N Female Connector Crimp/Solder Attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, 0.100 inch

RF Connectors Technical Data Sheet   PE4438

Configuration

- N Female Connector
- 50 Ohms
- Straight Body Geometry
- RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, 0.100 inch Interface Type
- Crimp/Solder Attachment

Features

- Gold Plated Contact

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE4438 type N female connector with crimp/solder attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100 and 0.100 inch is part of our full line of RF components available for same-day shipping.

Our type N female connector PE4438 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	1.585 in [40.26 mm]
Width/Dia.	0.625 in [15.88 mm]
Weight	0.066 lbs [29.94 g]

Material Specifications

Description	Material	Plating
Contact		Gold
Insulation	PTFE	
Body	Brass	Nickel

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: N Female Connector Crimp/Solder Attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, 0.100 inch PE4438

N Female Connector Crimp/Solder Attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, 0.100 inch

RF Connectors Technical Data Sheet   PE4438

Compliance Certifications (see product page for current document)

Plotted and Other Data
   Notes:

N Female Connector Crimp/Solder Attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, 0.100 inch 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.
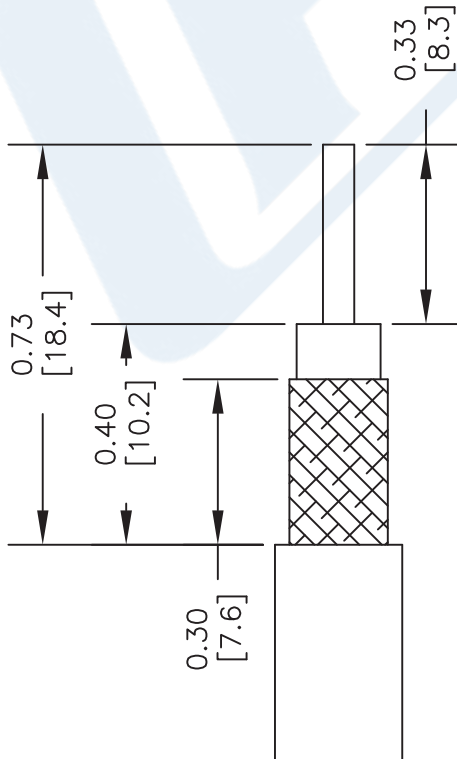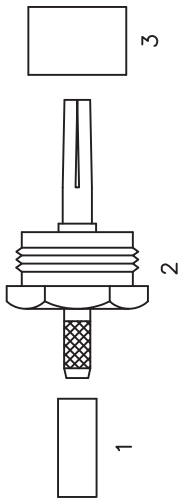
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: N Female Connector Crimp/Solder Attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, 0.100 inch PE4438

URL: https://www.pasternack.com/n-female-standard-rg174-rg316-rg188-connector-pe4438-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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PE4438 **CAD Drawing**

N Female Connector Crimp/Solder Attachment for RG174, RG316,
RG188, LMR-100, PE-B100, PE-C100, 0.100 inch

1.59
[40.3]

5/8−24 UNEF−2A

0.33
[8.3]

3

2

1

0.73
[18.4]

0.40
[10.2]

0.30
[7.6]

STRIPPING DIMENSIONS

ASSEMBLY PROCEDURES

1. STRIP CABLE AS SHOWN & SLIDE FERRULE (1)
ONTO CABLE. TIN CENTER CONDUCTOR.

2. ADD EXTENSION (2) BY SLIDING EXTENSION
BETWEEN BRAID & DIELECTRIC. SLIDE FERRULE (1)
OVER BRAID & CRIMP.

3. SOLDER CENTER CONDUCTOR THROUGH HOLE
IN CONTACT. SLIDE PTFE (3) OVER CONTACT.
SLIDE ASSEMBLY INTO BODY & TIGHTEN.

CRIMP SIZE REQUIRED

CONTACT: SOLDER
FERRULE: .128" HEX CRIMP TOOL

2233

SIZE A

SCALE N/A

CAD FILE 052202

FSCM NO. 53919

DWG TITLE
PE4438

REV. -

PE4438 REV 1.1

3

MCX Plug Connector Crimp/Solder Attachment for RG316, RG174, RG188, LMR-100, PE-B100, PE-C100, 0.100 inch

