



2.4mm Male to SMA Male Right Angle Cable Using PE-SR405FL Coax

RF Cable Assemblies Technical Data Sheet

PE3W07990

Configuration

- Connector 1: 2.4mm Male
- Connector 2: SMA Male Right Angle
- Cable Type: PE-SR405FL

Features

- Max Frequency 10 GHz
- 69.5% Phase Velocity

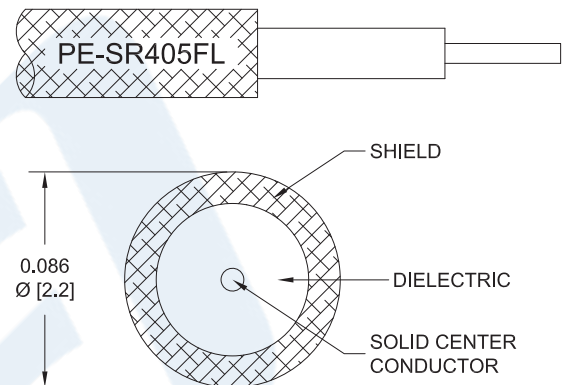
Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W07990 2.4mm male to SMA male right angle cable using PE-SR405FL 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 2.4mm to SMA cable assembly has a male to male gender configuration with 50 ohm formable PE-SR405FL coax. The PE3W07990 2.4mm male to SMA male cable assembly operates to 10 GHz. The right angle SMA interface on the PE-SR405FL cable allows for easier connections in tight spaces.

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 Male Right Angle Cable Using PE-SR405FL Coax PE3W07990](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		10	GHz
VSWR			1.4:1	
Velocity of Propagation		69.5		%
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]

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	2.5	5	10	GHz
Insertion Loss (Max.)	0.15	0.225	0.347	0.549	0.812	dB/ft
	0.49	0.74	1.14	1.8	2.66	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as $0.05 \cdot \text{SQRT}(\text{FGHz})$ dB per 2.4mm male connector and 0.2 dB per SMA male right angle connector.

Mechanical Specifications

Cable Assembly

Diameter 0.315 in [8 mm]

Cable

Cable Type PE-SR405FL
 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 Copper, Tin

Repeated Minimum Bend Radius 0.78 in [19.81 mm]

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Connectors

Description	Connector 1	Connector 2
Type	2.4mm Male	SMA Male Right Angle
Impedance	50 Ohms	50 Ohms
Mating Cycles	500	
Contact Material and Plating	Beryllium Copper, Gold over Nickel	Brass, Gold over Nickel
Contact Plating Specification	MIL-G-45204	0.2 µin minimum
Dielectric Type	PPO	PTFE
Outer Conductor Material and Plating	Beryllium Copper, Gold over Nickel	Brass, Gold over Nickel
Body Material and Plating	Passivated Stainless Steel	Brass, Gold over Nickel
Body Plating Specification	ASTM-A380	0.1 µin minimum
Coupling Nut Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel
Coupling Nut Plating Specification	ASTM-A380	
Hex Size	5/16 inch	5/16 inch
Torque	8 in-lbs [0.9 Nm]	8 in-lbs [0.9 Nm]

Environmental Specifications

Temperature

Operating Range -55 to +100 deg C

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

Plotted and Other Data

Notes:

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RF Cable Assemblies Technical Data Sheet

PE3W07990

How to Order

Part Number Configuration:

PE3W07990

- **xx**

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

Example: PE3W07990-12 = 12 inches long cable
PE3W07990-100cm = 100 cm long cable

2.4mm Male to SMA Male Right Angle Cable Using PE-SR405FL 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 Male Right Angle Cable Using PE-SR405FL Coax PE3W07990](https://www.pasternack.com/2.4mm-male-sma-male-pe-sr405fl-cable-assembly-pe3w07990-p.aspx)

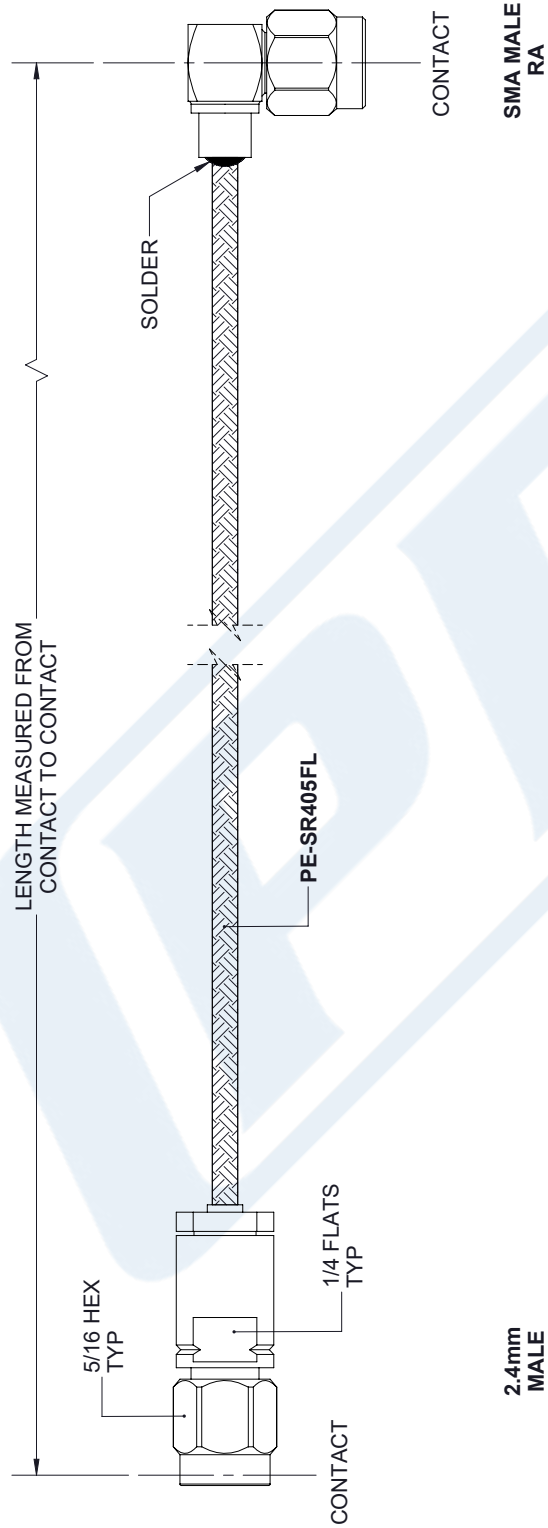
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The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. 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.

PE3W07990 CAD Drawing

2.4mm Male to SMA Male Right Angle Cable Using PE-SR405FL Coax

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	1/22/2020	S. ELLIS



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

TOLERANCES:

.X = ±.2	[.08]	FRACTIONS
.XX = ±.02	[.51]	± 1/32
.XXX = ±.005	[.13]	ANGLES ± 1°

CABLE LENGTH (L) TOLERANCES:

L ≤ 12	[305]	= +1 [25] / -0
12 [305] < L ≤ 60	[1524]	= +2 [51] / -0
60 [1524] < L ≤ 120	[3048]	= +4 [102] / -0
120 [3048] < L ≤ 300	[7620]	= +6 [152] / -0
300 [7620] < L ≤ ∞		= +5% / L / -0

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

PE PASTERNAK
an INFINITI brand

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THIRD-ANGLE PROJECTION

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SHEET 1 OF 1
SCALE N/A

SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	53919	K. DANG	PE3W07990
REV			A

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