



BMA Plug Bulkhead Mount Slide-On Connector Solder/ Non-Solder Contact Attachment for RG405, PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN

RF Connectors Technical Data Sheet

PE45311

Configuration

- Slide-On BMA Plug Connector
- 50 Ohms
- Straight Body Geometry
- RG405, PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN Interface Type
- Solder/Non-Solder Contact Attachment
- Bulkhead
- 8 mm Hex

Features

- Max. Operating Frequency 22 GHz
- Good VSWR of 1.3:1
- Gold Plated Bronze Contact
- 51.18μ in. minimum contact plating
- Blind Mate Connector
- Low-Engagement Force

Applications

- General Purpose Test
- Rack and Panel Mount Applications
- Custom Cable Assemblies
- Blind Mating
- Rack and Panel
- Phased Array Systems
- Base Stations
- RF Backplanes
- Test I/O

Description

Pasternack's PE45311 BMA plug slide-on bulkhead connector with solder/non-solder contact attachment for RG405, PE-SR405AL, PE-SR405FL, PE-SR405FLJ and PE-SR405TN is part of our full line of RF components available for same-day shipping. Our BMA plug connector operates up to a maximum frequency of 22 GHz and offers good VSWR of 1.3:1. The Pasternack blind mate connector is ideal for applications where direct visual or tactile access to the connection point is not possible, for example, when two circuit boards need to be mated. This BMA bulkhead connector 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.

Our BMA plug bulkhead connector PE45311 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		22	GHz
VSWR			1.3:1	
Insertion Loss			0.14	dB
Operating Voltage (AC)			350	Vrms
Dielectric Withstanding Voltage (AC)			1,000	Vrms
Insulation Resistance	5,000			MOhms

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [BMA Plug Bulkhead Mount Slide-On Connector Solder/Non-Solder Contact Attachment for RG405, PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN PE45311](#)



BMA Plug Bulkhead Mount Slide-On Connector Solder/
Non-Solder Contact Attachment for RG405, PE-SR405AL,
PE-SR405FL, PE-SR405FLJ, PE-SR405TN

RF Connectors Technical Data Sheet

PE45311

Mechanical Specifications

Size

Length	0.7 in [17.78 mm]
Width/Dia.	0.315 in [8.00 mm]
Weight	0.008 lbs [3.63 g]
Mating Cycles	1,000 Cycles

Material Specifications

Description	Material	Plating
Contact	Bronze	Gold 51.18μ in. minimum
Insulation	PTFE	
Outer Conductor	Brass	Tri-Metal 78.74μ in. minimum
Body	Brass	Tri-Metal 78.74μ in. minimum
Washer	Brass	Nickel

Environmental Specifications

Temperature

Operating Range	-65 to +125 deg C
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Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [BMA Plug Bulkhead Mount Slide-On Connector Solder/Non-Solder Contact Attachment for RG405, PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN PE45311](#)



BMA Plug Bulkhead Mount Slide-On Connector Solder/
Non-Solder Contact Attachment for RG405, PE-SR405AL,
PE-SR405FL, PE-SR405FLJ, PE-SR405TN

RF Connectors Technical Data Sheet

PE45311

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

Plotted and Other Data

Notes:

BMA Plug Bulkhead Mount Slide-On Connector Solder/Non-Solder Contact Attachment for RG405, PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN 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.

