



SMA Male Right Angle Connector Solder Attachment for PE-020SR

RF Connectors Technical Data Sheet

PE4920

Configuration

- SMA Male Connector
- MIL-STD-348
- 50 Ohms
- Right Angle Body Geometry
- PE-020SR Interface Type
- Solder/Solder Attachment
- 5/16 inch Hex

Features

- Gold Plated Contact
- Contact plating according to MIL-G-45204

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE4920 SMA male right angle connector with solder/solder attachment for PE-020SR is part of our full line of RF components available for same-day shipping. Its right angle body geometry allows for easier connections in tight spaces.

Our SMA male right angle connector PE4920 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	0.615 in [15.62 mm]
Width/Dia.	0.438 in [11.13 mm]
Weight	0.013 lbs [5.9 g]
Mating Torque	3 to 5 in-lbs [0.34 to 0.57 Nm]

Material Specifications

Description	Material	Plating
Contact		Gold MIL-G-45204
Insulation	PTFE	
Body	Brass	Gold MIL-G-45204
Coupling Nut	Brass	Nickel QQ-N-290

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male Right Angle Connector Solder Attachment for PE-020SR PE4920](#)



SMA Male Right Angle Connector Solder Attachment for PE-020SR

RF Connectors Technical Data Sheet

PE4920

Environmental Specifications

Temperature

Operating Range

-65 to +165 deg C

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

Plotted and Other Data

Notes:

SMA Male Right Angle Connector Solder Attachment for PE-020SR 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.

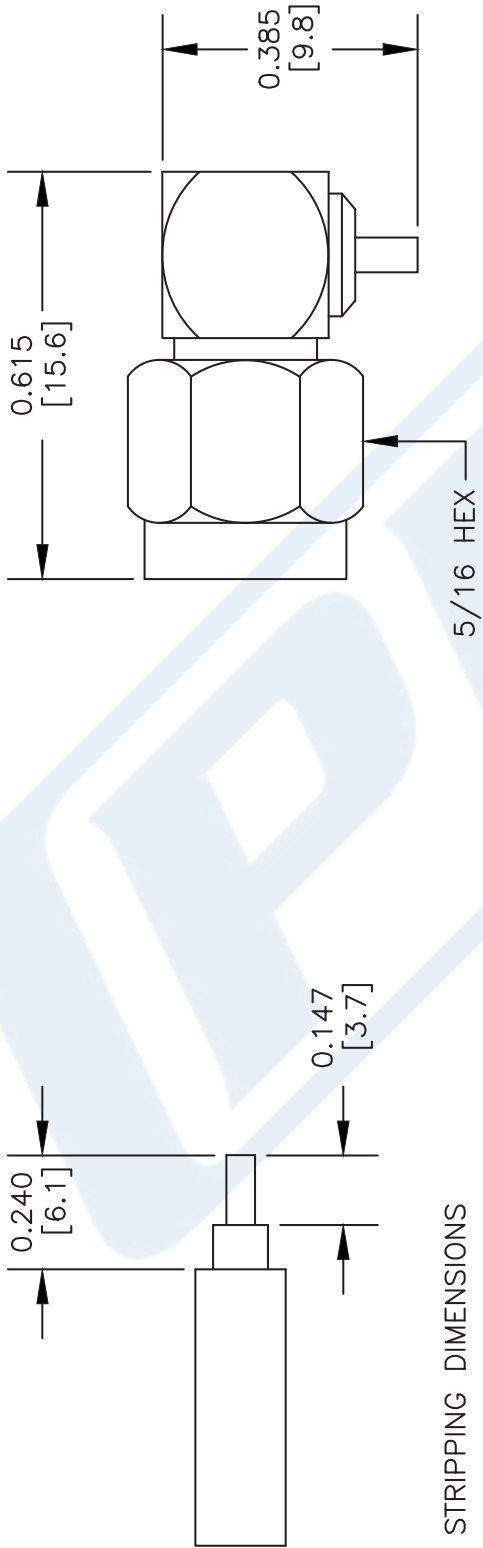
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male Right Angle Connector Solder Attachment for PE-020SR PE4920](#)

URL: <https://www.pasternack.com/sma-male-standard-pe-020sr-connector-pe4920-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.

