

RP SMA Male Connector Solder Attachment for PE-SR405AL, PE-SR405FL, RG405 Cable



PE45810

Configuration

- SMA Male Reverse Polarity Connector
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: PE-SR405AL, PE-SR405FL, RG405
- 5/16 in. Hex

Features

- Max. Operating Frequency 18 GHz
- Excellent VSWR of 1.25:1
- Gold Plated Brass Contact
- Contact plating according to MIL-G-45204
- Reverse Polarity

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE45810, SMA, Standard, Connector is part of our full line of RF components available for same-day shipping. The male reverse polarity configuration uses a male connector body with a female inner contact receptacle. Our SMA male connector operates up to a maximum frequency of 18 GHz and offers excellent VSWR of 1.25:1.

Our reverse polarity SMA male connector PE45810 datasheet specifications and drawing with dimensions are shown below in this PDF. Pasternack's broad catalog of RF, microwave and millimeter wave connectors allows designers to configure and customize their signal connections however they like. Whether the need is to provide an I/O for a board design, or simply create a custom cable assembly configuration, Pasternack has the right connector 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		18	GHz
VSWR			1.25:1	
Impedance		50		Ohms

Mechanical Specifications

Size

Length	0.496 in [12.6 mm]
Width	0.313 in [7.95 mm]
Height	0.313 in [7.95 mm]
Weight	0.5 lbs [226.8 g]
Mating Torque	5 in-lbs [[0.57 Nm]]

Material Specifications

Description	Material	Plating
Contact	Brass	Gold MIL-G-45204
Insulation	PTFE	
Body	Stainless Steel	Gold
Coupling Nut	Stainless Steel	Gold

RP SMA Male Connector Solder Attachment for PE-SR405AL, PE-SR405FL, RG405 Cable

PE45810



Environmental Specifications

Temperature

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

Plotted and Other Data

Notes:

RP SMA Male Connector Solder Attachment for PE-SR405AL, PE-SR405FL, RG405 Cable 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.

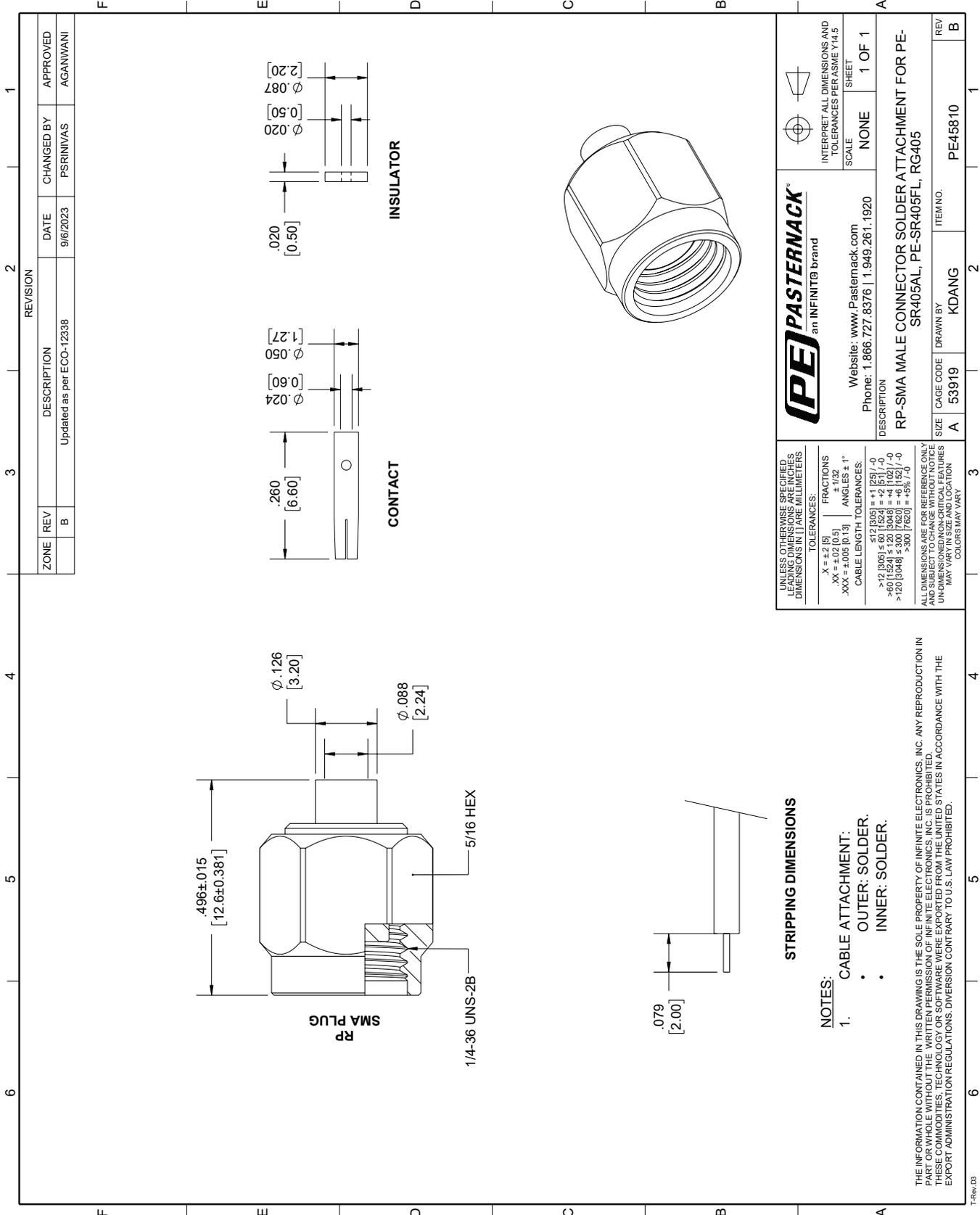
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [RP SMA Male Connector Solder Attachment for PE-SR405AL, PE-SR405FL, RG405 Cable PE45810](#)

