PASTERNACK®
THE ENGINEER'S RF SOURCE

MCX Jack Bulkhead Mount Connector Crimp/Solder Attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, 0.100 inch, .177 inch D Hole

RF Connectors Technical Data Sheet   PE4887

Configuration
- MCX Jack Connector
- CECC 22220
- 50 Ohms
- Straight Body Geometry

- RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, 0.100 inch Interface Type
- Crimp/Solder Attachment
- Bulkhead

Features
- Gold Plated Beryllium Copper Contact
- 50 µin minimum contact plating

Applications
- General Purpose Test
- Rack and Panel Mount Applications
- Custom Cable Assemblies

Description

Pasternack's PE4887 MCX jack bulkhead connector with crimp/solder attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100 and 0.100 inch (.177 inch D hole) is part of our full line of RF components available for same-day shipping. This MCX bulkhead connector allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications.

Our MCX jack bulkhead connector PE4887 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	0.682 in [17.32 mm]
Width/Dia.	0.25 in [6.35 mm]
Weight	0.005 lbs [2.27 g]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: MCX Jack Bulkhead Mount Connector Crimp/Solder Attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, 0.100 inch, .177 inch D Hole PE4887

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Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold 50 µin minimum
Insulation	PTFE	
Body	Brass	Gold 30 µin minimum
Crimp Sleeve	Brass	Gold

Compliance Certifications (see product page for current document)

Plotted and Other Data
　　Notes:

MCX Jack Bulkhead Mount Connector Crimp/Solder Attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, 0.100 inch, .177 inch D Hole 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.
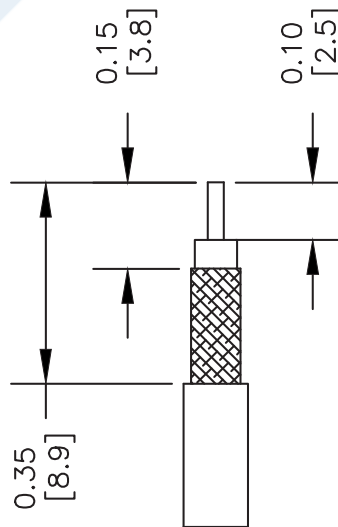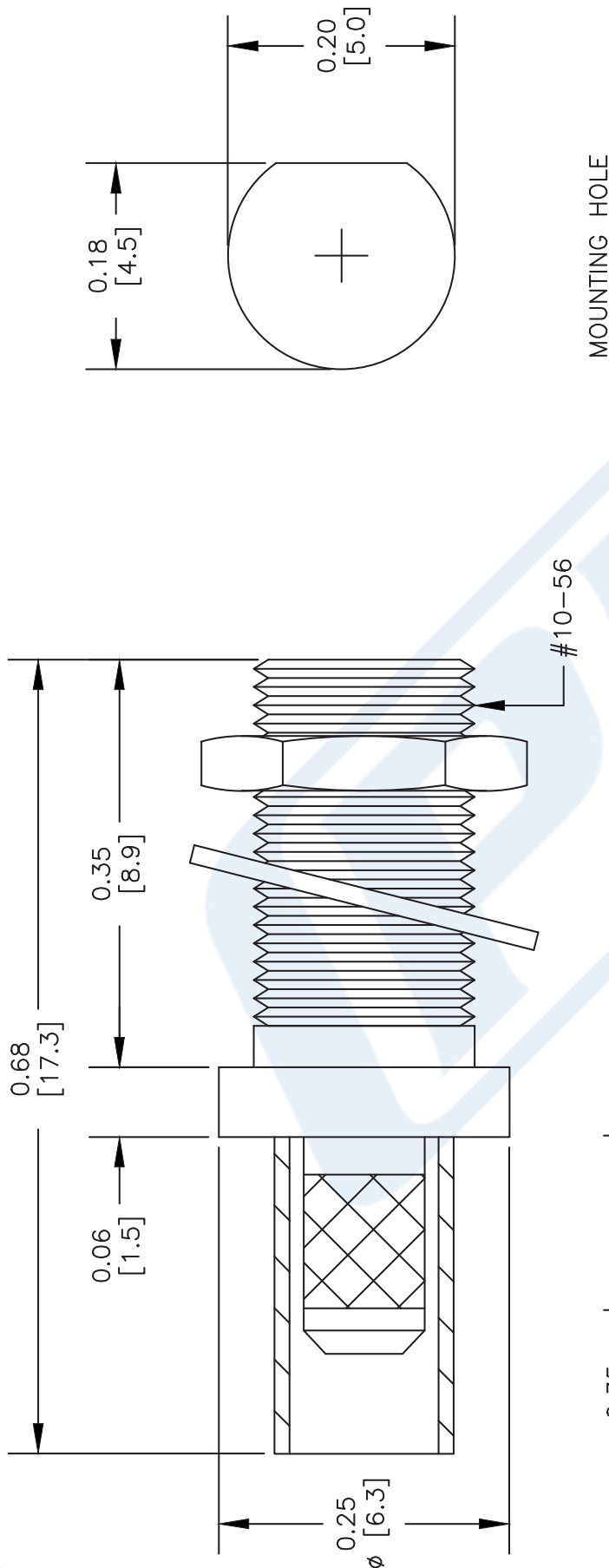
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: MCX Jack Bulkhead Mount Connector Crimp/Solder Attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, 0.100 inch, .177 inch D Hole PE4887

