



# 1.85mm Male Connector Solder Attachment for PECX003, PECX004, Low Loss 070 Semi-Rigid

## RF Connectors Technical Data Sheet

PE45484

### Configuration

- 1.85mm Male Connector
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: PECX003, PECX004

### Features

- Max. Operating Frequency 70 GHz
- Excellent VSWR of 1.18:1
- Gold Plated Beryllium Copper Contact
- Contact plating according to ASTM-B488

### Applications

- General Purpose Test
- Custom Cable Assemblies

### Description

Pasternack's PE45484 1.85mm male connector with solder attachment for PECX003 and PECX004 is part of our full line of RF components available for same-day shipping. Our 1.85mm male connector operates up to a maximum frequency of 70 GHz and offers excellent VSWR of 1.18:1.

Our 1.85mm male connector PE45484 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		70	GHz
VSWR			1.18:1	
Dielectric Withstanding Voltage (AC)			600	Vrms
High Potential Voltage			400	Vrms
Corona Discharge			150	Vrms
Insulation Resistance	5,000			MOhms
RF Leakage	-90			dB

### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 26.5	26.5 to 40	40 to 50	50 to 70		GHz
VSWR, Max	1.12:1	1.14:1	1.16:1	1.18:1		

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 Solder Attachment for PECX003, PECX004, Low Loss 070 Semi-Rigid PE45484](#)



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Electrical Specification Notes:  
Insertion Loss =  $0.04 \cdot \text{SQRT}(F_{\text{ghz}})$  dB

**Mechanical Specifications**

**Size**

Length 0.585 in [14.86 mm]  
Width/Dia. 0.35 in [8.89 mm]

Mating Cycles 500 Cycles  
Mating Torque 8 to 10 in-lbs [0.90 to 1.13 Nm]

**Material Specifications**

Description	Material	Plating
Contact	Beryllium Copper	Gold ASTM-B488
Insulation	PTFE	
Body	Beryllium Copper	Gold ASTM-B488
Coupling Nut	Steel	
Gasket	Silicone Rubber	

**Environmental Specifications**

**Temperature**

Operating Range -65 to +150 deg C  
Shock MIL-STD-202, Method 213, Condition I  
Vibration MIL-STD-202, Method 204, Condition D  
Thermal Shock MIL-STD-202, Method 107, Condition B

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

**Plotted and Other Data**

Notes:

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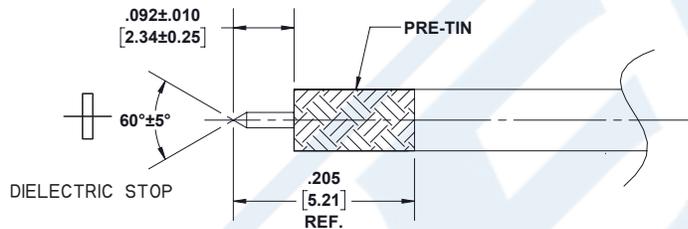


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Assembly Instruction

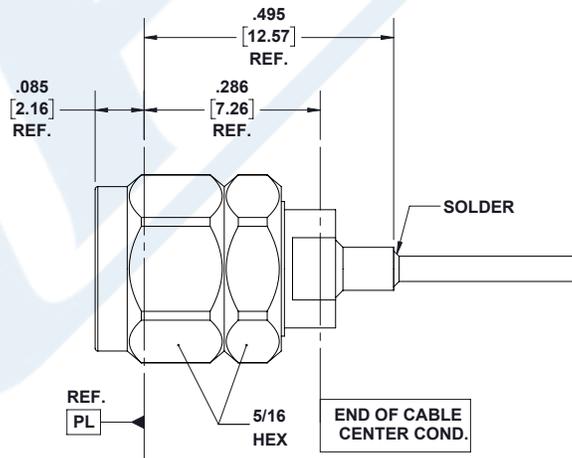


**STEP 1:**

- PRE-TIN CABLE OUTER JACKET OVER APPROX. LENGTH SHOWN.
- TRIM CABLE TO EXPOSE CENTER CONDUCTOR AS SHOWN.
- POINT CENTER CONDUCTOR AS INDICATED.
- SLIDE DIELECTRIC STOP ONTO CENTER CONDUCTOR AGAINST OUTER JACKET.

