


**RP MCX Plug Right Angle Connector Crimp/
Solder Attachment For RG178, RG196**
TECHNICAL DATA SHEET
PE44372
RP MCX Plug Right Angle Connector Crimp/Solder Attachment For RG178, RG196
Configuration

Connector	MCX Plug Reverse Polarity
Connector Specification	MIL-C-39012
Connector Interface Type	RG178, RG196
Cable Attachment Method (Shield/Contact)	Crimp/Solder
Body Style	Right Angle

Electrical Specifications

Frequency Range, GHz	DC to 6
Impedance, Ohms	50
Maximum VSWR	1.31:1
Maximum Operating Voltage, Volts	250
Dielectric Withstanding Voltage, Vrms	750

Frequency 1

Frequency, MHz	DC to 1,000
VSWR	1.13:1
Insertion Loss, dB	0.2

Mechanical Specifications
Temperature

Operating Range, deg C	-65 to +165
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Size

Length, in [mm]	0.455 [11.56]
Width/Dia., in [mm]	0.24 [6.10]
Height, in [mm]	0.311 [7.9]
Weight, lbs [g]	0.004 [1.81]

Connector

Type	MCX Plug Reverse Polarity
Mating Cycles	500
Contact Material and Plating	Beryllium Copper, Gold
Contact Plating Specification	30µ in minimum
Body Material and Plating	Brass, Gold
Body Plating Specification	10µ in minimum
Dielectric Type	Teflon

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

RoHS Compliant	Yes
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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: [RP MCX Plug Right Angle Connector Crimp/Solder Attachment For RG178, RG196 PE44372](#)

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.



RP MCX Plug Right Angle Connector Crimp/ Solder Attachment For RG178, RG196

TECHNICAL DATA SHEET

PE44372

Plotted and Other Data

Notes:

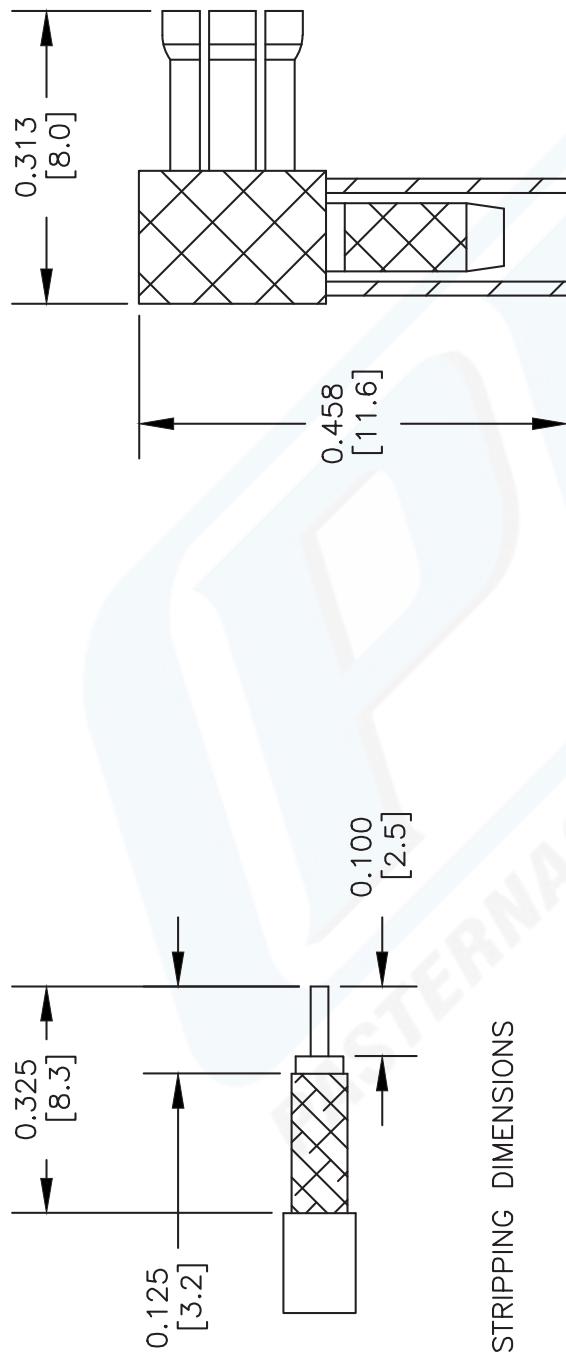
Values at 25 °C, sea level

RP MCX Plug Right Angle Connector Crimp/Solder Attachment For RG178, RG196 from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and fiber optic 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: [RP MCX Plug Right Angle Connector Crimp/Solder Attachment For RG178, RG196 PE44372](http://www.pasternack.com/mcx-plug-reverse-polarity-rg178-rg196-connector-pe44372-p.aspx)

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ASSEMBLY PROCEDURES

STRIP CABLE AS SHOWN & TIN CENTER CONDUCTOR. SLIDE FERRULE OVER CABLE.

INSTALL CABLE INTO BODY OF CONNECTOR AND SOFT SOLDER CENTER CONDUCTOR IN PLACE.

CRIMP FERRULE INSERT PTFE & PRESS CAP DOWN.

CRIMP SIZE REQUIRED

FERRULE: .100" 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
PE44372

PE PASTERNACK[®]

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53919	061203	N/A		127



RP MCX Plug Connector Crimp/Solder Attachment for RG178, RG196

RF Connectors Technical Data Sheet

PE44370

Configuration

- MCX Plug Reverse Polarity Connector
- MIL-C-39012
- 50 Ohms

- Straight Body Geometry
- RG178, RG196 Interface Type
- Crimp/Solder Attachment

Features

- Max. Operating Frequency 6 GHz
- Good VSWR of 1.41:1
- Gold over Nickel Plated Beryllium Copper Contact

- 30 μ in minimum contact plating
- Reverse Polarity

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE44370 RP MCX plug connector with crimp/solder attachment for RG178 and RG196 is part of our full line of RF components available for same-day shipping. The plug reverse polarity configuration uses a plug connector body with an inner contact receptacle. Our MCX plug connector operates up to a maximum frequency of 6 GHz and offers good VSWR of 1.41:1.

Our reverse polarity MCX plug connector PE44370 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

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RP MCX Plug Connector Crimp/Solder Attachment for RG178, RG196

RF Connectors Technical Data Sheet

PE44370

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
 Width/Dia.

0.598 in [15.19 mm]
 0.196 in [4.98 mm]

Weight

0.004 lbs [1.81 g]

Mating Cycles

500 Cycles

Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold over Nickel 30 μ in minimum
Insulation	PTFE	
Body	Brass	Gold over Nickel 10 μ in minimum

Environmental Specifications

Temperature

Operating Range
 Humidity
 Shock
 Vibration
 Thermal Shock
 Salt Spray

-65 to +165 deg C
 MIL-STD-202, Method 106
 MIL-STD-202, Method 213, Condition B
 MIL-STD-202, Method 204, Condition B
 MIL-STD-202, Method 107, Condition F
 MIL-STD-202, Method 101, Condition B

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RP MCX Plug Connector Crimp/Solder Attachment for RG178, RG196

RF Connectors Technical Data Sheet

PE44370

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

Plotted and Other Data

Notes:

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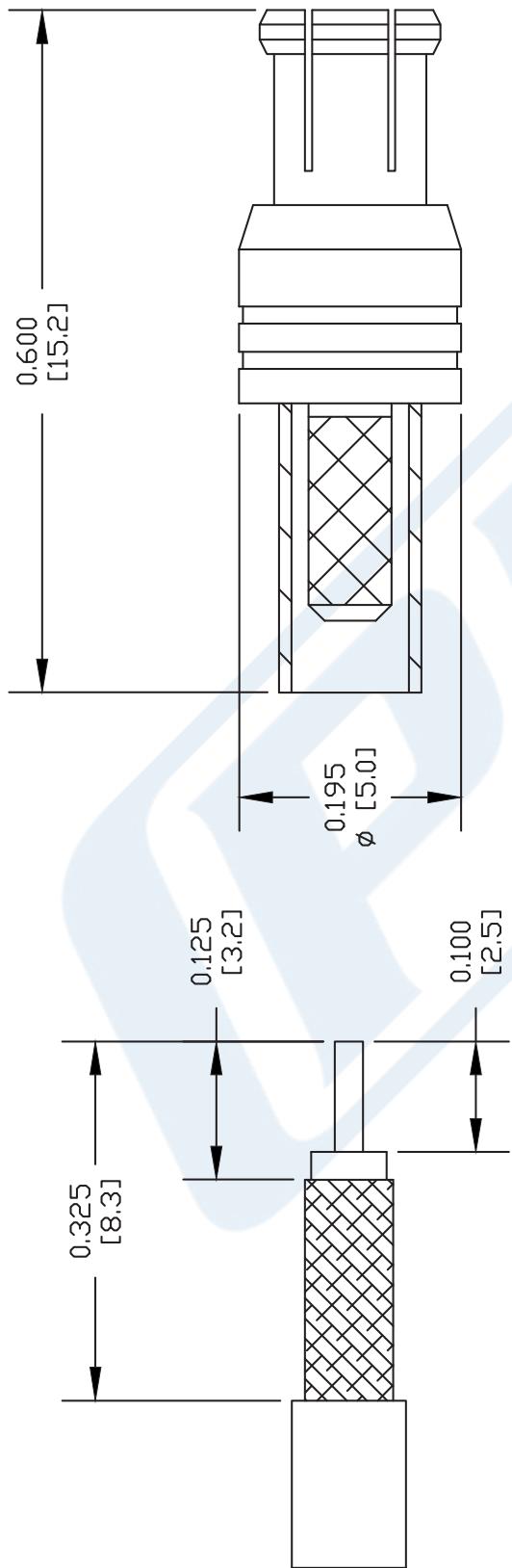
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URL: <https://www.pasternack.com/mcx-plug-reverse-polarity-rg178-rg196-connector-pe44370-p.aspx>

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PE44370 CAD Drawing

RP MCX Plug Connector Crimp/Solder Attachment for RG178, RG196



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

PASTERNAK®	DWG TITLE	PE44370		
PASTERNAK®	FSCM NO.	53919	CAD FILE	080103
PASTERNAK®			SCALE	SIZE A
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Flexible RG196 Coax Cable Single Shielded with White PTFE Jacket

RF Cables Technical Data Sheet

RG196A/U

Configuration

- Flexible Cable
- 1 Shield(s)

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		1,000	MHz
Impedance		50		Ohms
Dielectric Withstanding Voltage (AC)			2,000	Vrms
Nominal Capacitance		32 [104.99]		pF/ft [pF/m]

Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	400					MHz
Attenuation, Typ	33					dB/100ft
	108.27					dB/100m

Mechanical Specifications

Diameter	0.08 in [2.03 mm]
Weight	0.005 lbs/ft [0.01 Kg/m]

Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper Clad Steel, Silver, 7 Strands	0.011 in [0.28 mm]
Conductor Type	Stranded	
Dielectric	PTFE	0.035 in [0.89 mm]
First Shield	Silver Plated Copper Braid 92.3% coverage	0.054 in [1.37 mm]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Flexible RG196 Coax Cable Single Shielded with White PTFE Jacket RG196A/U](#)

