



## 1.85mm Male Connector Clamp/Solder Attachment for PE-P086, PE-P086LL

### RF Connectors Technical Data Sheet

PE45005

#### Configuration

- 1.85mm Male Connector
- 50 Ohms
- Straight Body Geometry
- PE-P086, PE-P086LL Interface Type
- Clamp/Solder Attachment
- 5/16 inch Hex

#### Features

- Gold over Nickel Plated Beryllium Copper Contact
- 50 µin minimum contact plating

#### Applications

- General Purpose Test
- Custom Cable Assemblies

#### Description

Pasternack's PE45005 1.85mm male connector with clamp/solder attachment for PE-P086 and PE-P086LL is part of our full line of RF components available for same-day shipping.

Our 1.85mm male connector PE45005 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.

#### Mechanical Specifications

Size	
Length	0.915 in [23.24 mm]
Width/Dia.	0.375 in [9.53 mm]
Weight	0.018 lbs [8.16 g]

#### Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold over Nickel 50 µin minimum
Insulation	PPE	
Body	Passivated Stainless Steel	SAE-AMS-2700
Coupling Nut	Passivated Stainless Steel	SAE-AMS-2700

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [1.85mm Male Connector Clamp/Solder Attachment for PE-P086, PE-P086LL PE45005](#)



## 1.85mm Male Connector Clamp/Solder Attachment for PE-P086, PE-P086LL

### RF Connectors Technical Data Sheet

PE45005

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

#### Plotted and Other Data

Notes:

1.85mm Male Connector Clamp/Solder Attachment for PE-P086, PE-P086LL from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

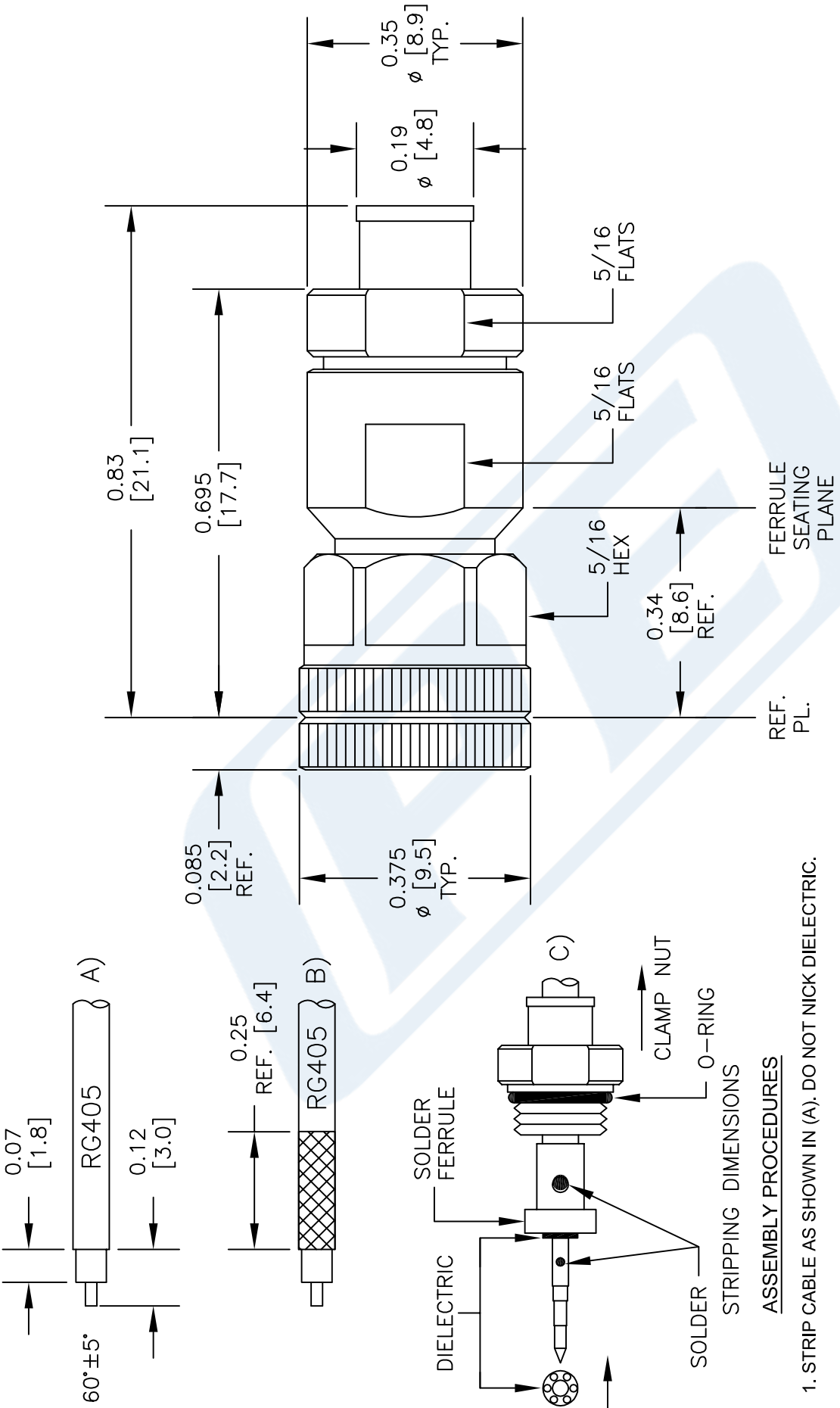
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URL: <https://www.pasternack.com/1.85mm-male-standard-pe-p086-connector-pe45005-p.aspx>

