



TNC Male Connector Crimp/Crimp Attachment for RG55, RG142, RG223, RG400

RF Connectors Technical Data Sheet

PE4047

Configuration

- TNC Male Connector
- MIL-STD-348A
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: RG55, RG142, RG223, RG400

Features

- Max. Operating Frequency 6 GHz
- Good VSWR of 1.5:1
- Gold Plated Brass Contact
- 30 µin minimum contact plating

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE4047 TNC male connector with crimp/crimp attachment for RG55, RG142, RG223 and RG400 is part of our full line of RF components available for same-day shipping. Our TNC male connector operates up to a maximum frequency of 6 GHz and offers good VSWR of 1.5:1.

Our TNC male connector PE4047 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		6	GHz
VSWR			1.5:1	
Operating Voltage (AC)			500	Vrms

Mechanical Specifications

Size

Length	1.097 in [27.86 mm]
Width/Dia.	0.571 in [14.50 mm]
Weight	0.033 lbs [14.97 g]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [TNC Male Connector Crimp/Crimp Attachment for RG55, RG142, RG223, RG400 PE4047](#)



TNC Male Connector Crimp/Crimp Attachment for RG55, RG142, RG223, RG400

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Material Specifications

Description	Material	Plating
Contact	Brass	Gold 30 µin minimum
Insulation	PTFE	
Body	Brass	Nickel 100 µin minimum
Coupling Nut	Brass	Nickel 100 µin minimum
Crimp Sleeve	Brass	Nickel

Environmental Specifications

Temperature

Operating Range -65 to +165 deg C

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

Plotted and Other Data

Notes:

TNC Male Connector Crimp/Crimp Attachment for RG55, RG142, RG223, RG400 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: [TNC Male Connector Crimp/Crimp Attachment for RG55, RG142, RG223, RG400 PE4047](#)

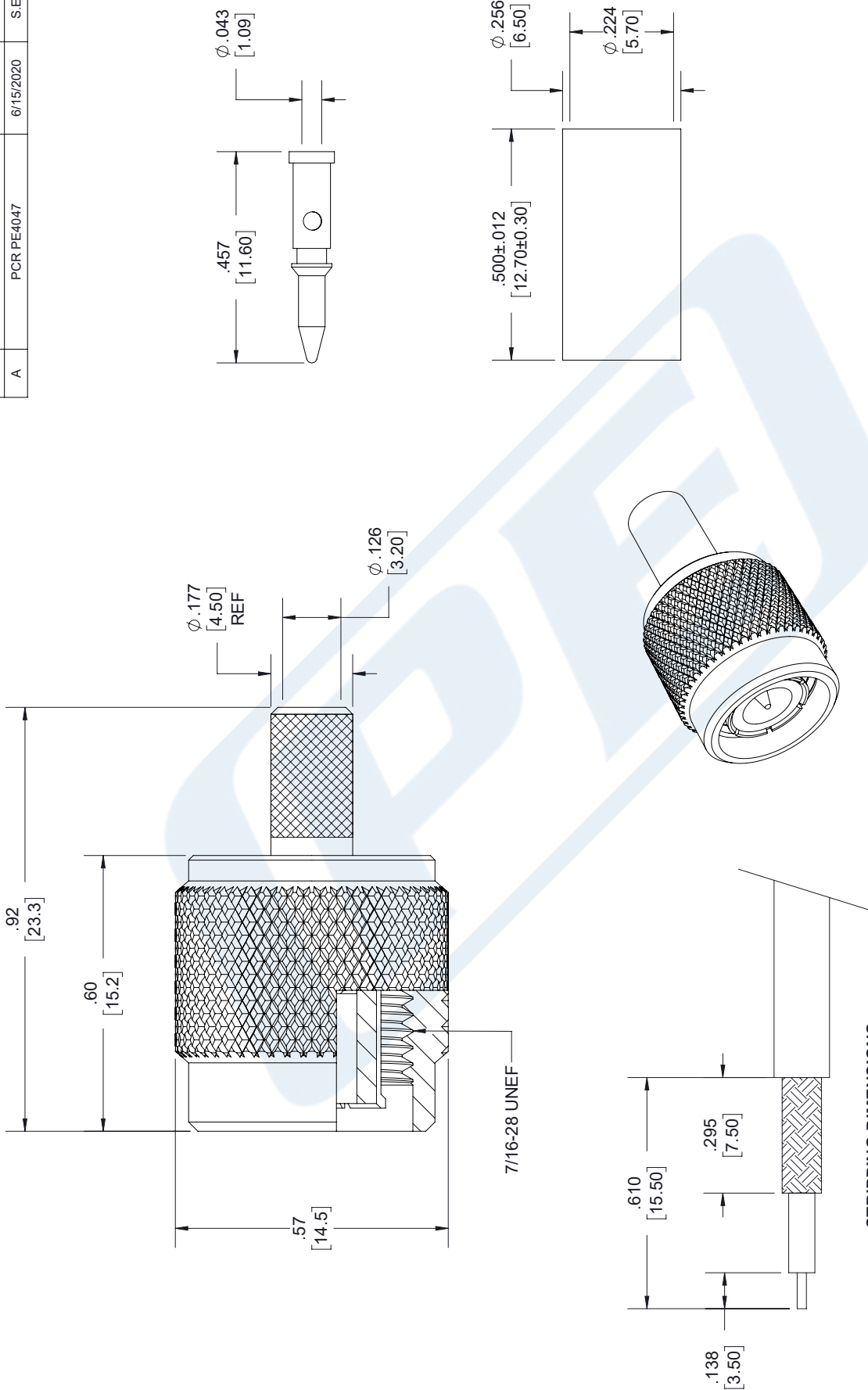
URL: <https://www.pasternack.com/tnc-male-rg55-rg142-rg223-rg400-connector-pe4047-p.aspx>

