



75 Ohm MCX Plug Connector Crimp/Solder Attachment for RG179, RG187

RF Connectors Technical Data Sheet

PE44298

Configuration

- MCX Plug Connector
- 75 Ohms
- Straight Body Geometry
- RG179, RG187 Interface Type
- Crimp/Solder Attachment

Features

- Max. Operating Frequency 1,000 MHz
- 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 PE44298 75 ohm MCX plug connector with crimp/solder attachment for RG179 and RG187 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 1,000 MHz and offers good VSWR of 1.3:1.

Our 75 ohm MCX plug connector PE44298 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		1,000	MHz
VSWR			1.3:1	
Operating Voltage (AC)			250	Vrms

Mechanical Specifications

Size

Length	0.808 in [20.52 mm]
Width/Dia.	0.235 in [5.97 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: [75 Ohm MCX Plug Connector Crimp/Solder Attachment for RG179, RG187 PE44298](#)



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Material Specifications

Description	Material	Plating
Contact	Brass	Gold 30 µin minimum
Insulation	PTFE	
Body	Brass	Gold 3 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:

75 Ohm MCX Plug Connector Crimp/Solder Attachment for RG179, RG187 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.

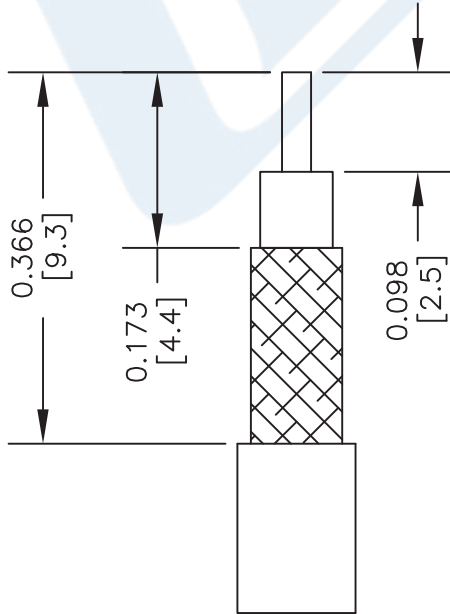
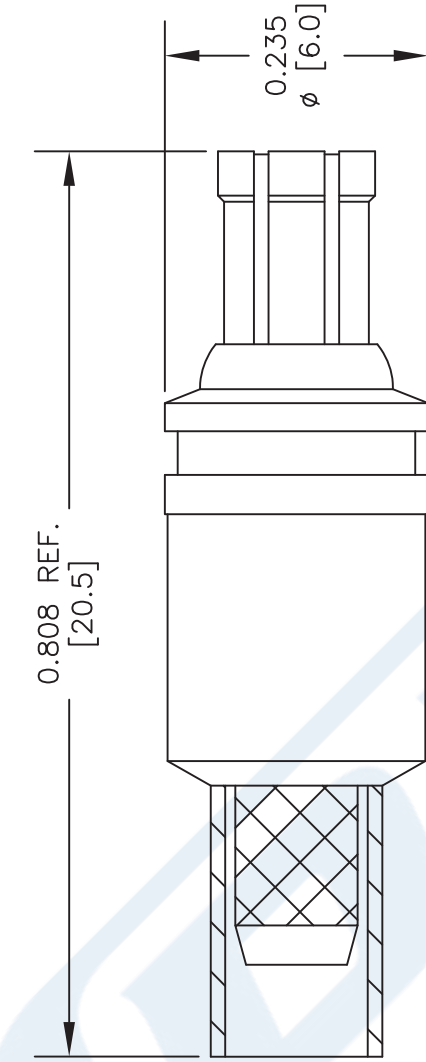
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URL: <https://www.pasternack.com/mcx-plug-standard-rg179-rg187-connector-pe44298-p.aspx>

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.