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# PE45005 CAD Drawing

1.85mm Male Connector Clamp/Solder Attachment for PE-P086, PE-P086LL



REF. PL.  
FERRULE SEATING PLANE

## ASSEMBLY PROCEDURES

1. STRIP CABLE AS SHOWN IN (A). DO NOT NICK DIELECTRIC.
2. PRE-TIN CABLE JACKET TO APPROXIMATE DIMENSION AS SHOWN IN (B).
3. INSERT CABLE THRU ADAPTER UNTIL IT BOTTOMS OUT. SOLDER OUTER CONDUCTOR TO ADAPTER & TRIM DIELECTRIC FLUSHED TO THE INSERT.
4. SCREW ASSEMBLY INTO BODY & TIGHTEN NUT.

**PE PASTERNAK®**  
THE ENGINEER'S RF SOURCE  
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Phone: (949) 261-1920 | Fax: (949) 261-7451  
Website: www.pasternack.com | E-Mail: sales@pasternack.com

DWG TITLE  
**PE45005**

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].  
4. FITS MIL-C-17 AND EQUIVALENT CABLES.

FSCM NO. 53919

CAD FILE 030414

SCALE N/A

SIZE A

150



## 1.85mm Male Connector Clamp/Solder Attachment for PE-P086, PE-P086LL

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## 1.85mm Male Connector Clamp/Solder Attachment for PE-P086, PE-P086LL

### RF Connectors Technical Data Sheet

PE45005

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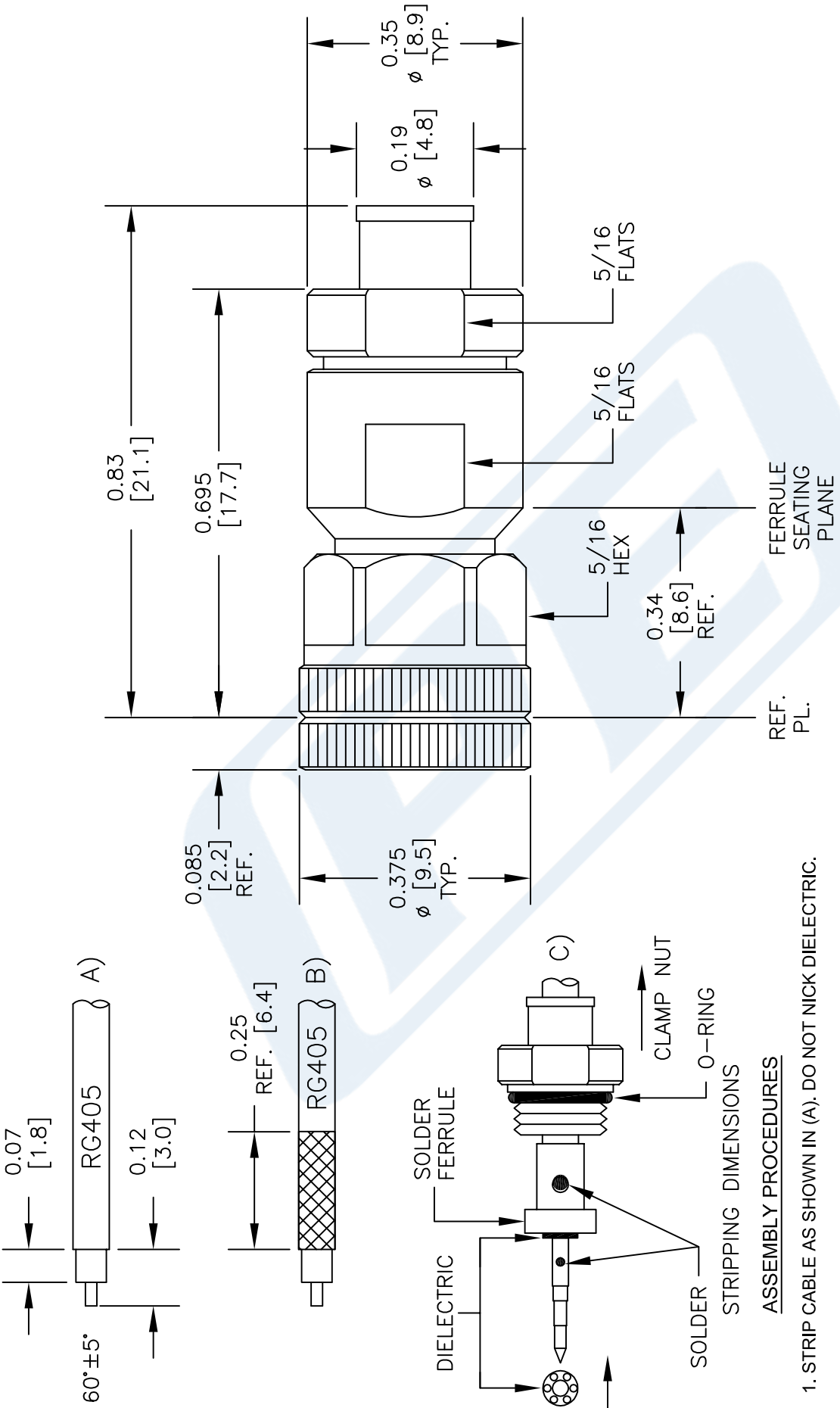
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# PE45005 CAD Drawing