PE4920 CAD Drawing

SMA Male Right Angle Connector Solder Attachment for PE-020SR



STRIPPING DIMENSIONS

ASSEMBLY PROCEDURES

1. STRIP CABLE AS SHOWN. DO NOT NICK CENTER CONDUCTOR.
2. INSERT CABLE INTO BODY UNTIL DIELECTRIC BOTTOMS OUT WITH BODY SHOULDER. CENTER CONDUCTOR WILL PROTRUDE INTO CONTACT SLOT.
3. SOLDER CENTER CONDUCTOR IN PLACE. SOLDER OUTER CONDUCTOR TO BODY. PRESS DOWN CAP.



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DWG TITLE

PE4920

FSCM NO. 53919

NOTES:

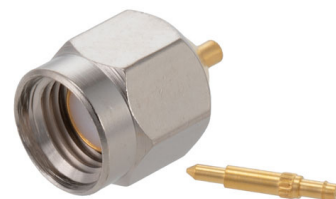
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
3. DIMENSIONS ARE IN INCHES [mm].
4. FITS MIL-C-17 AND EQUIVALENT CABLES.

CAD FILE 061302

SCALE N/A

SIZE A

XXX



SMA Male Connector Solder Attachment for PE-020SR

RF Connectors Technical Data Sheet

PE4918

Configuration

- SMA Male Connector
- MIL-STD-348
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: PE-020SR
- 5/16 inch Hex

Features

- Max. Operating Frequency 18 GHz
- Good VSWR of 1.3:1
- Gold Plated Brass Contact
- Contact plating according to MIL-G-45204

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE4918 SMA male connector with solder/solder attachment for PE-020SR is part of our full line of RF components available for same-day shipping. Our SMA male connector operates up to a maximum frequency of 18 GHz and offers good VSWR of 1.3:1.

Our SMA male connector PE4918 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.

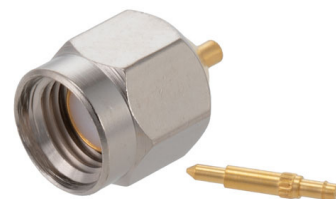
Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
VSWR			1.3:1	
Operating Voltage (AC)			125	Vrms
Dielectric Withstanding Voltage (AC)			375	Vrms
Insulation Resistance	5,000			MOhms

Mechanical Specifications

Size	
Length	0.499 in [12.67 mm]
Width/Dia.	0.312 in [7.92 mm]
Weight	0.007 lbs [3.18 g]
Mating Torque	3 to 5 in-lbs [0.34 to 0.57 Nm]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male Connector Solder Attachment for PE-020SR PE4918](#)



SMA Male Connector Solder Attachment for PE-020SR

RF Connectors Technical Data Sheet

PE4918

Material Specifications

Description	Material	Plating
Contact	Brass	Gold MIL-G-45204
Insulation	PTFE	
Body	Brass	Gold MIL-G-45204
Coupling Nut	Brass	Nickel QQ-N-290

Environmental Specifications

Temperature

Operating Range

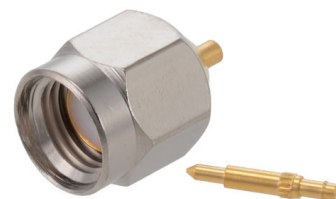
-65 to +165 deg C

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

Plotted and Other Data

Notes:

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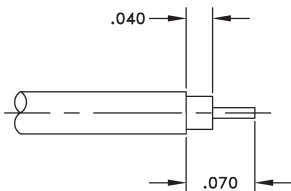