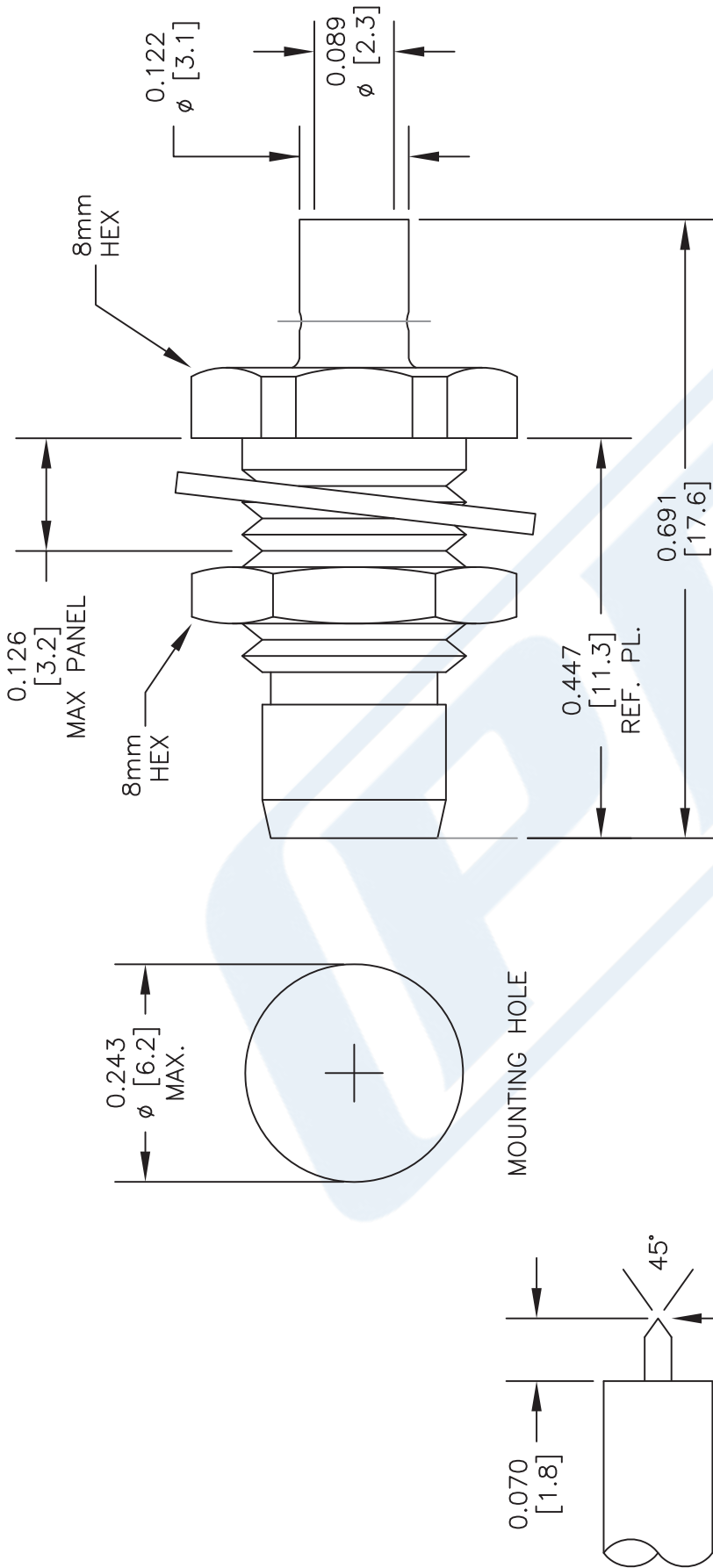
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URL: <https://www.pasternack.com/bma-plug-slide-on-rg405-pe-sr405al-pe-sr405fl-pe-sr405flj-connector-pe45311-p.aspx>

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.

PE45311 CAD Drawing

BMA Plug Bulkhead Mount Slide-On Connector Solder/Non-Solder Contact
Attachment for RG405, PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN



STRIPPING DIMENSIONS

ASSEMBLY PROCEDURES

1. STRIP CABLE AS SHOWN. DO NOT NICK CENTER CONDUCTOR.
2. SLIDE CABLE INTO CONNECTOR INSURING CENTER CONDUCTOR MATES WITH CENTER PIN.
3. OUTER CONDUCTOR BOTTOMS OUT WITH BODY SHOULDER. SOLDER OUTER CONDUCTOR TO BODY.