1.85mm Male Connector Clamp/Solder Attachment for PE-P086, PE-P086LL



- REF. PL.
- FERRULE SEATING PLANE
- 5/16 HEX
- 5/16 FLATS
- 5/16 FLATS
- 0.34 [8.6] REF.
- 0.085 [2.2] REF.
- 0.375 [9.5] TYP.
- 0.12 [3.0]
- 0.07 [1.8]
- 60°±5°
- RG405
- RG405
- 0.25 [6.4] REF.
- 0.83 [21.1]
- 0.695 [17.7]
- 0.19 [4.8]  $\phi$  [8.9] TYP.
- 0.35 [8.9] TYP.
- CLAMP NUT
- O-RING
- SOLDER FERRULE
- DIELECTRIC
- SOLDER
- STRIPPING DIMENSIONS
- ASSEMBLY PROCEDURES
1. STRIP CABLE AS SHOWN IN (A). DO NOT NICK DIELECTRIC.
  2. PRE-TIN CABLE JACKET TO APPROXIMATE DIMENSION AS SHOWN IN (B).
  3. INSERT CABLE THRU ADAPTER UNTIL IT BOTTOMS OUT. SOLDER OUTER CONDUCTOR TO ADAPTER & TRIM DIELECTRIC FLUSHED TO THE INSERT.
  4. SCREW ASSEMBLY INTO BODY & TIGHTEN NUT.

DWG TITLE

**PE45005**

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FSCM NO. 53919

CAD FILE 030414

SCALE N/A

SIZE A

150



## Flexible PE-P086HF Coax Cable Double Shielded with Blue FEP Jacket

### RF Cables Technical Data Sheet

### PE-P086HF

#### Configuration

- Flexible Cable
- 2 Shield(s)

#### Description

Pasternack's PE-P086HF is a flexible, high frequency coaxial cable that provides similar loss characteristics to semi-rigid cable and low VSWR of 1.3:1 maximum up to 40 GHz. The low loss coax cable features silver-plated conductors and dual shields to maintain a shielding effectiveness of 110 dB. The size of the conductors for this low VSWR coax was specifically chosen to allow termination with standard connectors designed for M17/133-RG405 and other M17/133 cables. The outer shield is coated with a tough, chemical and heat resistant jacket. This PE-P086HF flexible low loss coaxial cable is a great choice for short length, high frequency system hook-up or jumper cable applications. The Pasternack coax cable can also be used as a replacement option for bent semi-rigid cable assemblies when length and routing are considered.