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.

PE4047 CAD Drawing

TNC Male Connector Crimp/Crimp Attachment for RG55, RG142, RG223, RG400

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	PCR PE4047	6/15/2020	S. ELLIS



STRIPPING DIMENSIONS

- NOTES:
- CABLE ATTACHMENT:
 - OUTER: CRIMP.
 - INNER: SOLDER/CRIMP.
 - CRIMP SIZE REQUIRED:
 - FERRULE: .213 [5.41] HEX. CRIMP TOOL.
 - CONTACT: .068 [1.73] HEX. CRIMP TOOL.

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

TOLERANCES:
 .X = ±.2 [5.08] FRACTIONS ± 1/32
 .XX = ±.02 [.51] ANGLES ± 1°
 .XXX = ±.005 [.13] 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.



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SHEET 1 OF 1
SCALE N/A



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ITEM NO. PE4047

SIZE A CAGE CODE 53919 DRAWN BY K.DANG

REV A



SMA Female Connector Clamp/Solder Attachment
for RG55, RG58, RG141, RG142, RG223, RG303,
RG400, PE-C195, PE-P195, LMR-195

RF Connectors
Technical Data Sheet

PE4031

Configuration

- SMA Female Connector
- MIL-STD-348
- 50 Ohms
- Straight Body Geometry
- RG55, RG58, RG141, RG142, RG223, RG303, RG400, PE-C195, PE-P195, LMR-195 Interface Type
- Clamp/Solder Attachment

Features

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

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE4031 SMA female connector with clamp/solder attachment for RG55, RG58, RG141, RG142, RG223, RG303, RG400, PE-C195, PE-P195 and LMR-195 is part of our full line of RF components available for same-day shipping.

Our SMA female connector PE4031 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	0.705 in [17.91 mm]
Width/Dia.	0.312 in [7.92 mm]
Weight	0.009 lbs [4.08 g]

Material Specifications

Description	Material	Plating
Contact		Gold MIL-G-45204
Insulation	PTFE	
Body	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 Female Connector Clamp/Solder Attachment for RG55, RG58, RG141, RG142, RG223, RG303, RG400, PE-C195, PE-P195, LMR-195 PE4031](#)



SMA Female Connector Clamp/Solder Attachment
for RG55, RG58, RG141, RG142, RG223, RG303,
RG400, PE-C195, PE-P195, LMR-195

RF Connectors
Technical Data Sheet

PE4031

Environmental Specifications

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

Plotted and Other Data

Notes:

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 Clamp/Solder Attachment for RG55, RG58, RG141, RG142, RG223, RG303, RG400, PE-C195, PE-P195, LMR-195 PE4031](#)

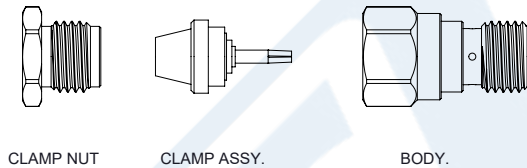


SMA Female Connector Clamp/Solder Attachment
for RG55, RG58, RG141, RG142, RG223, RG303,
RG400, PE-C195, PE-P195, LMR-195