URL: https://www.pasternack.com/mcx-jack-standard-rg174-rg316-rg188-connector-pe4887-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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PE4887 CAD Drawing

MCX Jack Bulkhead Mount Connector Crimp/Solder Attachment for RG174,
RG316, RG188, LMR-100, PE-B100, PE-C100, 0.100 inch, .177 inch D Hole

0.20 [5.0]

0.18 [4.5]

MOUNTING HOLE

#10-56

0.35 [8.9]

0.68 [17.3]

0.06 [1.5]

0.25 ø [6.3]

0.15 [3.8]

0.10 [2.5]

0.35 [8.9]

STRIPPING DIMENSIONS

CRIMP SIZE REQUIRED

CONTACT: SOLDER
FERRULE: .128" HEX CRIMP TOOL

MATERIALS

BODY	BRASS NICKEL PLATED
CONTACT	GOLD PLATED
INSULATOR	PTFE

.125∅
(4 HOLES)

1.000
SQ.

.718

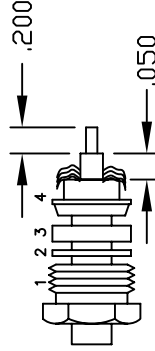MOUNTING HOLES

.500∅

1.378

.078

.655

.625-24 UNEF-2A
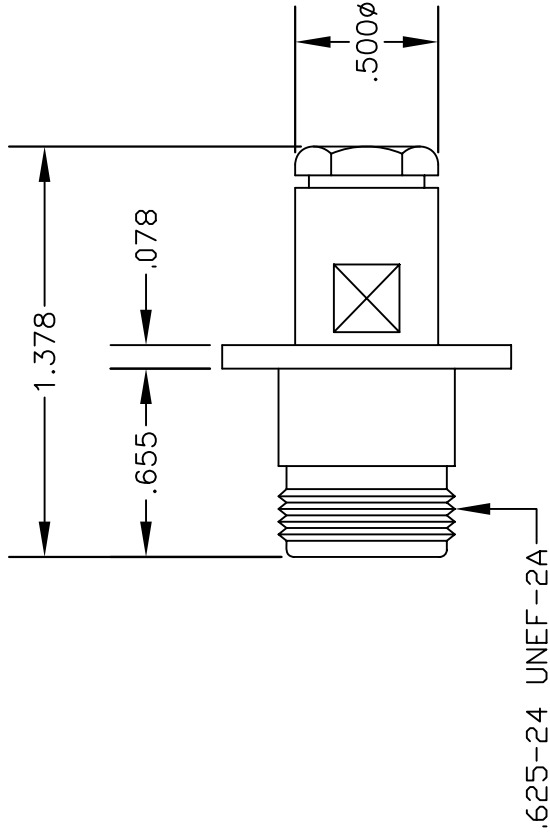
ASSEMBLY PROCEDURES

1. SLIDE CLAMP NUT (1), WASHER (2) & GASKET (3) OVER CABLE. STRIP CABLE AS SHOWN. DO NOT NICK BRAID WHILE CUTTING JACKET. TAPER END OF BRAID TO PERMIT ASSEMBLY OF BRAID CLAMP (4). SLIDE BRAID CLAMP (4) OVER BRAID & SEAT AGAINST CABLE.
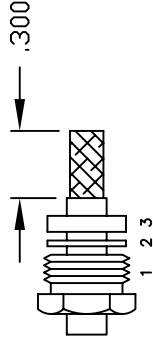
2. FORM BRAID OVER CLAMP NUT (4). TRIM BRAID BACK TO SHOULDER. CUT DIELECTRIC & CENTER CONDUCTOR TO DIMENSION SHOWN. DO NOT NICK CENTER CONDUCTOR. SOLDER CONTACT TO CENTER CONDUCTOR. REMOVE EXCESS SOLDER. DO NOT OVER HEAT DIELECTRIC. INSERT CABLE ASSEMBLY INTO BODY & TIGHTEN.