PE44298 CAD Drawing

75 Ohm MCX Plug Connector Crimp/Solder Attachment for RG179, RG187



STRIPPING DIMENSIONS

ASSEMBLY PROCEDURES

1. SLIDE FERRULE ONTO CABLE; STRIP CABLE AS SHOWN & TIN CENTER CONDUCTOR.
2. INSERT DIELECTRIC AND CENTER CONDUCTOR INTO BODY. SOLDER CENTER CONDUCTOR TO CONTACT THROUGH HOLE IN BODY. REMOVE EXCESS SOLDER. SLIDE FERRULE FORWARD & CRIMP.

CRIMP SIZE REQUIRED

FERRULE: .128" HEX CRIMP TOOL

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DWG TITLE

PE44298

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.

CAD REV. A

FSCM NO. 53919

CAD FILE 090612

SCALE N/A

SIZE A

2233



75 Ohm SMB Positive Snap Plug Right Angle Connector
Crimp/Solder Attachment For RG179, RG187

TECHNICAL DATA SHEET

PE44445

75 Ohm SMB Positive Snap Plug Right Angle Connector Crimp/Solder Attachment For RG179, RG187

Configuration

Connector	SMB Positive Snap Plug
Connector Interface Type	RG179, RG187
Cable Attachment Method (Shield/Contact)	Crimp/Solder
Body Style	Right Angle

Electrical Specifications

Impedance, Ohms	75
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Mechanical Specifications

Size

Length, in [mm]	0.875 [22.23]
Width/Dia., in [mm]	0.4 [10.16]
Height, in [mm]	0.78 [19.81]
Weight, lbs [g]	0.027 [12.25]

Connector

Type	SMB Positive Snap Plug
Contact Material and Plating	Gold
Body Material and Plating	Brass, Nickel
Dielectric Type	PTFE

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

RoHS Compliant	Yes
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Plotted and Other Data

Notes:	Values at 25 °C, sea level
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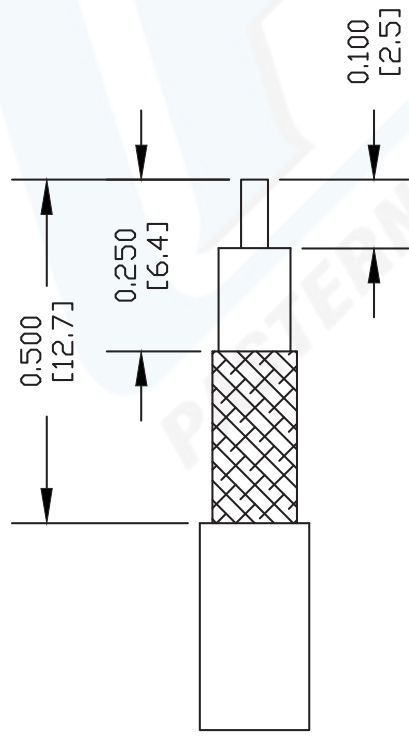
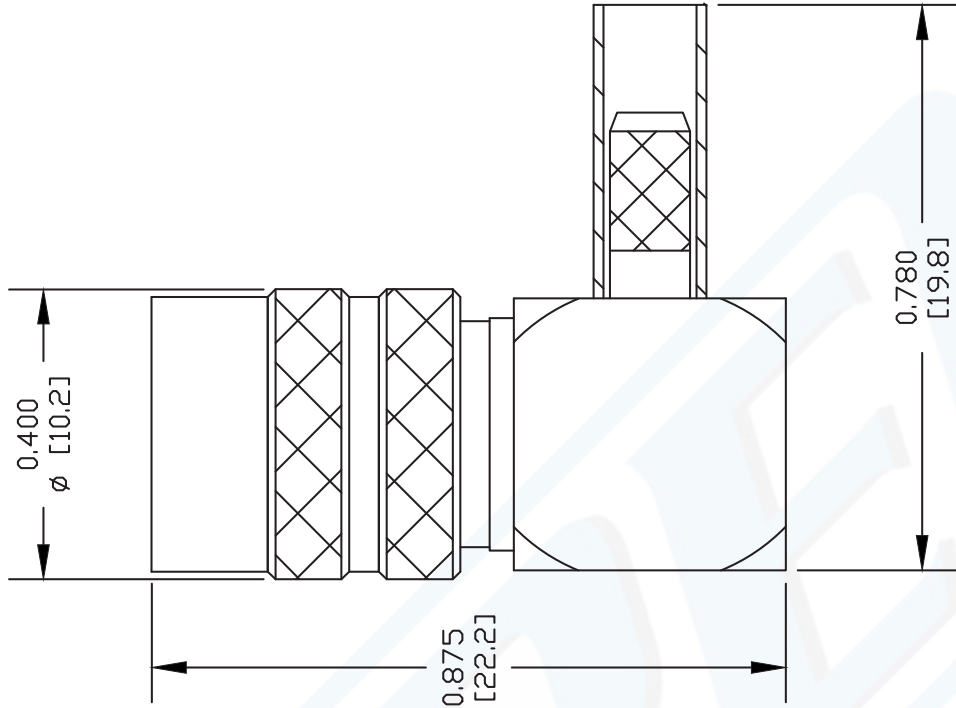
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [75 Ohm SMB Positive Snap Plug Right Angle Connector Crimp/Solder Attachment For RG179, RG187 PE44445](http://www.pasternack.com/smb-positive-snap-plug-standard-rg179-rg187-connector-pe44445-p.aspx)