STANDARD TOLERANCES

.X	± 0.2
.XX	± 0.1
.XXX	± 0.05

*STANDARD TOLERANCES APPLY
ONLY TO DIMENSIONS IN INCHES

DWG TITLE

PE45311

- 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].

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CAGE CODE 53919

CAD FILE 022317

SCALE N/A

SIZE A

2233



BMA Jack MIL-STD-38999 (D38999) Connector
Solder Attachment for RG405, PE-SR405AL,
PE-SR405FL, PE-SR405FLJ

RF Connectors Technical Data Sheet

PE45325

Configuration

- Snap-On BMA Jack Connector
- 50 Ohms
- Straight Body Geometry
- RG405, PE-SR405AL, PE-SR405FL, PE-SR405FLJ Interface Type
- Solder/Solder Attachment

Features

- Max. Operating Frequency 22 GHz
- Good VSWR of 1.27:1
- Gold Plated Beryllium Copper Contact
- 51.18µ in. minimum contact plating
- Blind Mate Connector
- IP54(Mated)
- Low-Engagement Force
- Radial and Axial Float Versions

Applications

- General Purpose Test
- Custom Cable Assemblies
- Blind Mating
- Rack and Panel
- Phased Array Systems
- Base Stations
- RF Backplanes
- Test I/O

Description

Pasternack's PE45325 BMA jack snap-on connector with solder/solder attachment for RG405, PE-SR405AL, PE-SR405FL and PE-SR405FLJ is part of our full line of RF components available for same-day shipping. Our BMA jack connector operates up to a maximum frequency of 22 GHz and offers good VSWR of 1.27:1. The Pasternack blind mate connector is ideal for applications where direct visual or tactile access to the connection point is not possible, for example, when two circuit boards need to be mated.

Our BMA jack connector PE45325 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		22	GHz
VSWR			1.27:1	
Insertion Loss			0.14	dB
Operating Voltage (AC)			500	Vrms
Dielectric Withstanding Voltage (AC)			1,000	Vrms
Insulation Resistance	5,000			MOhms

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [BMA Jack MIL-STD-38999 \(D38999\) Connector Solder Attachment for RG405, PE-SR405AL, PE-SR405FL, PE-SR405FLJ PE45325](#)



BMA Jack MIL-STD-38999 (D38999) Connector
Solder Attachment for RG405, PE-SR405AL,
PE-SR405FL, PE-SR405FLJ

RF Connectors Technical Data Sheet

PE45325

Mechanical Specifications

Size

Length	0.84 in [21.34 mm]
Width/Dia.	0.315 in [8.00 mm]
Weight	0.007 lbs [3.18 g]
Mating Cycles	1,000 Cycles

Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold 51.18μ in. minimum
Insulation	PTFE	
Outer Conductor	Beryllium Copper	Gold
Body	Stainless Steel	Gold 19.68μ in. minimum

Mechanical Specification Notes:

Recommended axial float mount for best electrical performance: 0.51 +/- 0.25 mm (.020" +/- .010)

Environmental Specifications

Temperature

Operating Range	-40 to +105 deg C
Ingress Protection (IP) Rating	IP54(Mated)

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [BMA Jack MIL-STD-38999 \(D38999\) Connector Solder Attachment for RG405, PE-SR405AL, PE-SR405FL, PE-SR405FLJ PE45325](#)



BMA Jack MIL-STD-38999 (D38999) Connector
Solder Attachment for RG405, PE-SR405AL,
PE-SR405FL, PE-SR405FLJ

RF Connectors Technical Data Sheet

PE45325

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

Plotted and Other Data

Notes:

BMA Jack MIL-STD-38999 (D38999) Connector Solder Attachment for RG405, PE-SR405AL, PE-SR405FL, PE-SR405FLJ 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.