URL: <https://www.pasternack.com/sma-male-reverse-polarity-pe-sr405al-pe-sr405fl-rg405-connector-pe45810-p.aspx>

The information contained within 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 impliment improvements. Pasternack Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

PE45810 CAD Drawing

RP SMA Male Connector Solder Attachment for PE-SR405AL, PE-SR405FL, RG405 Cable



ZONE		REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
B			Updated as per ECO-12338	9/6/2023	PSRINIVAS	AGANWANI

PE PASTERNAK
an INFINITI® brand

Website: www.Pasternack.com
Phone: 1.866.727.8376 | 1.949.261.1920

DESCRIPTION: RP-SMA MALE CONNECTOR SOLDER ATTACHMENT FOR PE-SR405AL, PE-SR405FL, RG405

UNLESS OTHERWISE SPECIFIED, LEADERS DIMENSIONS ARE IN INCHES. DIMENSIONS IN [] ARE MILLIMETERS.

TOLERANCES:

X = +2 (5)	FRACTIONS ± 1/32
.XX = ±0.02 (0.5)	ANGLES ± 1°
.XXX = ±0.002 (0.13)	

CABLE LENGTH TOLERANCES:

<12 (305)	±.001 (±.025)
>12 (305) ≤ 60 (1524)	±.001 (±.025)
>60 (1524) ≤ 120 (3048)	±.002 (±.051)
>120 (3048) ≤ 300 (7620)	±.003 (±.076)
>300 (7620)	±.004 (±.102)

ALL DIMENSIONS ARE FOR REFERENCE ONLY. DIMENSIONS OF CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE: NONE

SHEET: 1 OF 1

REV	ITEM NO.	SIZE	CAGE CODE	DRAWN BY
B	PE45810	A	53919	KDANG

- STRIPPING DIMENSIONS**
- NOTES:
- CABLE ATTACHMENT:
 - OUTER: SOLDER.
 - INNER: SOLDER.

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SMA Female Connector Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, RG405



PE4116

Configuration

- SMA Female Connector
- MIL-STD-348
- 50 Ohms
- Straight Body Geometry
- Solder/Solder Method
- Connector Interface Types: PE-SR405AL, PE-SR405FL, PE-SR405FLJ, RG405

Features

- Max. Operating Frequency 18 GHz
- Gold Plated Beryllium Copper Contact
- Contact plating according to MIL-G-45204

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE4116 , SMA, Standard, Connector is part of our full line of RF components available for same-day shipping. Our SMA female connector operates up to a maximum frequency of 18 GHz.