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PE44445 CAD Drawing

75 Ohm SMB Positive Snap Plug Right Angle Connector
Crimp/Solder Attachment For RG179, RG187



STRIPPING DIMENSIONS

ASSEMBLY PROCEDURES

1. STRIP CABLE AS SHOWN & SLIDE FERRULE OVER CABLE.
2. INSTALL CABLE INTO BODY OF CONNECTOR AND SOLDER CENTER CONDUCTOR IN PLACE.
3. CRIMP FERRULE & PRESS CAP DOWN.

CRIMP SIZE REQUIRED

FERRULE: .128" HEX CRIMP TOOL

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DWG TITLE

PE44445

FSCM NO. 53919

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4. FITS MIL-C-17 AND EQUIVALENT CABLES.

CAD FILE 092804

SCALE N/A

SIZE A

127

75 Ohm Flexible RG187 Coax Cable Single Shielded with White PTFE Jacket

TECHNICAL DATA SHEET

RG187A/U

75 Ohm Flexible RG187 Coax Cable Single Shielded with White PTFE Jacket

Configuration

Inner Conductor Material and Plating	Copper Clad Steel, Silver
Dielectric Type	PTFE
Shield Materials	Silver Plated Copper Braid
Jacket Material and Color	PTFE, White

Electrical Specifications

Impedance, Ohms	75
Velocity of Propagation, %	69.5
Maximum Operating Frequency, GHz	3
Capacitance, pF/ft [pF/m]	22 [72.18]
Maximum Operating Voltage, Volts	900
Dielectric Withstanding Voltage, Vrms	1,500

Electrical Specifications by Frequency Frequency 1

Frequency, MHz	400
Attenuation, dB/100ft [dB/100m]	21 [68.9]
Power Handling, KWatts	1,400

Mechanical Specifications

Inner Conductor

Number of Strands	7
Material	Copper Clad Steel
Plating	Silver
Diameter, in [mm]	0.012 [0.3]

Dielectric:

Type	PTFE
Diameter, in [mm]	0.063 [1.6]

Shield:

Number of	1
Material 1	Silver Plated Copper Braid
Diameter, in [mm]	0.081 [2.06]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [75 Ohm Flexible RG187 Coax Cable Single Shielded with White PTFE Jacket RG187A/U](#)

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75 Ohm Flexible RG187 Coax Cable Single Shielded with White PTFE Jacket

TECHNICAL DATA SHEET

RG187A/U

Jacket:

Material	PTFE
Diameter, in [mm]	0.11 [2.79]
Color	White
Weight, lbs/ft [Kg/m]	0.011 [0.02]

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

RoHS Compliant	Yes
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Plotted and Other Data