SMA Male Connector Solder Attachment for PE-020SR

RF Connectors Technical Data Sheet

PE4918

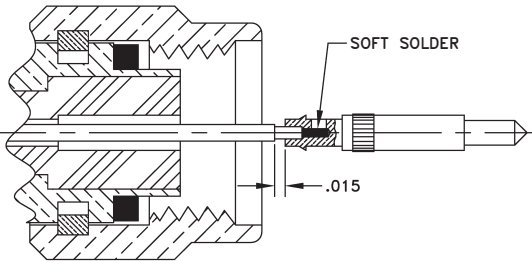
Assembly Instruction



.040
.070

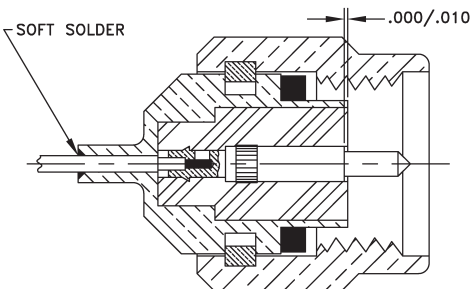
CABLE ASSEMBLY
INSTRUCTIONS SMA PLUG,
SEMI-RIGID CABLE

- 1.) STRIP CABLE TO DIMENSIONS SHOWN.
DO NOT NICK CENTER CONDUCTOR.
SLIDE CABLE THROUGH BODY FROM BACK SIDE.



SOFT SOLDER
.015

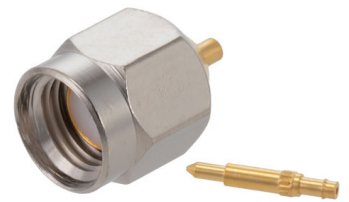
- 2.) INSERT TRIMMED CABLE INTO CONTACT UNTIL
DIELECTRIC BOTTOMS INSIDE CONTACT.
SOFT SOLDER CENTER CONDUCTOR. DO NOT
OVER HEAT AND SWELL DIELECTRIC.



SOFT SOLDER
.000/.010

- 3.) USING "OPEN" END OF PE5TL1008 ASSEMBLY TOOL,
PRESS CONTACT FULLY INTO INSULATOR.
SOLDER CABLE JACKET TO BODY AS SHOWN.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male Connector Solder Attachment for PE-020SR PE4918](#)



SMA Male Connector Solder Attachment for PE-020SR

RF Connectors Technical Data Sheet

PE4918

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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: [SMA Male Connector Solder Attachment for PE-020SR PE4918](https://www.pasternack.com/sma-male-standard-pe-020sr-connector-pe4918-p.aspx)

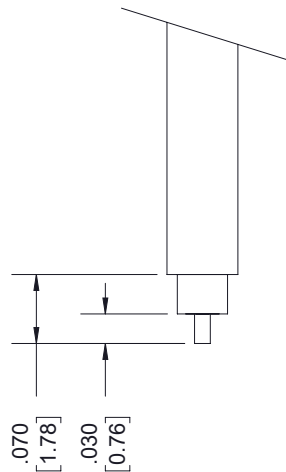
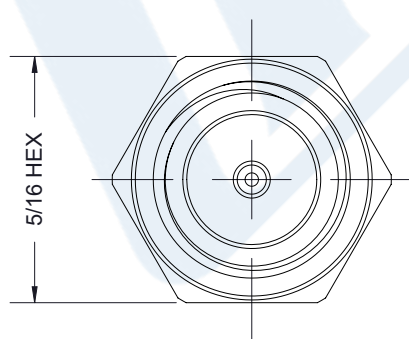
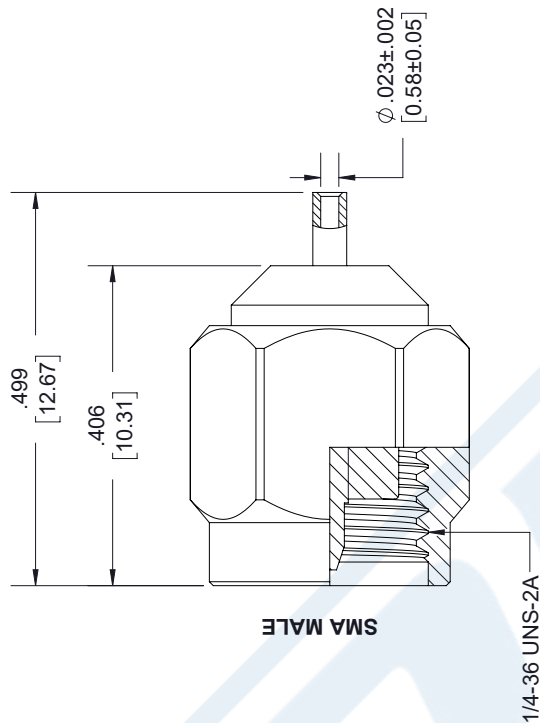
URL: <https://www.pasternack.com/sma-male-standard-pe-020sr-connector-pe4918-p.aspx>