RF Connectors
Technical Data Sheet   **PE4551**

Configuration

- MCX Plug Connector
- CECC 22220
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: RG316, RG174, RG188, LMR-100, PE-B100, PE-C100, .100 inch

Features

- Max. Operating Frequency 3 GHz
- Good VSWR of 1.3:1
- Gold Plated Brass Contact
- 30 µin minimum contact plating

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE4551 MCX plug connector with crimp/solder attachment for RG316, RG174, RG188, LMR-100, PE-B100, PE-C100 and .100 inch is part of our full line of RF components available for same-day shipping. Our MCX plug connector operates up to a maximum frequency of 3 GHz and offers good VSWR of 1.3:1.

Our MCX plug connector PE4551 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		3	GHz
VSWR			1.3:1	
Operating Voltage (AC)			250	Vrms

Mechanical Specifications

Size
Length   0.79 in [20.07 mm]
Width/Dia.   0.217 in [5.51 mm]

Weight   0.009 lbs [4.08 g]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: MCX Plug Connector Crimp/Solder Attachment for RG316, RG174, RG188, LMR-100, PE-B100, PE-C100, 0.100 inch PE4551

MCX Plug Connector Crimp/Solder Attachment for RG316, RG174, RG188, LMR-100, PE-B100, PE-C100, 0.100 inch

RF Connectors
Technical Data Sheet   PE4551

Material Specifications

Description	Material	Plating
Contact	Brass	Gold 30 μin minimum
Insulation	PTFE	
Body	Brass	Nickel 100 μin minimum

Environmental Specifications
Temperature
Operating Range   -55 to +155 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data
Notes:

MCX Plug Connector Crimp/Solder Attachment for RG316, RG174, RG188, LMR-100, PE-B100, PE-C100, 0.100 inch 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: MCX Plug Connector Crimp/Solder Attachment for RG316, RG174, RG188, LMR-100, PE-B100, PE-C100, 0.100 inch PE4551
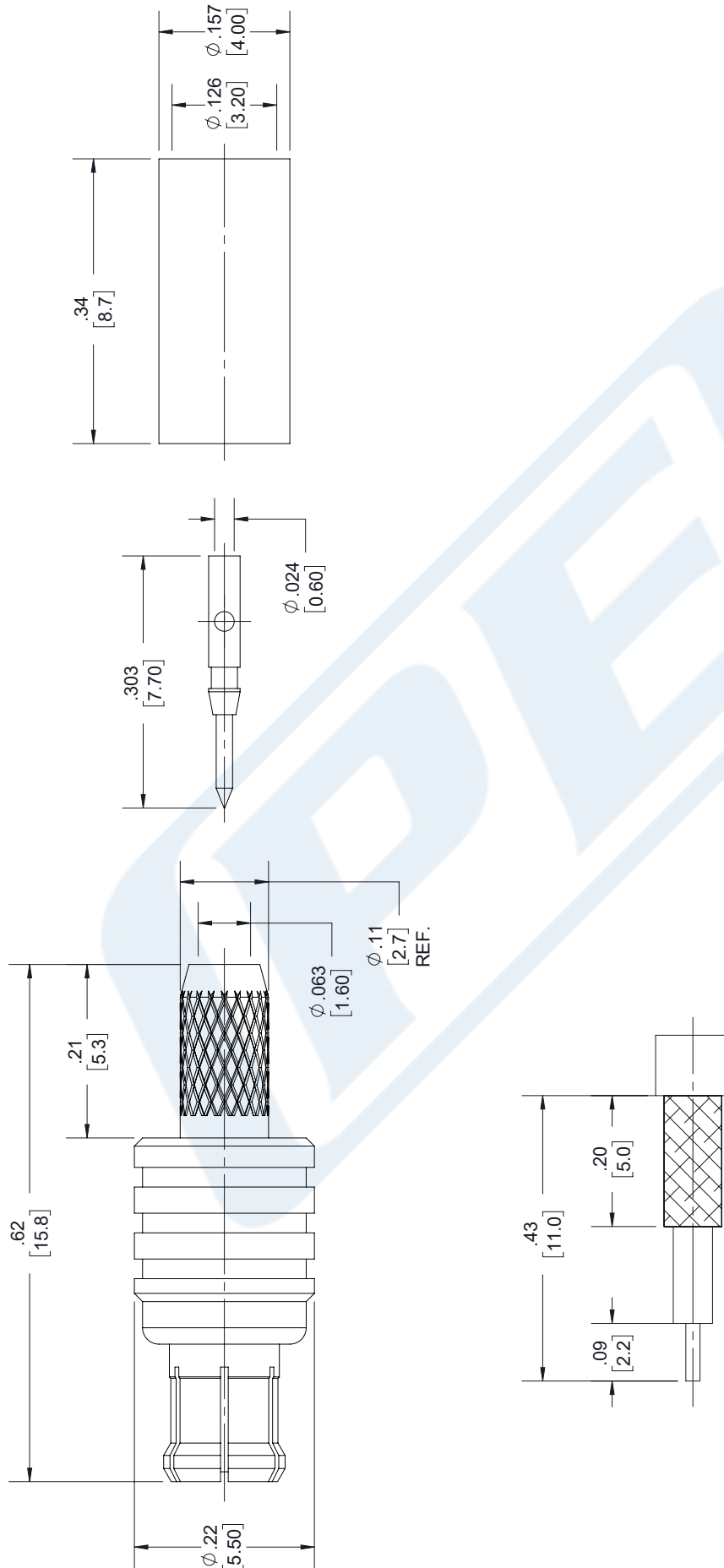
URL: https://www.pasternack.com/mcx-plug-standard-rg316-rg174-rg188-connector-pe4551-p.aspx