.300

1 2 3

.200

.050

1 2 3
4

NOTE: INSERT PTFE BEFORE CONTACT. WITH LARGE OPEN END SLIDING OVER CENTER CONDUCTOR & DIELECTRIC.
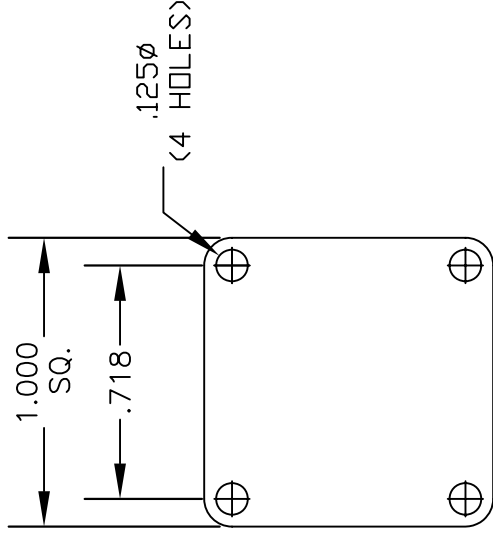
DES. | N FEMALE, PANEL MOUNT, CLAMP ATTACHMENT FOR RG174, RG188 & RG316

DWG TITLE
PE44070

SIZE A | FSCM NO. 53919 | CAD FILE 062402 | SCALE N/A

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

Flexible RG174 Coax Cable Single Shielded with Black PVC Jacket

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]

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   0.008 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

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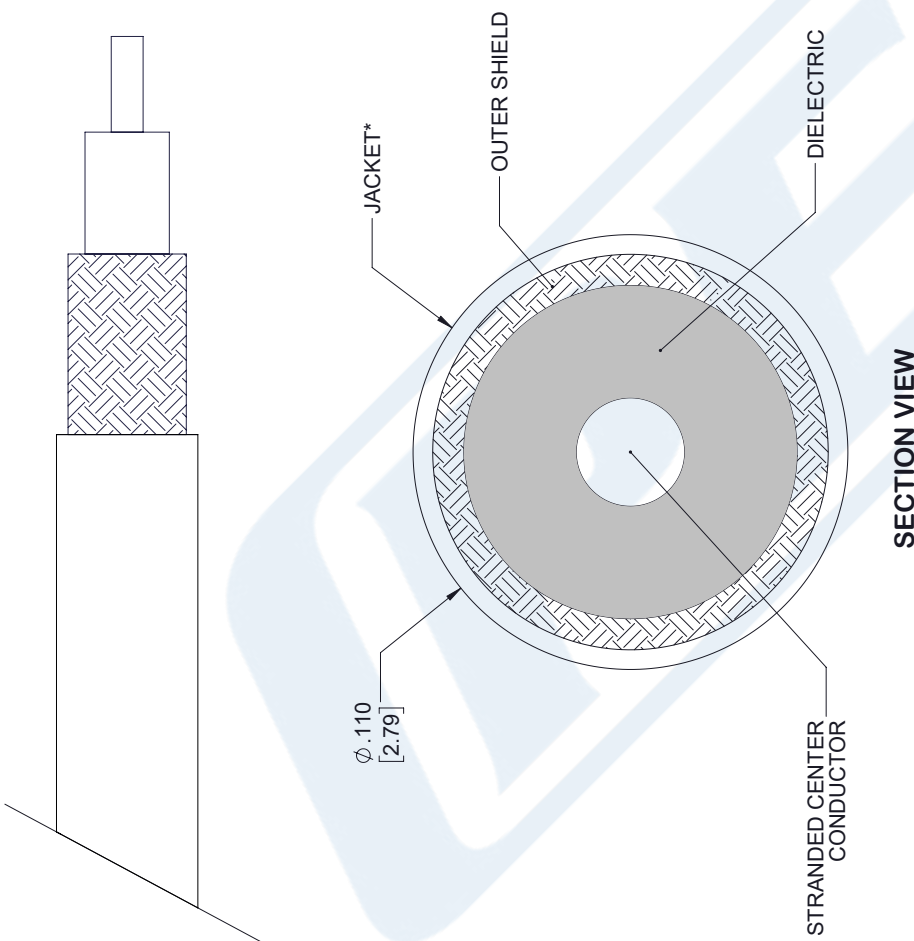
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Flexible RG174 Coax Cable Single Shielded with Black PVC Jacket RG174A/U

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

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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RG174A/U CAD Drawing

Flexible RG174 Coax Cable Single Shielded with Black PVC Jacket

SECTION VIEW

JACKET*

OUTER SHIELD

DIELECTRIC

STRANDED CENTER CONDUCTOR

⌀ .110 [2.79]

NOTE:

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

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

DWG TITLE

RG174A/U

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   05/25/18

SCALE N/A

SIZE A

7361

RG174A/U REV 1.4

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