



MCX Jack Bulkhead Mount Connector Crimp/Solder Attachment for RG178, RG196, .177 inch D Hole

RF Connectors Technical Data Sheet

PE4886

Configuration

- MCX Jack Connector
- MIL-C-39012
- 50 Ohms
- Straight Body Geometry
- RG178, RG196 Interface Type
- Crimp/Solder Attachment
- Bulkhead

Features

- Max. Operating Frequency 6 GHz
- Good VSWR of 1.41:1
- Gold over Nickel Plated Beryllium Copper Contact
- 30 μ m minimum contact plating

Applications

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

Description

Pasternack's PE4886 MCX jack bulkhead connector with crimp/solder attachment for RG178 and RG196 (.177 inch D hole) is part of our full line of RF components available for same-day shipping. Our MCX jack connector operates up to a maximum frequency of 6 GHz and offers good VSWR of 1.41:1. 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 PE4886 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			1.41:1	
Operating Voltage (AC)			250	Vrms
Dielectric Withstanding Voltage (AC)			750	Vrms
High Potential Voltage at 4 and 7 MHz			500	Vrms
Corona Discharge at 70,000 feet			190	Vrms
Insulation Resistance	10,000			MOhms

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 RG178, RG196, .177 inch D Hole PE4886](#)



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Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 1					GHz
Insertion Loss, Max	0.1					dB

Electrical Specification Notes:
RF leakage: 55 dB at 2.5 GHz.

Mechanical Specifications

Size

Length	0.655 in [16.64 mm]
Width/Dia.	0.25 in [6.35 mm]
Weight	0.006 lbs [2.72 g]
Mating Cycles	500 Cycles

Material Specifications

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

Environmental Specifications

Temperature

Operating Range	-65 to +165 deg C
Humidity	MIL-STD-202, Method 106
Shock	MIL-STD-202, Method 213, Condition B
Vibration	MIL-STD-202, Method 204, Condition B
Thermal Shock	MIL-STD-202, Method 107, Condition F
Salt Spray	MIL-STD-202, Method 101, Condition B

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

Plotted and Other Data

Notes:

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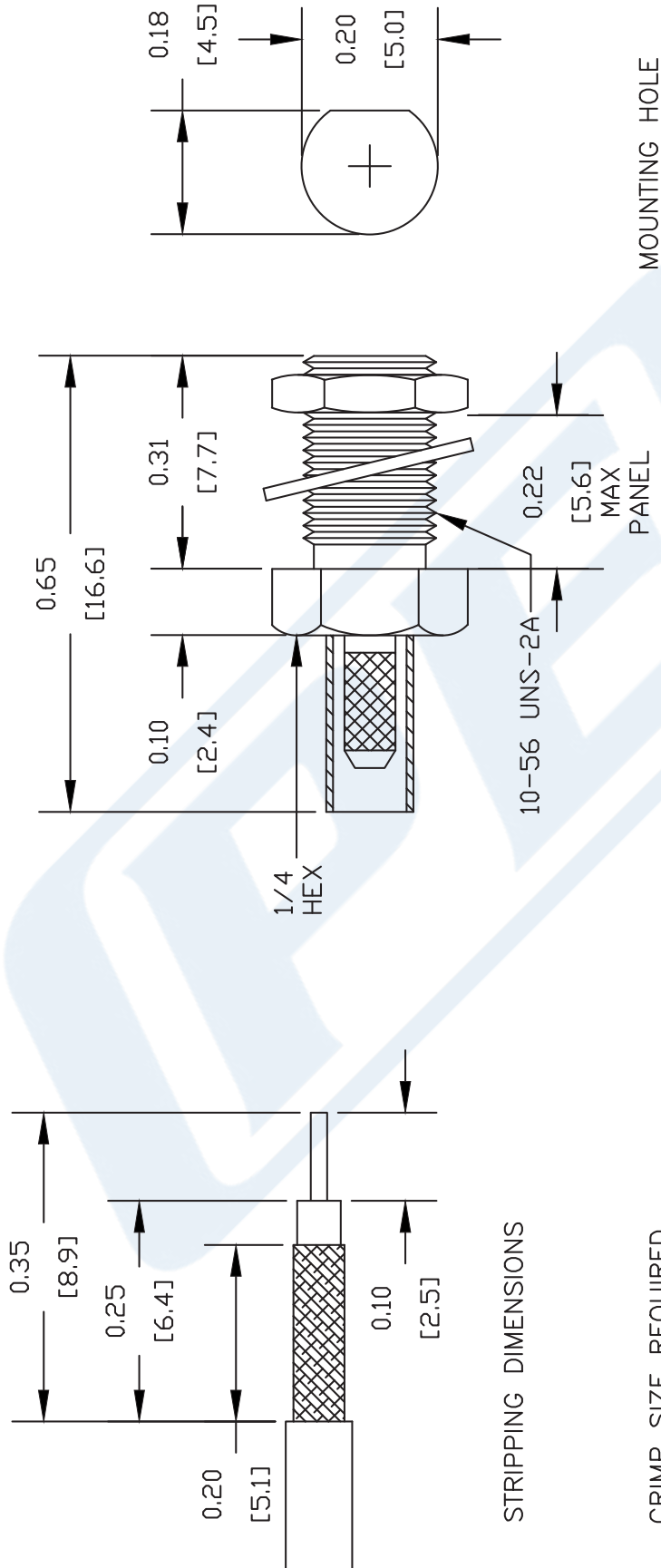
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URL: <https://www.pasternack.com/mcx-jack-standard-rg178-rg196-connector-pe4886-p.aspx>

