \pm .02$ [5] $XXX = \pm .005$ [1.3]	FRACTIONS $\pm 1/32$ ANGLES $\pm 1^\circ$ CABLE LENGTH TOLERANCES: $\leq 12 [305] \leq 12 [325] = +1$ $> 12 [305] \leq 80 [1524] = +2 [51] - 0$ $> 60 [1524] \leq 120 [3048] = +4 [102] - 0$ $> 120 [3048] \leq 300 [7620] = +6 [152] - 0$ $> 300 [7620] = +5\% - 0$
ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE.	DESCRIPTION	SIZE	REV
ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE.	SMA FEMALE BULKHEAD TO SSMC PLUG CABLE USING PE- P086 COAX	CAGE CODE	A
		ITEM NO.	PE3C6292
		DRAWN BY	KGLEBOVA
		SCALE	NONE
		SHEET	1 OF 1