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PE4918 CAD Drawing

SMA Male Connector Solder Attachment for PE-020SR

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	1/28/2020	SELLIS



STRIPPING DIMENSIONS

NOTES:

- CABLE ATTACHMENT:
 - OUTER: SOLDER.
 - INNER: SOLDER.

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

TOLERANCES:

.X = ± .2	[.08]	FRACTIONS
.XX = ± .02	[.51]	± 1/32
.XXX = ± .005	[.13]	ANGLES ± 1°

CABLE LENGTH (L) TOLERANCES:

L ≤ 12 [305]	= +1 [25] / -0
12 [305] < L ≤ 60 [1524]	= +2 [51] / -0
60 [1524] < L ≤ 120 [3048]	= +4 [102] / -0
120 [3048] < L ≤ 300 [7620]	= +6 [152] / -0
300 [7620] < L	= +5% L / -0

ALL DIMENSIONS SHOWN
ARE FOR REFERENCE ONLY.

PASTERNAK
an INFINITI® brand

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THIRD-ANGLE PROJECTION

THE INFORMATION AND
DESIGN IN THIS DOCUMENT
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SHEET 1 OF 1

SCALE N/A

SIZE A

CAGE CODE 53919

DRAWN BY K.DANG

ITEM NO. PE4918

REV A

Semirigid Coax Cable 0.020 Diameter With Copper Outer Conductor

RF Cables Technical Data Sheet

PE-020SR

Configuration

- Semi-Rigid Cable
- 1 Shield(s)

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		27	GHz
Impedance		50		Ohms
Dielectric Withstanding Voltage (AC)			750	Vrms

Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	1	10	20			GHz
Attenuation, Max	85 278.87	280 918.64	380 1,246.72			dB/100ft dB/100m
Input Power (CW), Max	7.5	2.6	2			Watts

Mechanical Specifications

Min. Bend Radius (Repeated) 0.05 in [1.27 mm]

Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper Clad Steel, Silver, 1 Strand	0.004 in 0.1 mm
Conductor Type	Solid	
Dielectric	PTFE	0.015 in [0.38 mm]
Outer Conductor	Copper	0.02 in 0.51 mm
Jacket	Tan	

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Semirigid Coax Cable 0.020 Diameter With Copper Outer Conductor PE-020SR](#)

Semirigid Coax Cable 0.020 Diameter With Copper Outer Conductor

RF Cables Technical Data Sheet

PE-020SR

Environmental Specifications

Temperature

Operating Range

-55 to +85 deg C

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

Plotted and Other Data

Notes:

Semirigid Coax Cable 0.020 Diameter With Copper 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.