Flexible RG196 Coax Cable Single Shielded with White PTFE Jacket

RF Cables Technical Data Sheet

RG196A/U

Jacket	PTFE, White	0.08 in [2.03 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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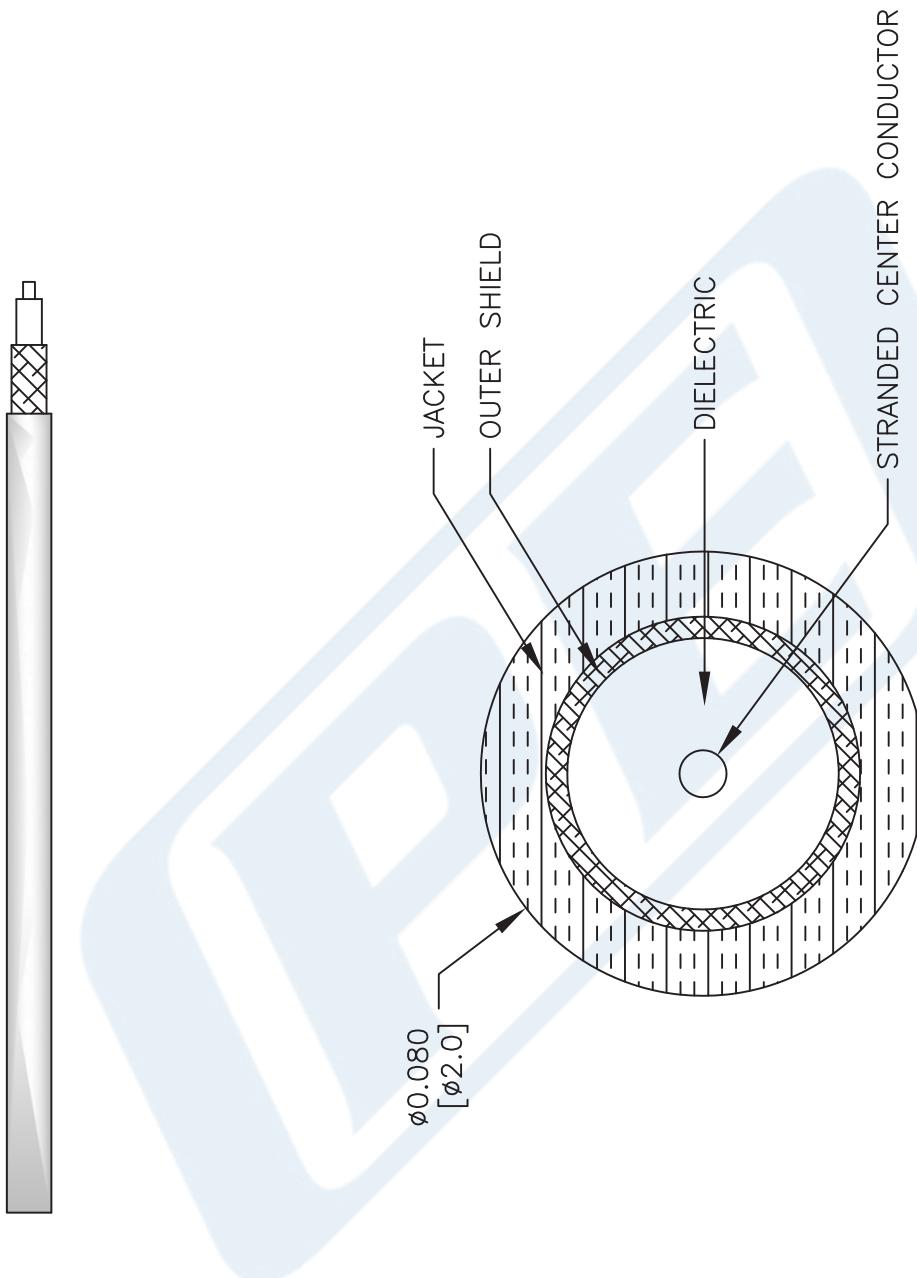
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Flexible RG196 Coax Cable Single Shielded with White PTFE Jacket RG196A/U](#)

URL: <https://www.pasternack.com/flexible-0.080-rg196-50-ohm-coax-cable-ptfe-jacket-rg196a-u-p.aspx>

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RG196A/U CAD Drawing

Flexible RG196 Coax Cable Single Shielded with White PTFE Jacket



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DWG TITLE	RG196A/U
FSCM NO.	53919

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SCALE	N/A	SIZE	A	41742
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