**STEP 2:**

- INSERT CABLE INTO CONNECTOR UNTIL CENTER CONDUCTOR PLUGS IN AND CABLE SEATS IN CONNECTOR BORE.
- SOLDER CABLE JACKET TO BODY WHERE SHOWN APPLYING HEAT TO EXTENDED BODY TAIL.



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1.85mm Male Connector Solder Attachment for PECX003, PECX004, Low Loss 070 Semi-Rigid 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.

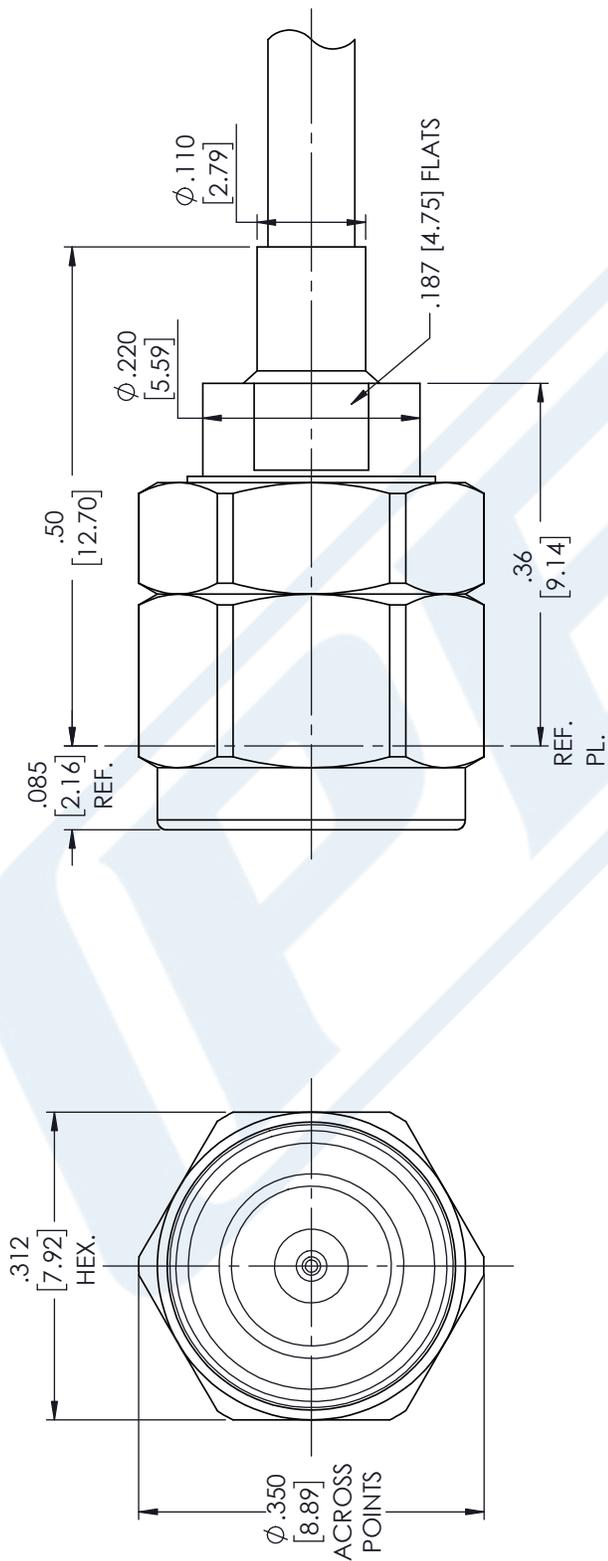
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The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements.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

# PE45484 CAD Drawing

1.85mm Male Connector Solder Attachment for PECX003,  
PECX004, Low Loss 070 Semi-Rigid



### STANDARD TOLERANCES

.X ±0.2  
.XX ±0.01  
.XXX ±0.005

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

NOTES: DISTANCE FROM END OF CABLE  
CENTER COND. TO REF. PL. IS .286



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DWG TITLE

PE45484

CAGE CODE 53919

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].

CAD FILE 07/27/18

SCALE N/A

SIZE A

CN2379