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PE4886 CAD Drawing

MCX Jack Bulkhead Mount Connector Crimp/Solder
Attachment for RG178, RG196, .177 inch D Hole



DWG TITLE

PE4886

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3. DIMENSIONS ARE IN INCHES [mm].
4. FITS MIL-C-17 AND EQUIVALENT CABLES.

REV. -

FSCM NO. 53919

CAD FILE 061202

SCALE N/A

SIZE A

127



Pasternack Enterprises, Inc.
P.O. Box 16759 | Irvine | CA | 92623
Phone: (949) 261-1920 | Fax: (949) 261-7451
Website: www.pasternack.com | E-Mail: sales@pasternack.com



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

Plotted and Other Data

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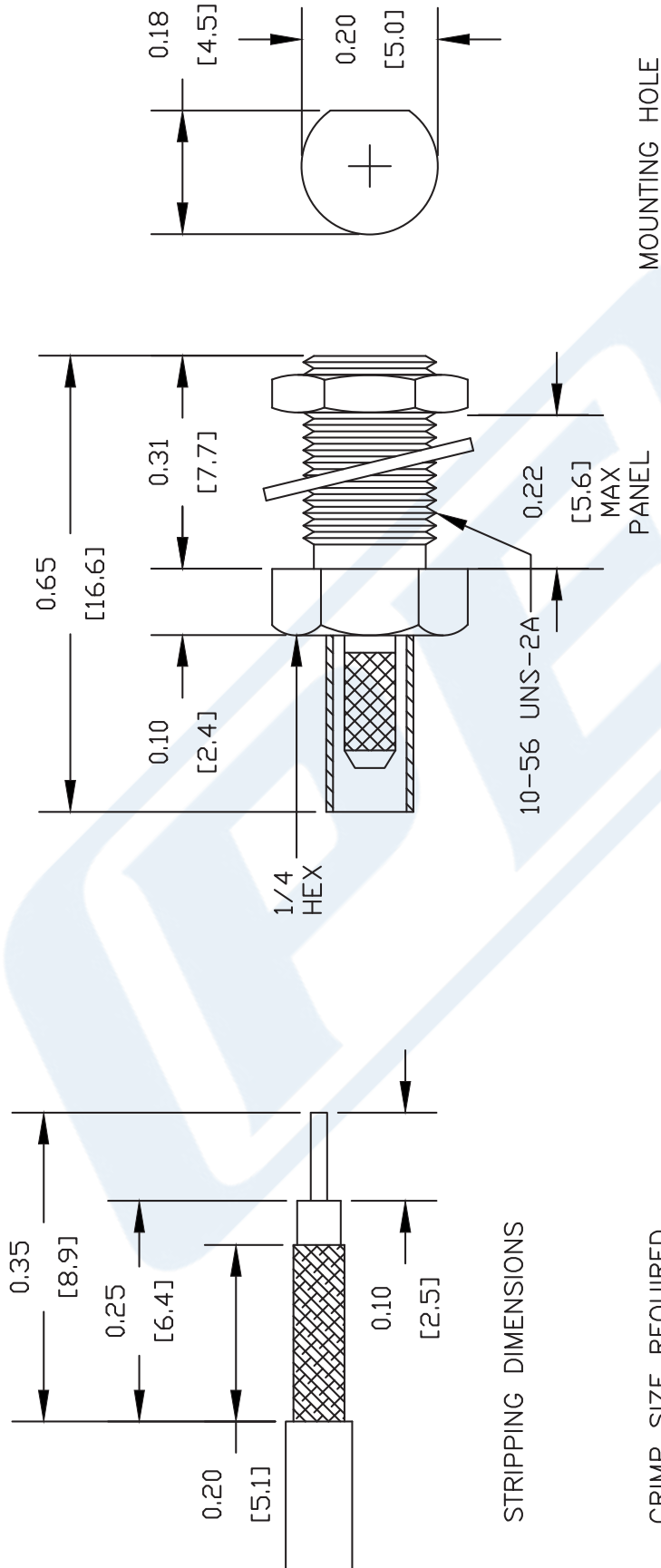
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REV. -

FSCM NO. 53919

CAD FILE 061202

SCALE N/A

SIZE A

127



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Flexible RG178 Coax Cable Single Shielded with Tan FEP Jacket

RF Cables Technical Data Sheet

RG178B/U

Configuration

- Flexible Cable
- 1 Shield(s)

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
Impedance		50		Ohms