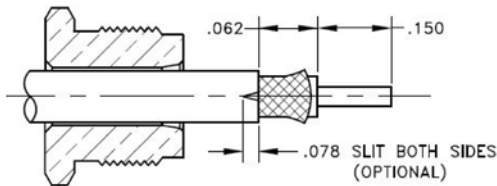
RF Connectors
Technical Data Sheet

PE4031

Assembly Instruction

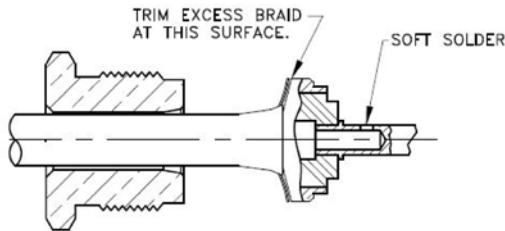


CABLE ASSEMBLY INSTRUCTIONS.

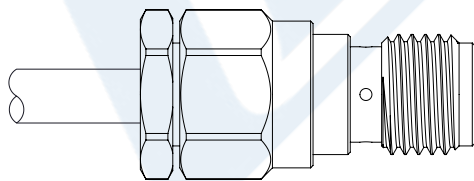


1. SLIDE NUT ONTO CABLE AS SHOWN. CUT CABLE SQUARE. TRIM CABLE TO DIMENSIONS SHOWN BEING CAREFUL NOT TO NICK THE BRAID OR CENTER CONDUCTOR. ROTATE DIELECTRIC TO FLARE BRAID.

NOTE: TWO SLITS IN THE JACKET 180° APART AS SHOWN MAY BE NEEDED TO PRESS JACKET TO SHOULDER.



2. SLIDE CLAMP ASSY OVER DIELECTRIC AND UNDER BRAID UNTIL THE DIELECTRIC BOTTOMS OUT IN CLAMP AND THE CENTER CONDUCTOR IS VISIBLE INSIDE HOLE OF CONTACT. SOLDER THE CONTACT ONTO THE CENTER CONDUCTOR. DO NOT OVERHEAT!.



3. INSERT THE ASSEMBLY INTO THE REAR BODY. HOLD THE NUT STATIONARY AND TIGHTEN THE BODY TO 15 IN LBS.

TIGHTEN →

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 Clamp/Solder Attachment for RG55, RG58, RG141, RG142, RG223, RG303, RG400, PE-C195, PE-P195, LMR-195 PE4031](#)



SMA Female Connector Clamp/Solder Attachment
for RG55, RG58, RG141, RG142, RG223, RG303,
RG400, PE-C195, PE-P195, LMR-195

RF Connectors
Technical Data Sheet

PE4031

SMA Female Connector Clamp/Solder Attachment for RG55, RG58, RG141, RG142, RG223, RG303, RG400, PE-C195, PE-P195, LMR-195 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.