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		40	GHz
Impedance		50 $\pm$ 2		Ohms
Velocity of Propagation		70		%
Nominal Capacitance		29.4 [96.46]		pF/ft [pF/m]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Flexible PE-P086HF Coax Cable Double Shielded with Blue FEP Jacket PE-P086HF](#)

## Flexible PE-P086HF Coax Cable Double Shielded with Blue FEP Jacket

### RF Cables Technical Data Sheet

### PE-P086HF

#### Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	0.4	1	2	2.4	3	GHz
Attenuation, Max	13.1	21.1	30.5	33.7	38	dB/100ft
	42.98	69.23	100.07	110.56	124.67	dB/100m
Attenuation, Typ	11.9	19.2	27.7	30.6	34.5	dB/100ft
	39.04	62.99	90.88	100.39	113.19	dB/100m

Description	F6	F7	F8	F9	F10	Units
Frequency	5	10	18	40		GHz
Attenuation, Max	50.3	74.3	104.6	170.3		dB/100ft
	165.03	243.77	343.18	558.73		dB/100m
Attenuation, Typ	45.7	67.5	95.1	154.8		dB/100ft
	149.93	221.46	312.01	507.87		dB/100m

#### Mechanical Specifications

Diameter	0.104 in [2.64 mm]
Weight	0.013 lbs/ft [0.02 Kg/m]
Min. Bend Radius (Installation)	0.52 in [13.21 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	0.064 in [1.63 mm]
First Shield	Silver Plated Copper Tape	
Second Shield	Silver Plated Copper Braid	

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Flexible PE-P086HF Coax Cable Double  
Shielded with Blue FEP Jacket

**RF Cables Technical Data Sheet**

**PE-P086HF**

Jacket	FEP, Blue	0.104 in [2.64 mm]
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**Environmental Specifications**

**Temperature**

Operating Range -55 to +200 deg C

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

**Plotted and Other Data**

**Notes:**

Flexible PE-P086HF Coax Cable Double Shielded with Blue 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.

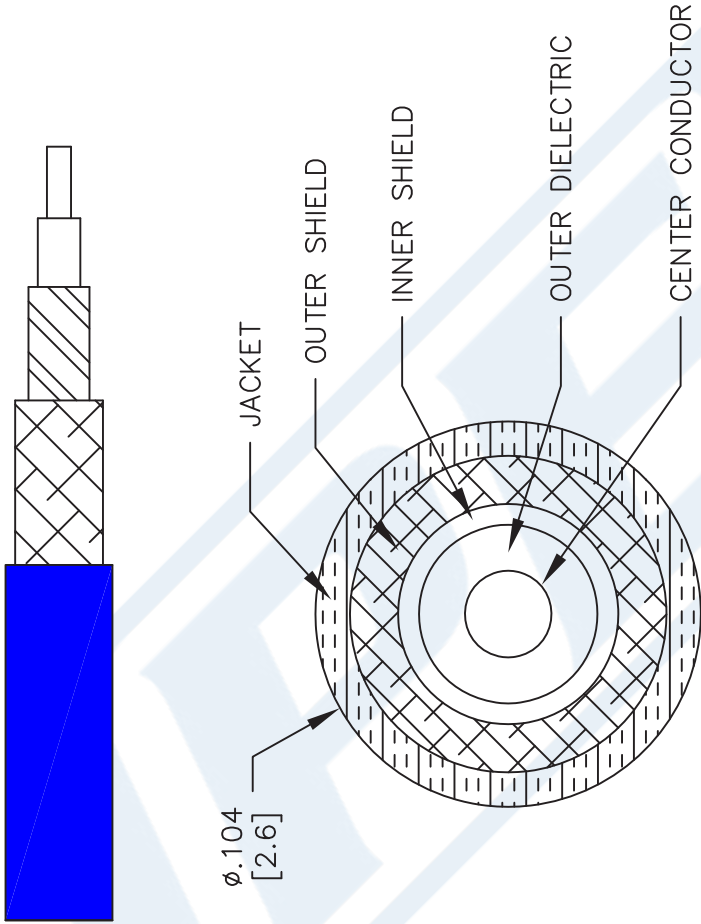
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URL: <https://www.pasternack.com/50-ohm-flexible-invalid-alias-fep-jacket-silver-plated-copper-tape-over-silver-plated-copper-braid-outer-conductor-double-shielded-blue-pe-p086hf-p.aspx>

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PE-P086HF CAD Drawing

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DWG TITLE  
**PE-P086HF**

CAGE CODE 53919

CAD FILE 041317

SCALE N/A

SIZE A

2233

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