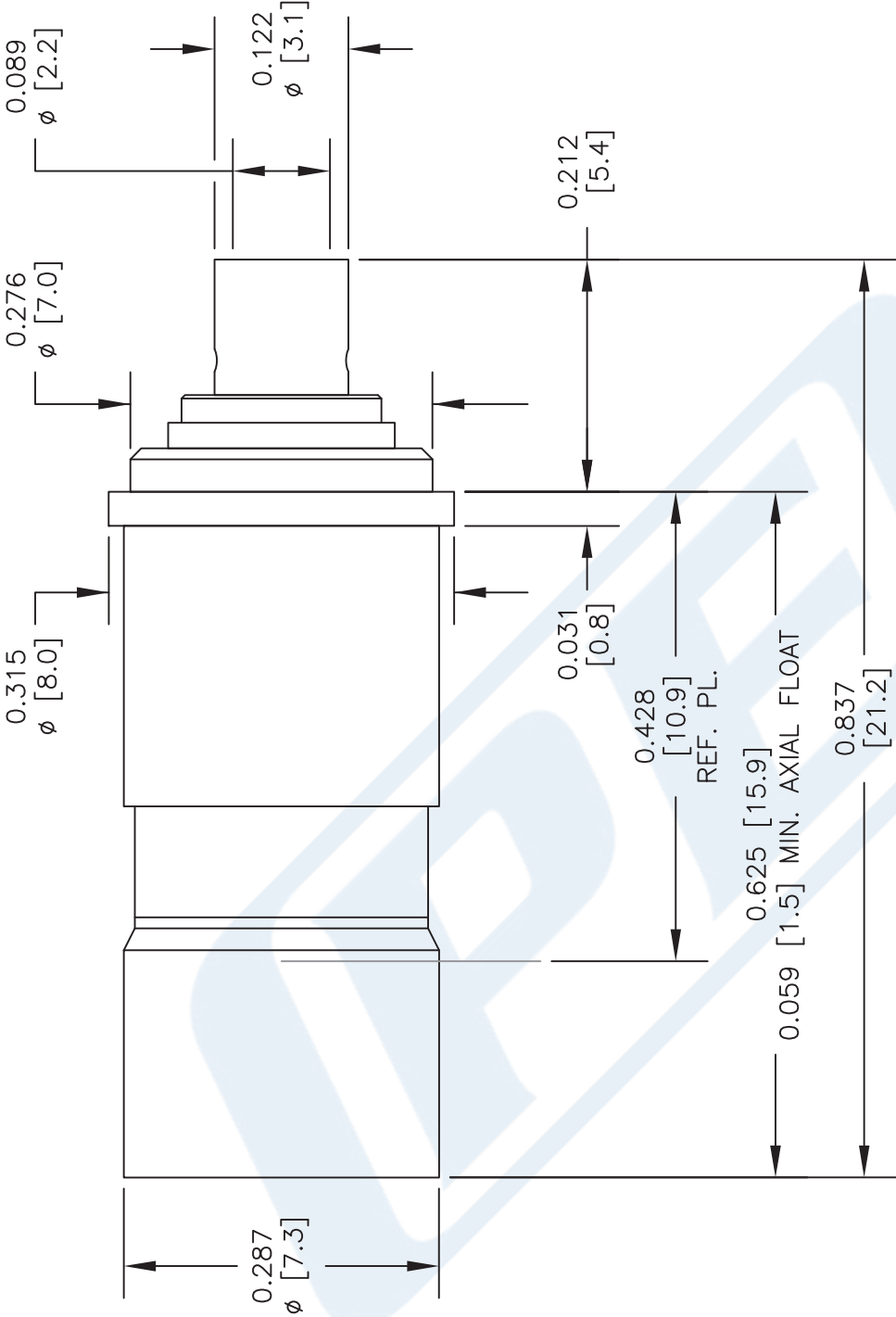
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URL: <https://www.pasternack.com/bma-jack-snap-on-rg405-pe-sr405al-pe-sr405fl-pe-sr405flj-connector-pe45325-p.aspx>