Velocity of Propagation		70		%
Operating Voltage (AC)			1,000	Vrms
Nominal Capacitance		29.4 [96.46]		pF/ft [pF/m]

Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.4	1	3		GHz
Attenuation, Typ	13.81	27.8	44.41	78.4		dB/100ft
	45.31	91.21	145.7	257.22		dB/100m

Mechanical Specifications

Diameter	0.072 in [1.83 mm]
Weight	0.005 lbs/ft [0.01 Kg/m]
Min. Bend Radius (Repeated)	0.4 in [10.16 mm]

Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper Clad Steel, Silver, 7 Strands	0.012 in [0.3 mm]
Conductor Type	Stranded	
Dielectric	PTFE	0.034 in [0.86 mm]
First Shield	Silver Plated Copper Braid	0.051 in [1.3 mm]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Flexible RG178 Coax Cable Single Shielded with Tan FEP Jacket RG178B/U](#)

Flexible RG178 Coax Cable Single Shielded with Tan FEP Jacket

RF Cables Technical Data Sheet

RG178B/U

Jacket	FEP, Tan	0.072 in [1.83 mm]
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Environmental Specifications**Temperature**

Operating Range -55 to +200 deg C

Compliance Certifications (see [product page](#) for current document)**Plotted and Other Data**

Notes:

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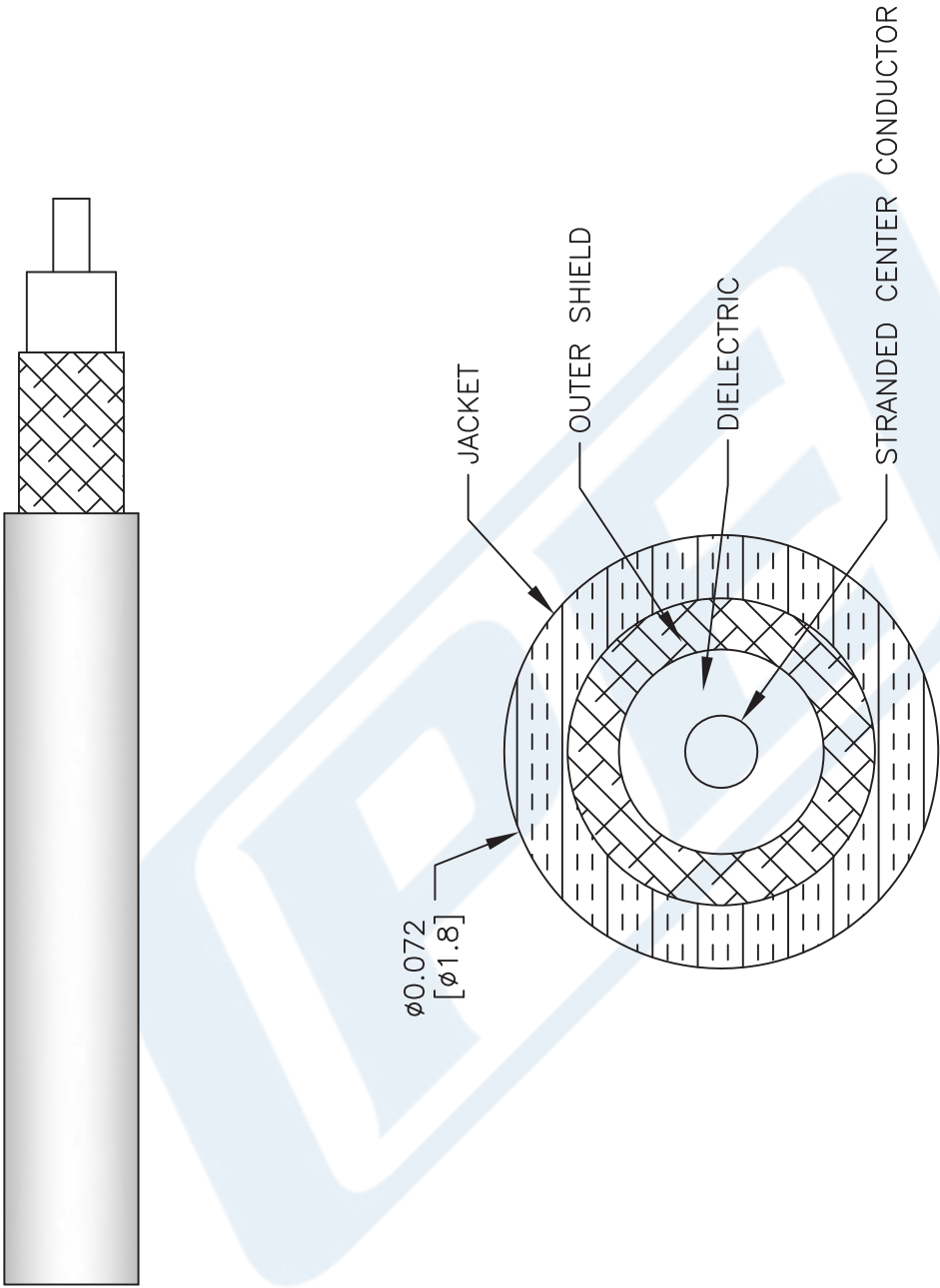
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RG178B/U CAD Drawing

Flexible RG178 Coax Cable Single Shielded with Tan FEP Jacket



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DWG TITLE
RG178B/U

CAGE CODE 53919

CAD FILE 062117

SCALE N/A

SIZE A

2233

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