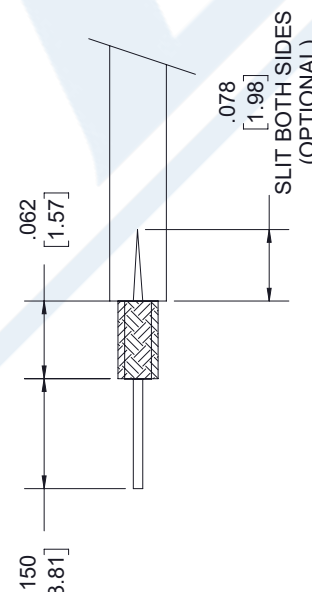
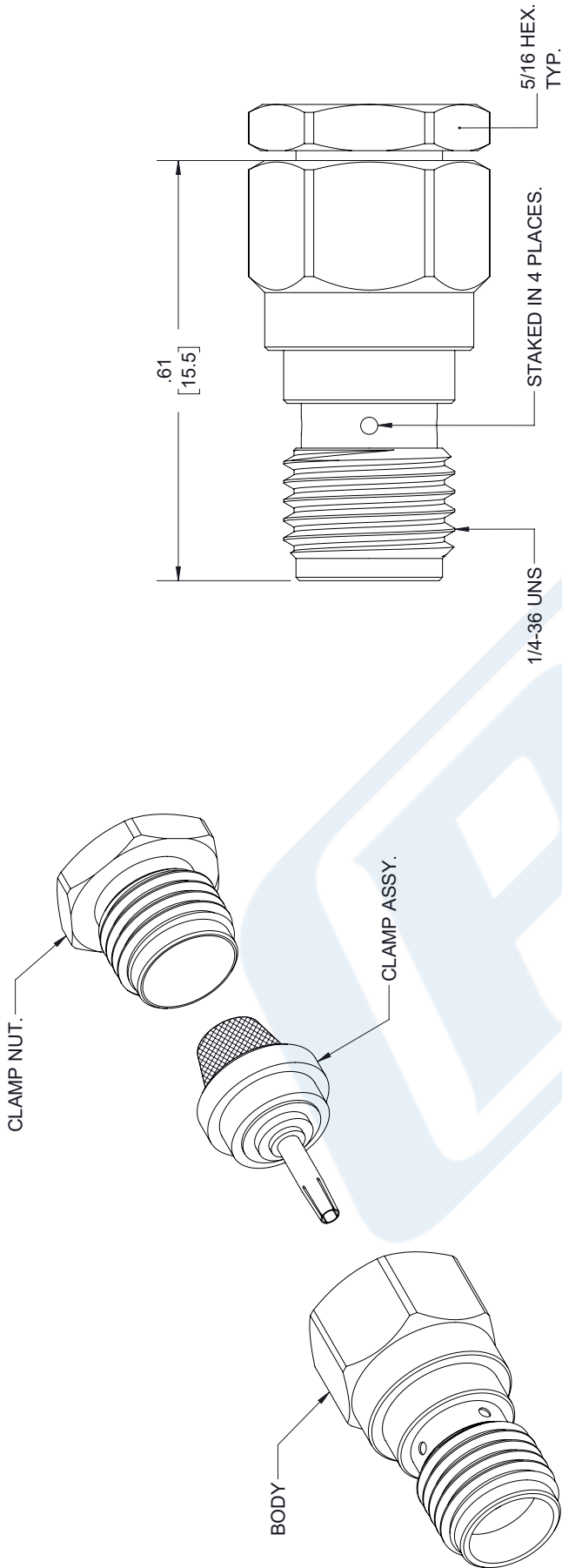
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Female Connector Clamp/Solder Attachment for RG55, RG58, RG141, RG142, RG223, RG303, RG400, PE-C195, PE-P195, LMR-195 PE4031](https://www.pasternack.com/sma-female-standard-rg58-rg55-rg142-rg223-rg400-connector-pe4031-p.aspx)

URL: <https://www.pasternack.com/sma-female-standard-rg58-rg55-rg142-rg223-rg400-connector-pe4031-p.aspx>

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PE4031 CAD Drawing

SMA Female Connector Clamp/Solder Attachment for RG55, RG58, RG141, RG142, RG223, RG303, RG400, PE-C195, PE-P195, LMR-195



STRIPPING DIMENSIONS

NOTES:

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

STANDARD TOLERANCES

- .X ±0.2
- .XX ±0.01
- .XXX ±0.005

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES



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DWG TITLE

PE4031

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 12/13/18

SCALE N/A

SIZE A

7361



53 Ohm Flexible RG55 Coax Cable Double Shielded with Black PE Jacket

TECHNICAL DATA SHEET

RG55B/U

53 Ohm Flexible RG55 Coax Cable Double Shielded with Black PE Jacket

Configuration

Inner Conductor Material and Plating	Copper, Silver
Dielectric Type	PE
Shield Materials	Tinned Copper Braid, Tinned Copper Braid
Jacket Material and Color	PE, Black

Electrical Specifications

Impedance, Ohms	53
Velocity of Propagation, %	66
Maximum Operating Frequency, GHz	3
Capacitance, pF/ft [pF/m]	28.8 [94.49]

Electrical Specifications by Frequency

Frequency 1

Frequency, MHz	10
Attenuation, dB/100ft [dB/100m]	1.35 [4.43]

Frequency 2

Frequency, MHz	100
Attenuation, dB/100ft [dB/100m]	4.3 [14.11]

Frequency 3

Frequency, MHz	1000
Attenuation, dB/100ft [dB/100m]	16.5 [54.13]

Frequency 4

Frequency, GHz	3
Attenuation, dB/100ft [dB/100m]	32 [104.99]

Mechanical Specifications

Inner Conductor

Number of Strands	1
Material	Copper
Plating	Silver
Diameter, in [mm]	0.032 [0.81]

Dielectric:

Type	PE
Diameter, in [mm]	0.116 [2.95]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [53 Ohm Flexible RG55 Coax Cable Double Shielded with Black PE Jacket RG55B/U](#)

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53 Ohm Flexible RG55 Coax Cable Double
Shielded with Black PE Jacket

TECHNICAL DATA SHEET

RG55B/U

Shield:

Number of	2
Material 1	Tinned Copper Braid
Material 2	Tinned Copper Braid

Jacket:

Material	PE
Diameter, in [mm]	0.202 [5.13]
Color	Black
Weight, lbs/ft [Kg/m]	0.035 [0.05]

Compliance Certifications (visit www.Pasternack.com for current document)

Plotted and Other Data

Notes: Values at 25 °C, sea level

53 Ohm Flexible RG55 Coax Cable Double Shielded with Black PE Jacket from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

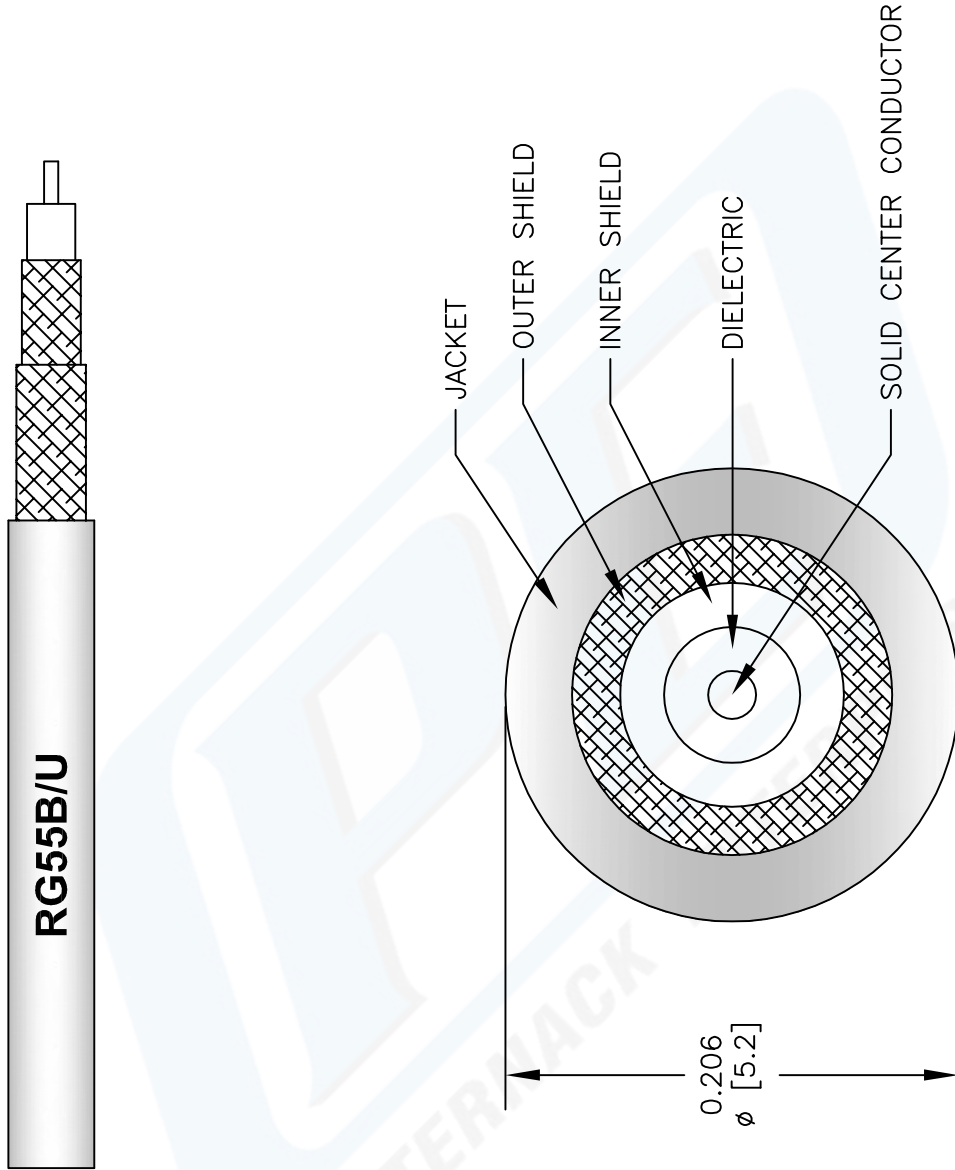
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [53 Ohm Flexible RG55 Coax Cable Double Shielded with Black PE Jacket RG55B/U](#)

URL: <http://www.pasternack.com/flexible-0.206-rg55-53.5-ohm-coax-cable-pe-jacket-rg55b-u-p.aspx>

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RG55B/U CAD Drawing

53 Ohm Flexible RG55 Coax Cable Double Shielded with Black PE Jacket



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DWG TITLE
RG55B/U

REV. A | FSCM NO. 53919

SCALE N/A

SIZE A

CAD FILE 040113-A

147

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