Our SMA female connector PE4116 datasheet specifications and drawing with dimensions are shown below in this PDF. Pasternack's broad catalog of RF, microwave and millimeter wave connectors allows designers to configure and customize their signal connections however they like. Whether the need is to provide an I/O for a board design, or simply create a custom cable assembly configuration, Pasternack has the right connector 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		18	GHz
Operating Voltage (AC)			335	Vrms
Dielectric Withstanding Voltage (AC)			1,000	Vrms
Insulation Resistance	10,000			MOhms
Impedance		50		Ohms

Mechanical Specifications

Size

Length	0.55 in [13.97 mm]
Width	0.25 in [6.35 mm]
Height	0 in [0 mm]
Weight	0.006 lbs [2.72 g]

SMA Female Connector Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, RG405



PE4116

Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold MIL-G-45204
Insulation	PTFE	
Outer Conductor	Stainless Steel	Gold
Body	Stainless Steel	Gold MIL-G-45204

Environmental Specifications

Temperature Operating Range	-65 to +165 deg C
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Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

SMA Female Connector Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, RG405 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.

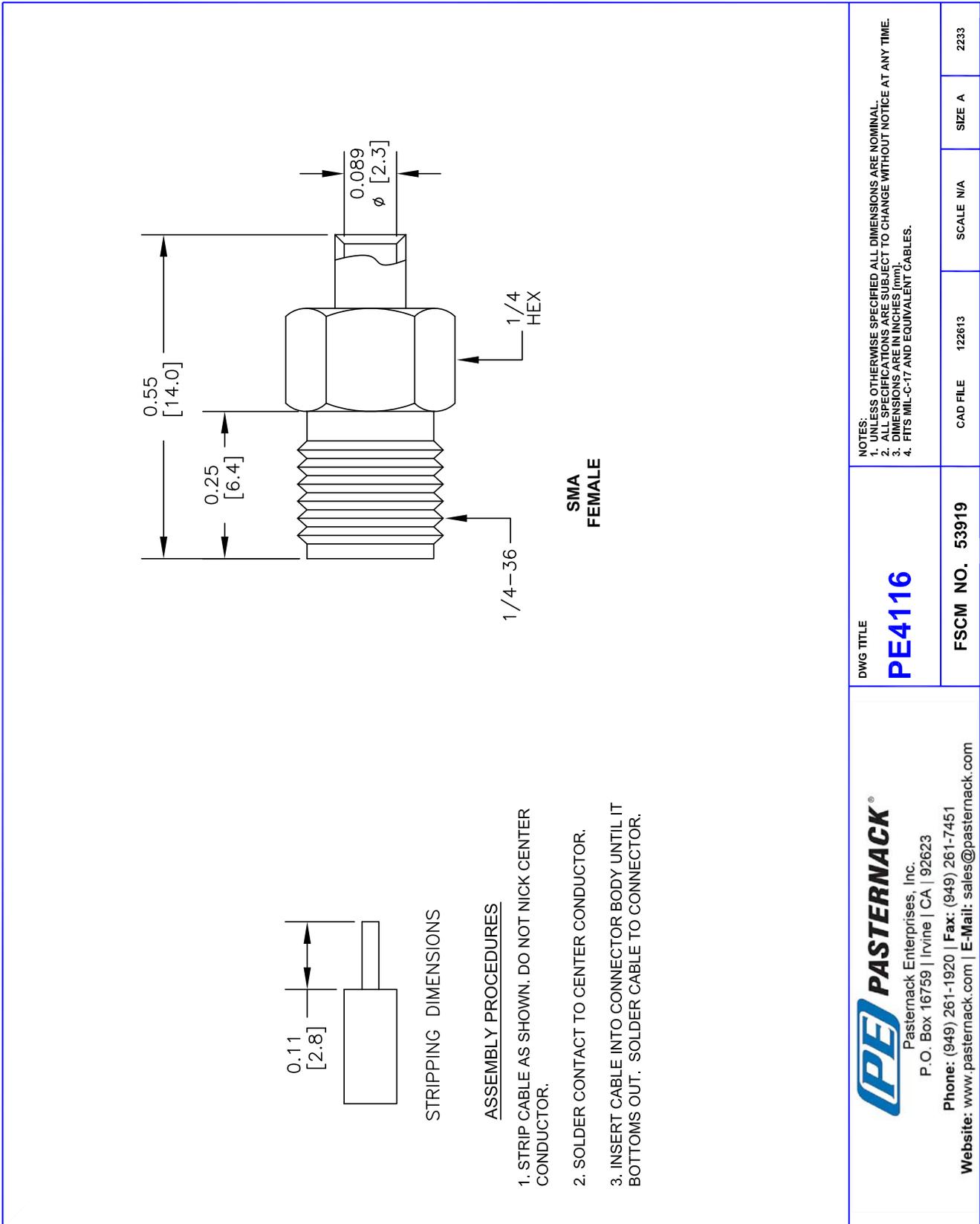
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Female Connector Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, RG405 PE4116](#)

