PASTERNACK®
THE ENGINEER'S RF SOURCE

TNC Male Connector Crimp/Crimp Attachment for
RG55, RG142, RG223, RG400, RG141

RF Connectors Technical Data Sheet   PE4047

Configuration
- TNC Male Connector
- MIL-STD-348A
- 50 Ohms
- Straight Body Geometry

- RG55, RG142, RG223, RG400, RG141 Interface Type
- Crimp/Crimp Attachment

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, RG400 and RG141 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   0.034 lbs [15.42 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, RG141 PE4047

RF Connectors Technical Data Sheet · PE4047

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, RG141 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: TNC Male Connector Crimp/Crimp Attachment for RG55, RG142, RG223, RG400, RG141 PE4047

URL: https://www.pasternack.com/tnc-male-standard-rg55-rg141-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.
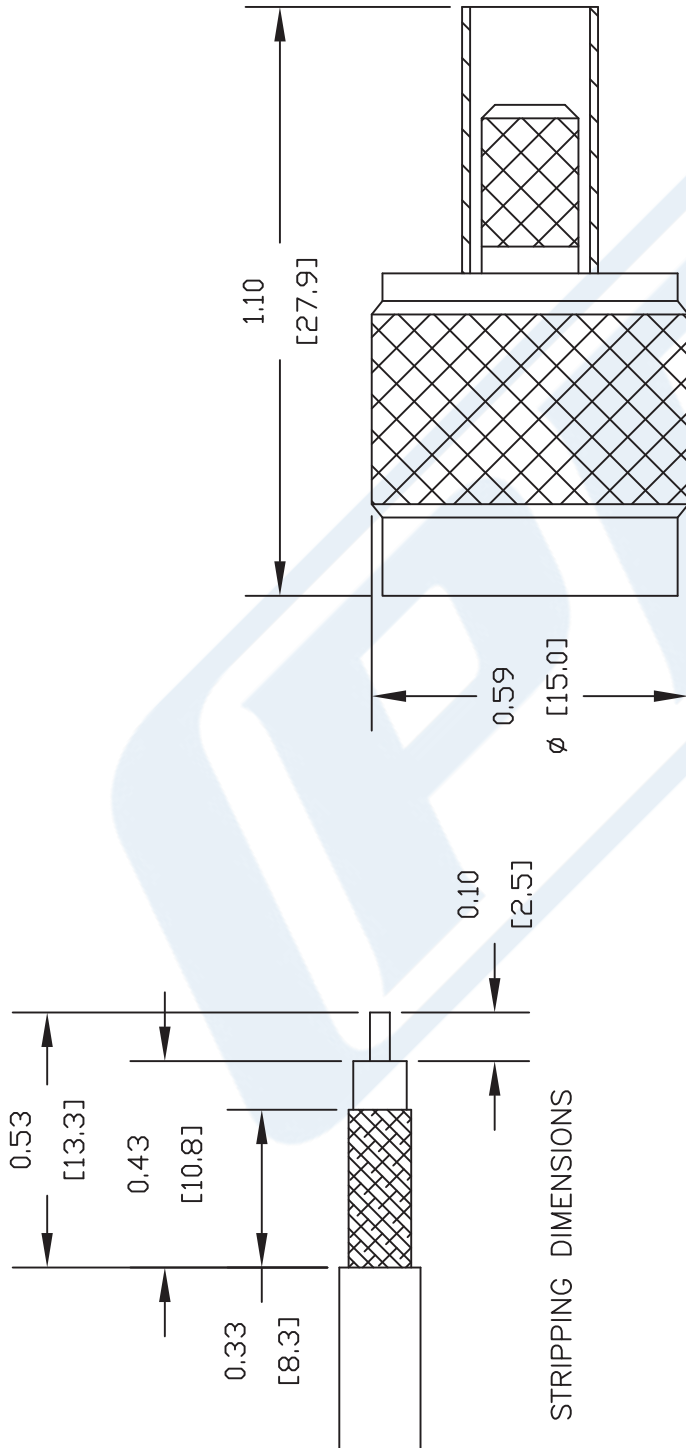
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PE4047 CAD Drawing
TNC Male Connector Crimp/Crimp Attachment for RG55, RG142, RG223, RG400, RG141

1.10
[27.9]

0.59
Ø [15.0]

0.10
[2,5]

0.53
[13.3]

0.43
[10.8]

0.33
[8.3]

STRIPPING DIMENSIONS

CRIMP SIZES REQUIRED

CONTACT: .068" HEX CRIMP TOOL
FERRULE: .213" HEX CRIMP TOOL

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.

