



Mini SMP Female to SMA Male Cable Using PE-SR405FL Coax

RF Cable Assemblies Technical Data Sheet

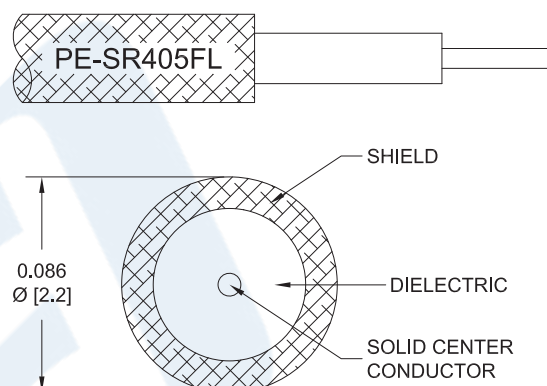
PE3W09579

Configuration

- Connector 1: Mini SMP Female
- Connector 2: SMA Male
- Cable Type: PE-SR405FL

Features

- Max Frequency 20 GHz
- 69.5% Phase Velocity



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W09579 Mini SMP female to SMA male 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 Mini SMP to SMA cable assembly has a female to male gender configuration with 50 ohm formable PE-SR405FL coax. The PE3W09579 Mini SMP female to SMA male cable assembly operates to 20 GHz.

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: [Mini SMP Female to SMA Male Cable Using PE-SR405FL Coax PE3W09579](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		20	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	1	2	4.5	9	20	GHz
Insertion Loss (Typ.)	0.225	0.306	0.508	0.759	1.2	dB/ft
	0.74	1	1.67	2.49	3.94	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as $0.05 \times \sqrt{\text{FGHz}}$ dB for the Mini SMP Female straight connector and $0.04 \times \sqrt{\text{FGHz}}$ dB for the SMA Male straight connector.

Mechanical Specifications

Cable Assembly

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	Mini SMP Female	SMA Male
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		ASTM-B488
Dielectric Type	PTFE	PTFE
Body Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Body Plating Specification		ASTM-B488
Coupling Nut Material and Plating		Steel
Torque		7 in-lbs [0.79 Nm]

Mechanical Specification Notes:

Mating Cycles: 500 (smooth bore), 100 (full detent) minimum

Environmental Specifications

Humidity

Shock

Vibration

Thermal Shock

MIL-STD-202, Method 106

MIL-STD-202, Method 213, Condition A

MIL-STD-202, Method 204, Condition A

MIL-STD-202, Method 107, Condition B

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

Plotted and Other Data

Notes:

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How to Order

Part Number Configuration:

PE3W09579

- **xx**

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

Example: PE3W09579-12 = 12 inches long cable
PE3W09579-100cm = 100 cm long cable

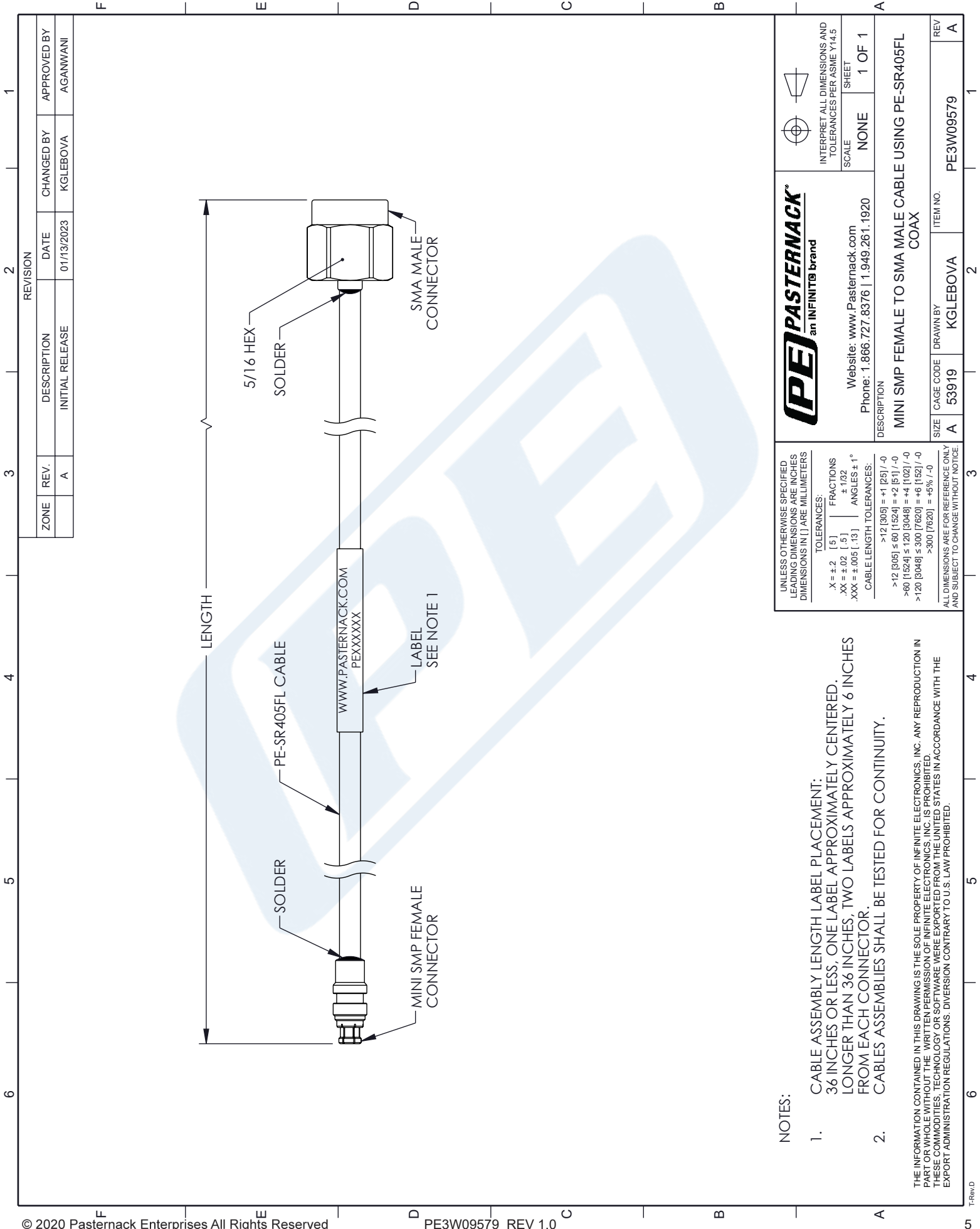
Mini SMP Female to SMA Male Cable Using PE-SR405FL Coax from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Mini SMP Female to SMA Male Cable Using PE-SR405FL Coax PE3W09579](#)

URL: <https://www.pasternack.com/mini-smp-female-to-sma-male-cable-using-pe-sr405fl-pe3w09579-p.aspx>

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PE3W09579 CAD Drawing
Mini SMP Female to SMA Male Cable Using PE-SR405FL Coax



NOTES:

- 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.

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

TOLERANCES:
X = ±.2 [5] FRACTIONS
.XX = ±.02 [.5] ±.1/32
.XXX = ±.005 [.13] 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.

INTERPRET ALL DIMENSIONS AND
TOLERANCES PER ASME Y14.5

SCALE NONE SHEET 1 OF 1

DESCRIPTION
MINI SMP FEMALE TO SMA MALE CABLE USING PE-SR405FL
COAX

SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	53919	KGLEBOVA	PE3W09579

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