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PE4551 CAD Drawing

MCX Plug Connector Crimp/Solder Attachment for RG316, RG174, RG188, LMR-100, PE-B100, PE-C100, 0.100 inch
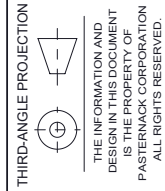

Ø .157 [4.00]
Ø .126 [3.20]
.34 [8.7]

Ø .024 [0.60]
.303 [7.70]

Ø .11 [2.7] REF.
Ø .063 [1.60]
.21 [5.3]
.62 [15.8]
Ø .22 [5.50]

.43 [11.0]
.20 [5.0]
.09 [2.2]

STRIPPING DIMENSIONS

CRIMP SIZE REQUIRED

CONTACT: SOLDER
FERRULE: .138" HEX CRIMP TOOL

REVISIONS

REV.	DESCRIPTION	DATE	APPROVED
A	PCR PE4551 20200917	10/10/2020	SRAUTUS

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THIRD-ANGLE PROJECTION

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SHEET 1 OF 1
SCALE N/A
REV A

ITEM NO. PE4551

SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	53919	SLI	

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

TOLERANCES:
.X = ± .2 [5.08]
.XX = ± .02 [.51]
.XXX = ± .005 [.13]

FRACTIONS ± 1/32
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.

T-Rev.D

Flexible RG174 Coax Cable Single Shielded with Black PVC Jacket

RF Cables
Technical Data Sheet

TIMES MICROWAVE SYSTEMS
An Amphenol Company

RG174A/U

Times Microwave Systems Coax Cable Specification
Configuration
- Flexible Cable
- 1 Shield(s)

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		1,000	MHz
Impedance		50		Ohms
Velocity of Propagation		66		%
Nominal Capacitance		31.08 [101.97]		pF/ft [pF/m]
Power@ 1GHz			17	Watts

Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	100	400	1,000			MHz
Attenuation, Typ	8.4	19	32			dB/100ft
	27.56	62.34	104.99			dB/100m

Mechanical Specifications
Diameter	0.11 in [2.79 mm}
Weight	0.009 lbs/ft [0.01 kg/m]

Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper Clad Steel, 7 Strands	0.019 in [0.48 mm]
Conductor Type	Stranded	
Dielectric	PE	0.06 in [1.52 mm]
First Shield	Tinned Copper Braid	0.078 in [1.98 mm]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Flexible RG174 Coax Cable Single Shielded with Black PVC Jacket RG174A/U