URL: <https://www.pasternack.com/sma-female-standard-pe-sr405al-pe-sr405fl-rg405-connector-pe4116-p.aspx>

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PE4116 CAD Drawing

SMA Female Connector Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, RG405





Formable 086 Semirigid Coax Cable with Tinned Braid Outer Conductor and Black FEP Jacket

RF Cables Technical Data Sheet

PE-SR405FLJ

Configuration

- Formable Cable
- 1 Shield(s)

Features

- Dimensionally the same as standard solid outer conductor semi-rigid coax
- Standard semi-rigid connectors can be used
- Cable is hand formable and does not require special tools to bend
- Connectors are easily soldered to Tin soaked outer conductor
- Cable can be formed more than once without damage to outer conductor
- High RF Shielding >100 dB

Description

Formable semi-rigid coax is a hand formable version of standard semi-rigid that does not require complicated and costly pre-formed cable assemblies. Because the dimensions and electrical characteristics are so closely matched to semi-rigid coax, standard semi-rigid connectors can be used. The tin soaked copper braid outer shield provides excellent RF shielding. FEP Jacket reduces the chance of shorting exposed contacts or circuit conductors.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		61	GHz
Impedance		50		Ohms
Velocity of Propagation		69.5		%
Time Delay		1.43 [4.69]		ns/ft [ns/m]
Shielding Effectiveness	100			dB
Operating Voltage (AC)			1,500	Vrms
Inner Conductor DC Resistance			65.7	Ohms/1000ft
Outer Conductor DC Resistance			10.2	Ohms/1000ft
Nominal Capacitance		29 [95.14]		pF/ft [pF/m]

Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	5	10	20	GHz
Attenuation, Typ	15	22.5	54.9	81.2	120	dB/100ft
	49.21	73.82	180.12	266.4	393.7	dB/100m
Input Power (CW), Max	173.5	121.5	52.2	35.8	24.3	Watts

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Formable PE-SR405FLJ Coax Cable with Outer Conductor and Black FEP Jacket PE-SR-405FLJ](#)



Formable 086 Semirigid Coax Cable with Tinned Braid Outer Conductor and Black FEP Jacket

RF Cables Technical Data Sheet

PE-SR405FLJ

Mechanical Specifications

Diameter	0.105 in [2.67 mm]
Weight	0.015 lbs/ft [0.02 Kg/m]
Min. Bend Radius (Installation)	0.5 in [12.7 mm]
Min. Bend Radius (Repeated)	0.787 in [19.99 mm]

Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper Clad Steel, Silver, 1 Strands	0.02 in [0.51 mm]
Conductor Type	Solid	
Dielectric	PTFE	0.062 in [1.57 mm]
Outer Conductor	Tinned Copper Composite Braid	0.085 in [2.16 mm]
Jacket	FEP, Black	0.105 in [2.67 mm]

Environmental Specifications

Temperature

Operating Range	-55 to +125 deg C
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Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

Formable 086 Semirigid Coax Cable with Tinned Braid Outer Conductor and Black FEP Jacket 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.