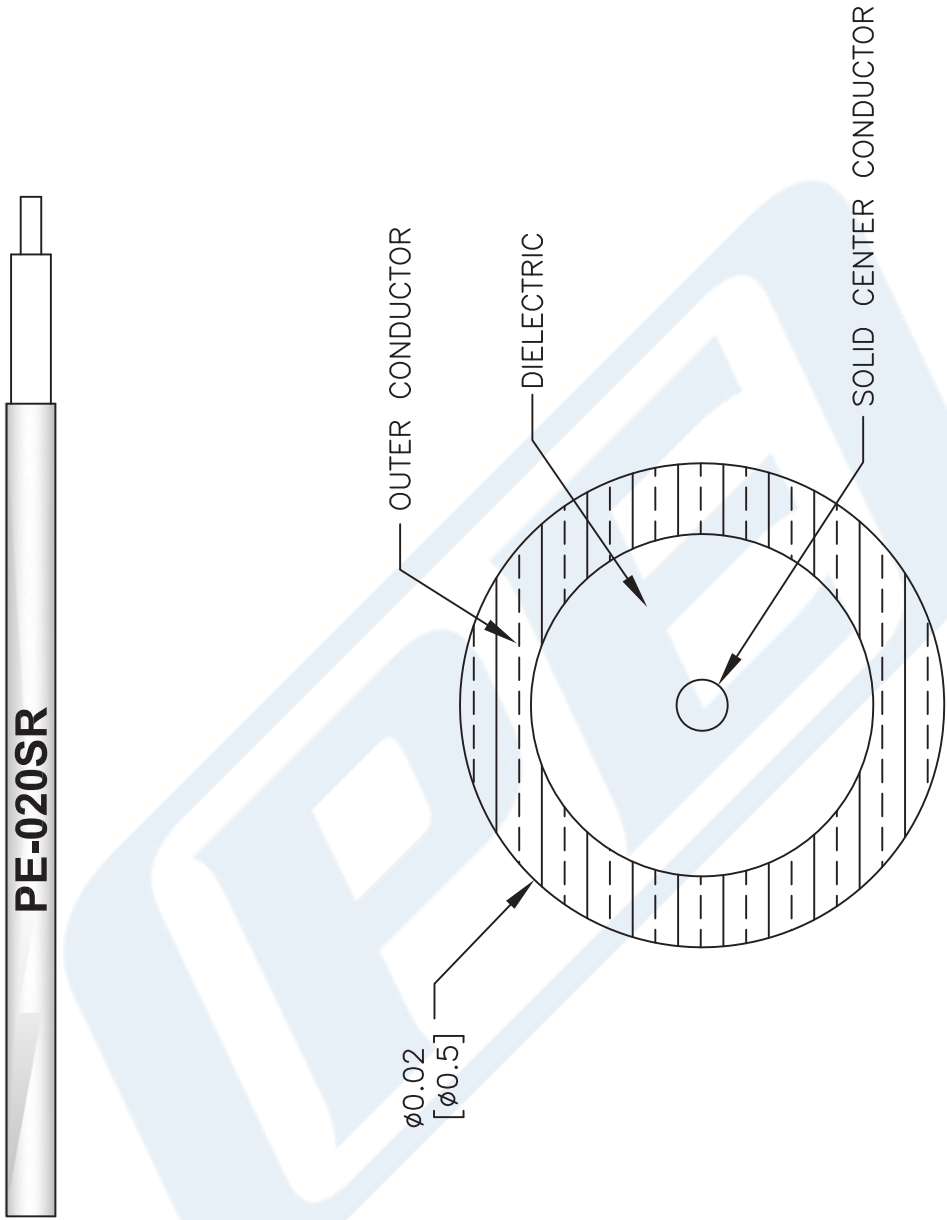
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Semirigid Coax Cable 0.020 Diameter With Copper Outer Conductor PE-020SR](#)

URL: <https://www.pasternack.com/semirigid-0.020-50-ohm-coax-cable-copper-pe-020sr-p.aspx>

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PE-020SR CAD Drawing

Semirigid Coax Cable 0.020 Diameter With Copper Outer Conductor



NOTES:
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2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
3. DIMENSIONS ARE IN INCHES [mm].

DWG TITLE
PE-020SR

FSCM NO. 53919

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41742

SIZE A

SCALE N/A

CAD FILE 111616