Flexible RG174 Coax Cable Single Shielded with Black PVC Jacket

RF Cables
Technical Data Sheet

TIMES MICROWAVE SYSTEMS
An Amphenol Company

RG174A/U

Jacket	PVC, Black	0.11 in [2.79 mm]

Environmental Specifications
Temperature
Operating Range   -40 to +80 deg C

Compliance Certifications (see product page for current document)
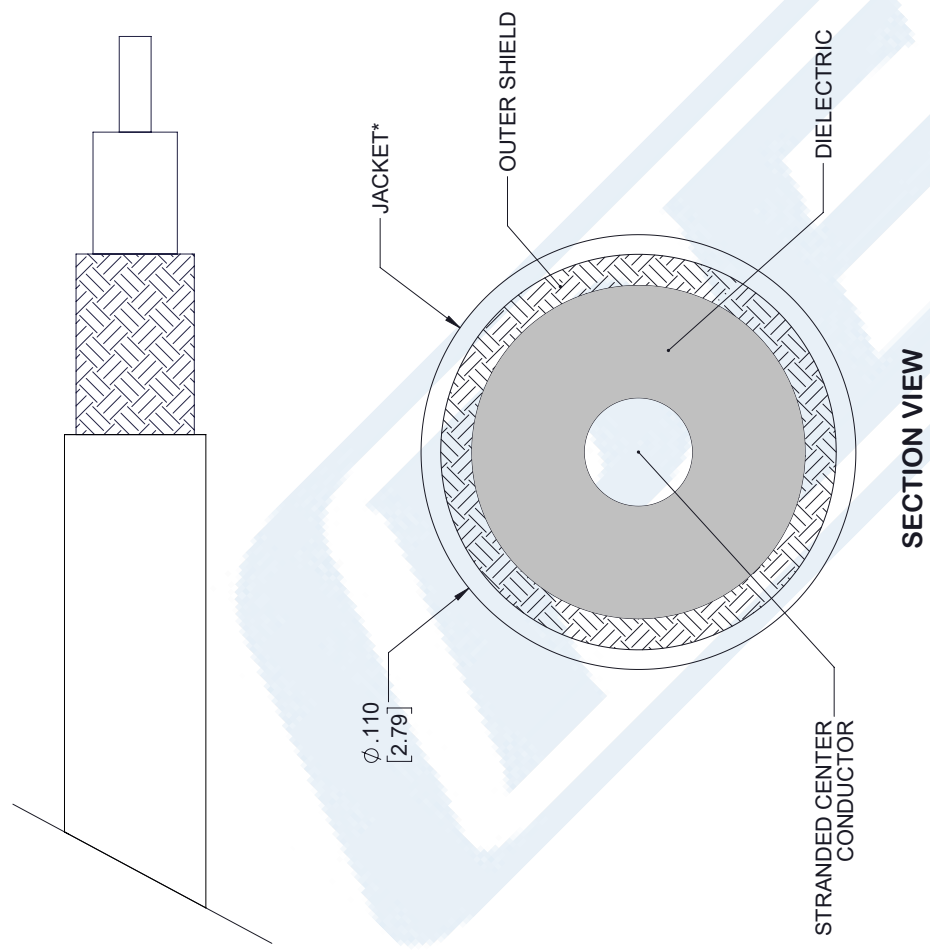
Plotted and Other Data
Notes:

Flexible RG174 Coax Cable Single 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 99.4% 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: Flexible RG174 Coax Cable Single Shielded with Black PVC Jacket RG174A/U

URL: https://www.pasternack.com/flexible-0.100-rg174-50-ohm-coax-cable-pvc-jacket-rg174a-u-p.aspx

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JACKET*

OUTER SHIELD

DIELECTRIC

STRANDED CENTER CONDUCTOR

⌀ .110 [2.79]

SECTION VIEW

NOTE:

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

STANDARD TOLERANCES
.X ± 0.2
.XX ± 0.01
.XXX ± 0.005

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DWG TITLE
RG174A/U

CAGE CODE 53919

CAD FILE 05/25/18

SCALE N/A

SIZE A

7361

RG174A/U REV 1.5

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