DWG TITLE	FSCM NO. 53919	CAD FILE 042209	SCALE N/A	SIZE A	127
PE4047					
REV. -					

PE4047 REV 2.2

3

MATERIALS

BODY	BRASS NICKEL PLATED
CONTACT	GOLD PLATED
INSULATOR	PTFE
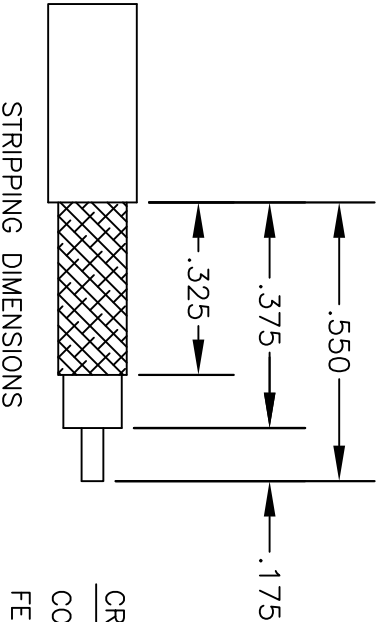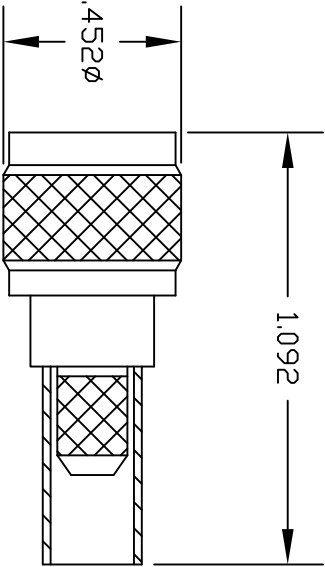
.452ø

1.092

.550

.375

.325

.175

STRIPPING DIMENSIONS

CRIMP SIZES REQUIRED

CONTACT: .068" HEX CRIMP TOOL
FERRULE: .213" HEX CRIMP TOOL

DWG TITLE
PE4521

DES.

MINI UHF MALE, CRIMP ATTACHMENT FOR
RG55, RG142, RG223 & RG400

SIZE A	FSCM NO. 53919	CAD FILE 052102	SCALE N/A	127

NOTES:
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.

Flexible RG223 Coax Cable Double Shielded with Black PVC Jacket

TECHNICAL DATA SHEET	RG223/U

Configuration

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

Electrical Specifications

Impedance, Ohms	50
Velocity of Propagation, %	66
Maximum Operating Frequency, GHz	12.4
Capacitance, pF/ft [pF/m]	30.8 [101.05]
Maximum Operating Voltage, Volts	1,900

Electrical Specifications by Frequency

Frequency 1

Frequency, MHz	100
Attenuation, dB/100ft [dB/100m]	4 [13.12]

Frequency 2

Frequency, MHz	400
Attenuation, dB/100ft [dB/100m]	8.2 [26.9]

Frequency 3

Frequency, MHz	1000
Attenuation, dB/100ft [dB/100m]	13.4 [43.96]

Frequency 4

Frequency, GHz	3
Attenuation, dB/100ft [dB/100m]	24.8 [81.36]

Frequency 5

Frequency, GHz	5
Attenuation, dB/100ft [dB/100m]	33.5 [109.91]

Frequency 6

Frequency, GHz	11
Attenuation, dB/100ft [dB/100m]	54.1 [177.49]

Mechanical Specifications

Temperature

Operating Range, deg C	-20 to +80

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Flexible RG223 Coax Cable Double Shielded with Black PVC Jacket RG223/U

Flexible RG223 Coax Cable Double Shielded with Black PVC Jacket

Inner Conductor
Number of Strands	1
Material	Copper
Plating	Silver
Diameter, in [mm]	0.035 [0.89]

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

Shield:
Number of	2
Material 1	Silver Plated Copper Braid
Material 2	Silver Plated Copper Braid
Diameter, in [mm]	0.156 [3.96]

Jacket:
Material	PVC
Diameter, in [mm]	0.21 [5.33]
Color	Black
One Time Minimum Bend Radius, in [mm]	0.21 [5.33]
Repeated Minimum Bend Radius, in [mm]	1 [25.4]
Weight, lbs/ft [Kg/m]	0.038 [0.06]

Compliance Certifications (visit www.Pasternack.com for current document)
RoHS Compliant
REACH Compliant   06/18/2012