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PE45325 CAD Drawing

BMA Jack MIL-STD-38999 (D38999) Connector Solder Attachment
for RG405, PE-SR405AL, PE-SR405FL, PE-SR405FLJ



STANDARD TOLERANCES	
.X	±0.2
.XX	±0.1
.XXX	±0.05

*STANDARD TOLERANCES APPLY
ONLY TO DIMENSIONS IN INCHES

NOTES:
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DWG TITLE
PE45325

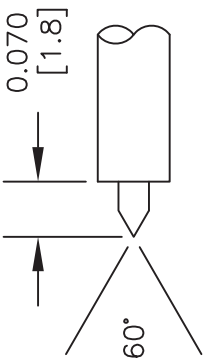
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SIZE A
2233

CAGE CODE 53919

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ASSEMBLY PROCEDURES

1. STRIP CABLE AS SHOWN. DO NOT NICK CENTER CONDUCTOR.
2. SLIDE CABLE INTO CONNECTOR INSURING CENTER CONDUCTOR MATES WITH CENTER PIN.
3. OUTER CONDUCTOR BOTTOMS OUT WITH BODY SHOULDER. SOLDER OUTER CONDUCTOR TO BODY.



086 Semi-rigid Coax Cable with Tinned Aluminum Outer Conductor

RF Cables Technical Data Sheet

PE-SR405AL

Configuration

- Semi-Rigid Cable
- 1 Shield(s)

Features

- Tinned Aluminum Outer Conductor
- Max Frequency 40 GHz

Applications

- Test and Measurement
- Communication Systems
- Wireless Systems
- Medical Equipment
- RADAR
- Low Loss Applications
- Field Installations

Description

Semi-rigid coaxial cable provides the highest electrical performance including low loss and high RF shielding effectiveness, which is why it is the cable type of choice for many RF and microwave engineers. Pasternack's PE-SR405AL is a .086 semi-rigid coax cable constructed with silver plated copper clad steel inner conductor, solid PTFE dielectric and tinned aluminum outer conductor. This .086 semi-rigid cable has a maximum operating frequency of 40 GHz and is designed as a superior alternative to the standard RG-405 cable. Semi-rigid cable is used in a wide variety of applications including when higher operating frequency or precision performance is required. PE-SR405AL .086 semi-rigid coaxial cable datasheet specifications and outline drawing are shown in the PDF below.

Pasternack carries a wide range of cables ready to ship same day to fit your needs. They are available in corrugated, flexible, formable or semi-rigid versions with different constructions of conductor materials, dielectric materials, shielding configurations and jacket materials. Our cables are designed to fit a wide range of performance criteria including attenuation, operating temperature, environmental factor, and power capability.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		40	GHz
Impedance		50		Ohms
Dielectric Withstanding Voltage (AC)			5,000	Vrms

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [086 Semi-rigid Coax Cable with Tinned Aluminum Outer Conductor PE-SR405AL](#)

086 Semi-rigid Coax Cable with Tinned Aluminum Outer Conductor

RF Cables Technical Data Sheet

PE-SR405AL

Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	1	10	20			GHz
Attenuation, Max	23	81	131			dB/100ft
	75.46	265.75	429.79			dB/100m
Input Power (CW), Max	130	35	20			Watts

Mechanical Specifications

Min. Bend Radius (Installation) 0.05 in [1.27 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	0.066 in [1.68 mm]
Outer Conductor	Tinned Aluminum	0.086 in [2.18 mm]

Environmental Specifications

Temperature

Operating Range -55 to +125 deg C

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [086 Semi-rigid Coax Cable with Tinned Aluminum Outer Conductor PE-SR405AL](#)

086 Semi-rigid Coax Cable with Tinned Aluminum Outer Conductor

RF Cables Technical Data Sheet

PE-SR405AL

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

Plotted and Other Data

Notes:

086 Semi-rigid Coax Cable with Tinned Aluminum Outer Conductor 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.

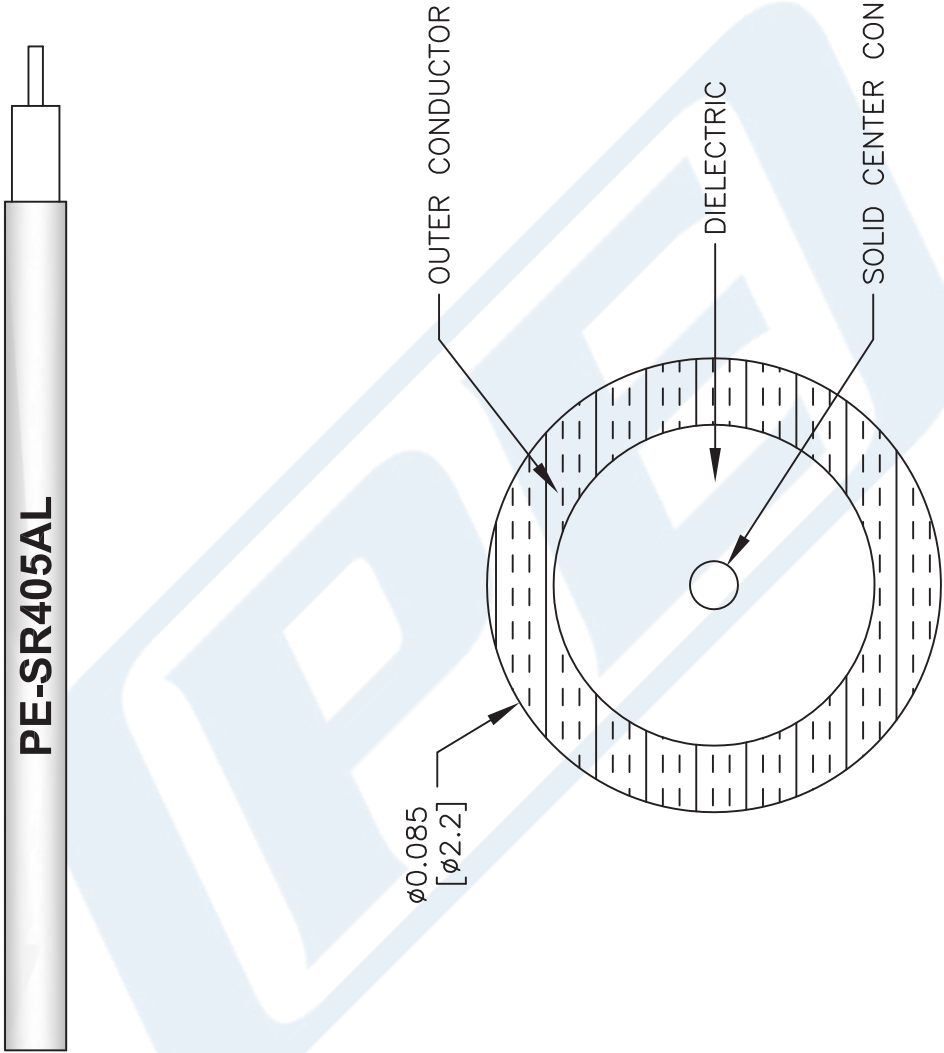
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [086 Semi-rigid Coax Cable with Tinned Aluminum Outer Conductor PE-SR405AL](#)

URL: <https://www.pasternack.com/semirigid-0.085-50-ohm-coax-cable-tinned-aluminum-pe-sr405al-p.aspx>

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PE-SR405AL CAD Drawing

086 Semi-rigid Coax Cable with Tinned Aluminum Outer Conductor



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DWG TITLE
PE-SR405AL

FSCM NO. 53919

SCALE N/A

SIZE A

41742

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