PASTERNACK
an INFINITE brand

2.4mm Male to SMA Female Cable Using PE-P086 Coax

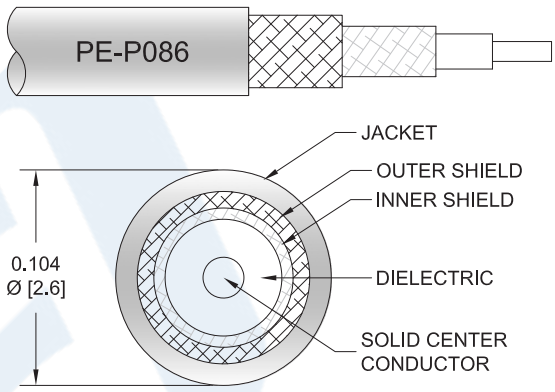
TECHNICAL DATA SHEET PE3C7405

Configuration

- Connector 1: 2.4mm Male
- Connector 2: SMA Female
- Cable Type: PE-P086
- Coax Flex Type: Flexible

Features

- Max Frequency 18 GHz
- Shielding Effectivity > 110 dB
- 70% Phase Velocity
- Double Shielded
- FEP Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C7405 2.4mm male to SMA female 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 2.4mm to SMA cable assembly has a male to female gender configuration with 50 ohm flexible PE-P086 coax. The PE3C7405 2.4mm male to SMA female cable assembly operates to 18 GHz. 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: 2.4mm Male to SMA Female Cable Using PE-P086 Coax PE3C7405

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
Phone: (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451
Sales@Pasternack.com • Techsupport@Pasternack.com

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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	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

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	1000	2000	4500	9000	18000	MHz	
PE3C7405	Custom Lengths Available	Insertion Loss (Typ.)	0.21	0.31	0.47	0.695	1.046	dB/ft	
			0.69	1.02	1.55	2.29	3.44	dB/m	
PE3C7405-6	6 inch	Insertion Loss (Typ.)	0.26	0.33	0.45	0.6	0.84	dB	0.562
PE3C7405-12	12 inch	Insertion Loss (Typ.)	0.36	0.49	0.68	0.95	1.36	dB	0.568
PE3C7405-24	24 inch	Insertion Loss (Typ.)	0.57	0.8	1.15	1.64	2.41	dB	0.582
PE3C7405-36	36 inch	Insertion Loss (Typ.)	0.78	1.11	1.62	2.34	3.46	dB	0.595
PE3C7405-48	48 inch	Insertion Loss (Typ.)	0.99	1.42	2.09	3.03	4.5	dB	0.608

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:	0.05*SQRT(FGHz)	dB
Loss due to Connector 2:	0.1	dB
Base Weight:	0.568	pounds
Additional Weight per Inch:	0.00109	pounds

Mechanical Specifications

Cable Assembly

Weight	0.568 lbs [257.64 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]

Connectors

Description	Connector 1	Connector 2
Type	2.4mm Male Threaded	SMA Female Threaded
Impedance	50 Ohms	50 Ohms
Mating Cycles	500	
Contact Material and Plating	Beryllium Copper, Gold over Nickel	Beryllium Copper, Gold over Nickel
Contact Plating Specification	MIL-G-45204	
Dielectric Type	PPO	PTFE
Body Material and Plating	Passivated Stainless Steel	Brass, Gold over Nickel
Body Plating Specification	ASTM-A380	
Coupling Nut Material and Plating	Passivated Stainless Steel	
Coupling Nut Plating Specification	ASTM-A380	
Hex Size	5/16 inch	
Torque	8 in-lbs [0.9 Nm]	

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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How to Order

Part Number Configuration: **PE3C7405 - xx uu**

- uu — Unit of Measure: cm = Centimeters, <blank> = Inches
- xx — Length
- PE3C7405 — Base Number

Example: PE3C7405-12 = 12 inches long cable
PE3C7405-100cm = 100 cm long cable

2.4mm Male to SMA Female 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.