Plotted and Other Data
Notes:
• Values at +25 °C, sea level

Flexible RG223 Coax Cable Double Shielded with Black PVC Jacket 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.
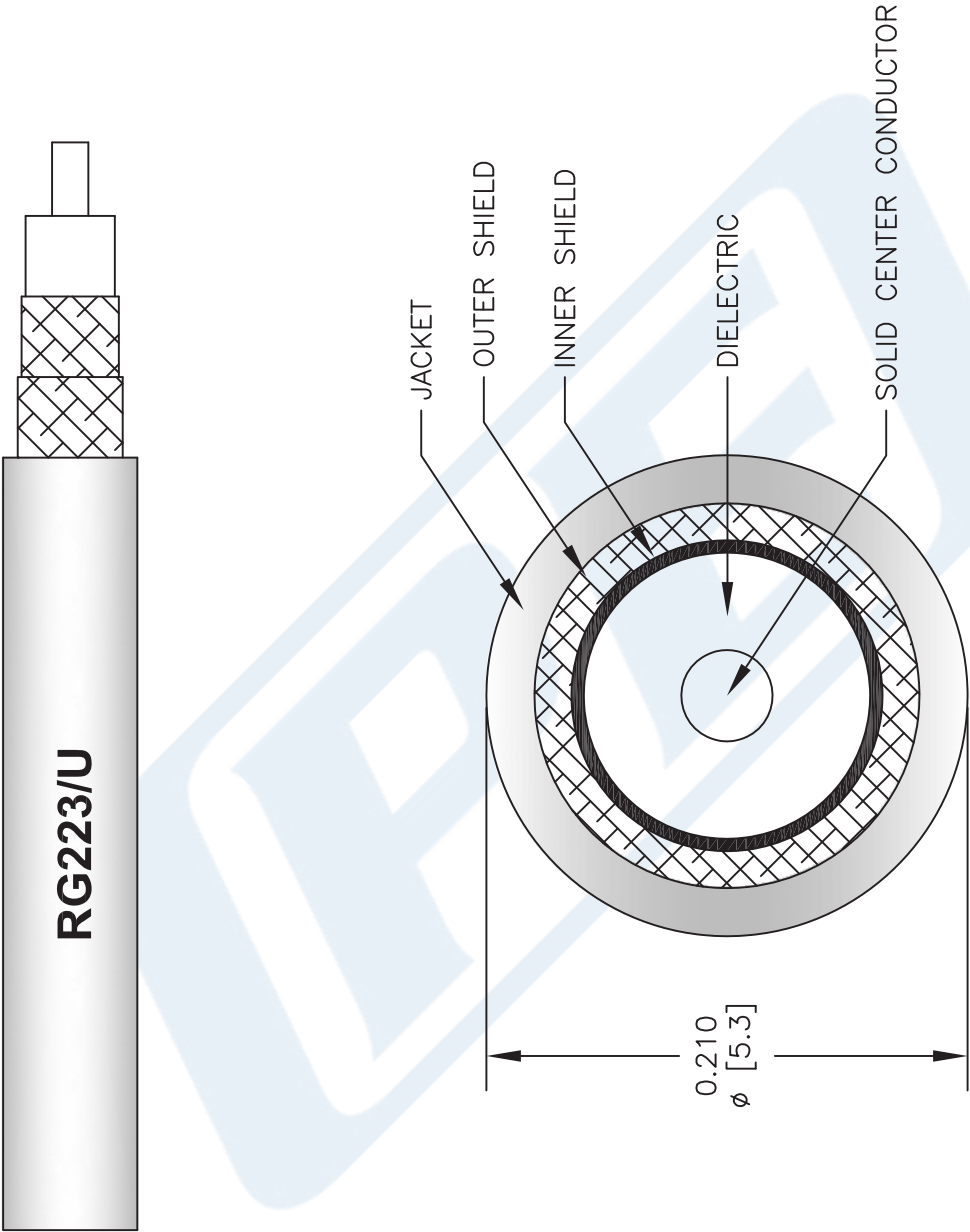
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Flexible RG223 Coax Cable Double Shielded with Black PVC Jacket RG223/U

URL: http://www.pasternack.com/flexible-0.216-rg223-50-ohm-coax-cable-pvc-jacket-rg223-u-p.aspx

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RG223/U CAD Drawing
Flexible RG223 Coax Cable Double Shielded with Black PVC Jacket

RG223/U

JACKET

OUTER SHIELD

INNER SHIELD

DIELECTRIC

SOLID CENTER CONDUCTOR

0.210 ∅ [5.3]

2233

SIZE A

SCALE N/A

CAD FILE 060508-B

DWG TITLE

RG223/U

FSCM NO. 53919

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RG223/U REV

3