Notes:	Values at 25 °C, sea level
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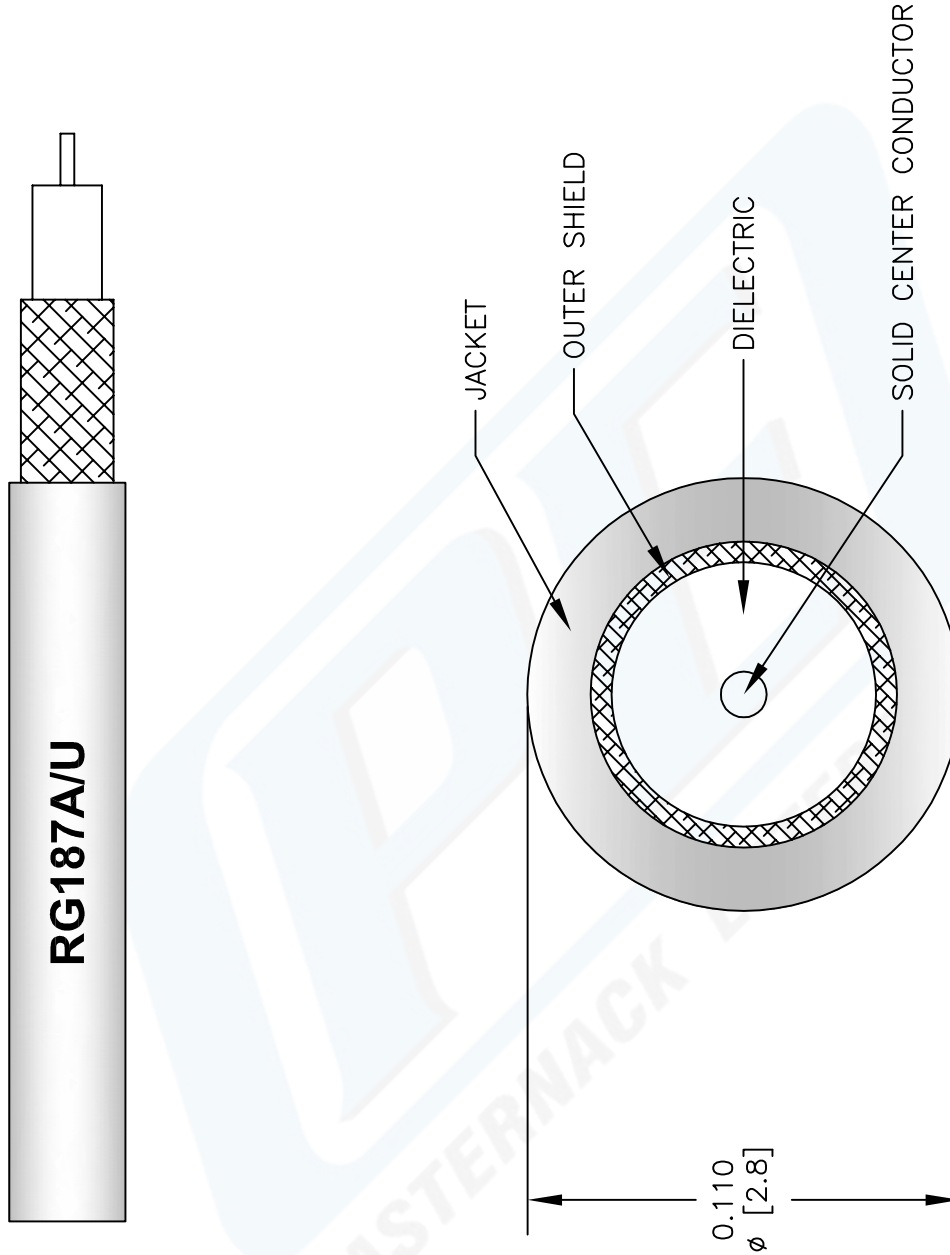
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RG187A/U CAD Drawing

75 Ohm Flexible RG187 Coax Cable Single Shielded with White PTFE Jacket



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DWG TITLE

RG187A/U

REV. B

FSCM NO. 53919

CAD FILE

041812-B

SCALE N/A

SIZE A

2233



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