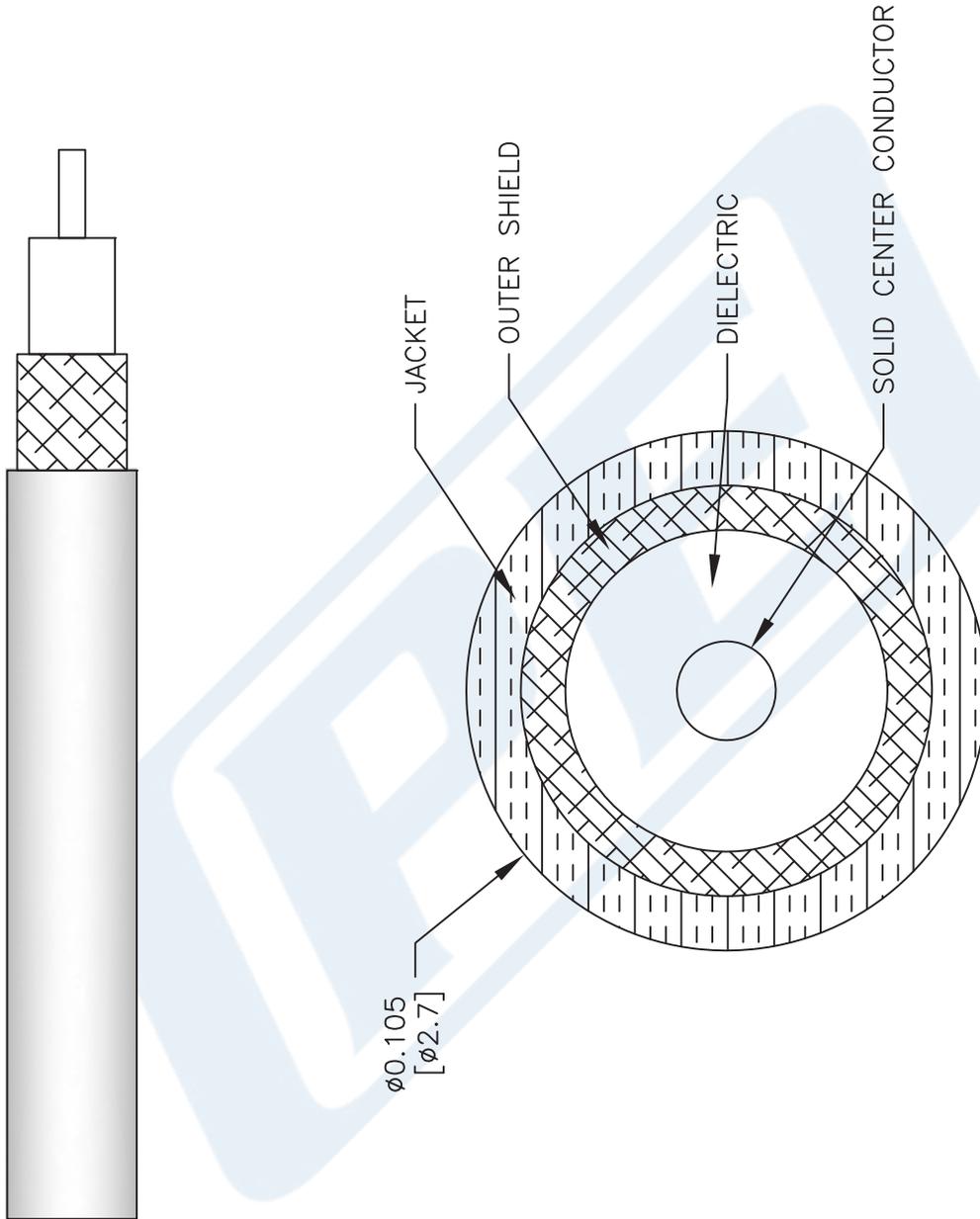
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Formable PE-SR405FLJ Coax Cable with Outer Conductor and Black FEP Jacket PE-SR405FLJ](#)

URL: <https://www.pasternack.com/50-ohm-formable-086-semirigid-tinned-braid-outer-conductor-fep-jacket-black-pe-sr405flj-p.aspx>

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PE-SR405FLJ CAD Drawing

Formable 086 Semirigid Coax Cable with Tinned Braid
Outer Conductor and Black FEP Jacket



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].

DWG TITLE
PE-SR405FLJ

CAGE CODE 53919

CAD FILE 062817 SCALE N/A SIZE A 2233

(PE) PASTERNAK®
THE ENGINEER'S RF SOURCE
Pasternack Enterprises, Inc.
P.O. Box 16759 | Irvine | CA | 92623
Phone: (949) 261-1920 | Fax: (949) 261-7451
Website: www.pasternack.com | E-Mail: sales@pasternack.com