Click the following link (or enter part number in “SEARCH” on website) to obtain additional part information including price, inventory and certifications: 2.4mm Male to SMA Female Cable Using PE-P086 Coax PE3C7405

URL: https://www.pasternack.com/2.4mm-male-to-sma-female-cable-using-pe-p086-pe3c7405-p.aspx

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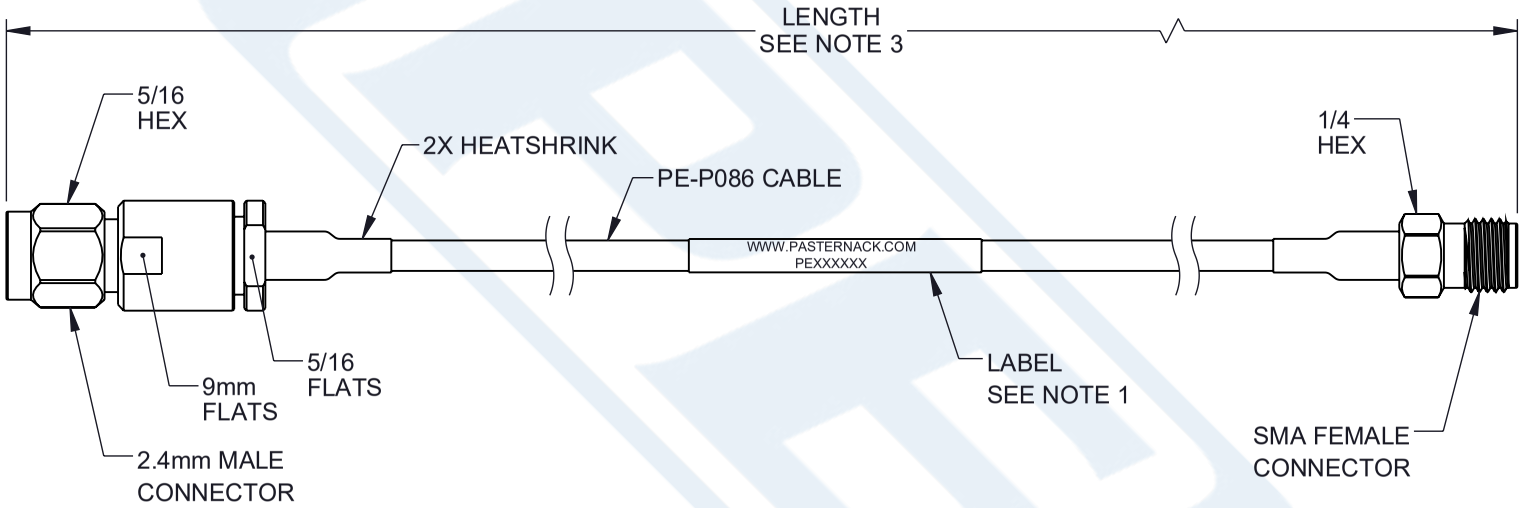
REVISION					
ZONE	REV.	DESCRIPTION	DATE	CHANGED BY	APPROVED BY
	A	INITIAL RELEASE	11/16/2023	BPUCHASKI	AGANWANI



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.
2. CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
3. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION

UNLESS OTHERWISE SPECIFIED
LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES:

.X = ±.2 [5] .XX = ±.02 [0.5] .XXX = ±.005 [0.13]	FRACTIONS ± 1/32 ANGLES ± 1°

CABLE LENGTH TOLERANCES:
≤12 [305] = +1 [25] / -0
>12 [305] ≤ 60 [1524] = +2 [51] / -0
>60 [1524] ≤ 120 [3048] = +4 [102] / -0
>120 [3048] ≤ 300 [7620] = +6 [152] / -0
>300 [7620] = +5% / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE. UN-DIMENSIONED/NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION
COLORS MAY VARY

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INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE	SHEET
NONE	1 OF 1

DESCRIPTION
2.4mm MALE TO SMA FEMALE CABLE USING PE-P086 COAX

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	53919	BPUCHASKI	PE3C7405	A

PE3C7405 REV 1.0

PE DS Rev-D4 Asize

PE3C7405 CAD Drawing
2.4mm Male to SMA Female Cable Using PE-P086 Coax