

SMA Male Connector Crimp/Solder Attachment for RG58, RG303, RG141, PE-C195, LMR-195, 0.195 inch



PE4215

Configuration

- SMA Male Connector
- MIL-STD-348A
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: RG58, RG303, RG141, PE-C195, LMR-195, 0.195 inch
- 16-May inch Hex

Features

- Max. Operating Frequency 12.4 GHz
- Good VSWR of 1.5:1
- Gold Plated Brass Contact
- 50 μ in minimum contact plating

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE4215 SMA Male Connector Crimp/Solder Attachment for RG58, RG303, RG141, PE-C195, LMR-195 and 0.195 inch Cable is part of our full line of RF components available for same-day shipping. Our SMA male connector operates up to a maximum frequency of 12.4 GHz and offers good VSWR of 1.5:1.

Our SMA male connector PE4215 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		12.4	GHz
VSWR			1.5:1	
Operating Voltage (AC)			500	Vrms
Dielectric Withstanding Voltage (AC)			1,000	Vrms
Impedance		50		Ohms

Mechanical Specifications

Size

Length	0.906 in [23.01 mm]
Width	0.315 in [8 mm]
Weight	0.016 lbs [7.26 g]
Mating Torque	3 to 5 in-lbs [[0.34 to 0.57 Nm]]

SMA Male Connector Crimp/Solder Attachment for RG58, RG303, RG141, PE-C195, LMR-195, 0.195 inch



PE4215

Material Specifications

Description	Material	Plating
Contact	Brass	Gold 50 µin minimum
Insulation	PTFE	
Body	Brass	Nickel 100 µin minimum
Coupling Nut	Brass	Nickel 100 µin minimum
Crimp Sleeve	Brass	Nickel

Environmental Specifications

Temperature

Operating Range -65 to 165 deg C

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

Plotted and Other Data

Notes:

SMA Male Connector Crimp/Solder Attachment for RG58, RG303, RG141, PE-C195, LMR-195, 0.195 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.

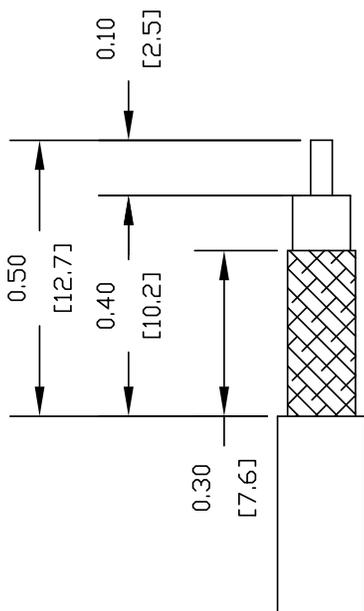
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male Connector Crimp/Solder Attachment for RG58, RG303, RG141, PE-C195, LMR-195, 0.195 inch PE4215](#)

URL: <https://www.pasternack.com/sma-male-standard-rg58-connector-pe4215.html>

The information contained within 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 impliment improvements. Pasternack Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

PE4215 CAD Drawing

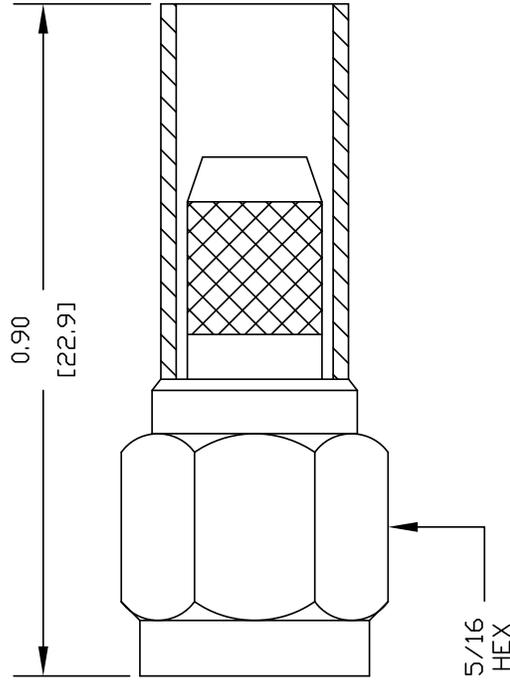
SMA Male Connector Crimp/Solder Attachment for RG58, RG303, RG141, PE-C195, LMR-195, 0.195 inch



STRIPPING DIMENSIONS

CRIMP SIZE REQUIRED

CONTACT: SOLDER
FERRULE: .213" HEX CRIMP TOOL



DWG TITLE

PE4215

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.

REV. -

FSCM NO. 53919

CAD FILE 010611

SCALE N/A

SIZE A

127



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SMA Female Connector Clamp/Solder Attachment for RG55, RG58, RG141, RG142, RG223, RG303, RG400, PE-C195, PE-P195, LMR-195

RF Connectors Technical Data Sheet

PE4031

Configuration

- SMA Female Connector
- MIL-STD-348
- 50 Ohms
- Straight Body Geometry
- RG55, RG58, RG141, RG142, RG223, RG303, RG400, PE-C195, PE-P195, LMR-195 Interface Type
- Clamp/Solder Attachment

Features

- Gold Plated Contact
- Contact plating according to MIL-G-45204

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE4031 SMA female connector with clamp/solder attachment for RG55, RG58, RG141, RG142, RG223, RG303, RG400, PE-C195, PE-P195 and LMR-195 is part of our full line of RF components available for same-day shipping.

Our SMA female connector PE4031 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	0.705 in [17.91 mm]
Width/Dia.	0.312 in [7.92 mm]
Weight	0.009 lbs [4.08 g]

Material Specifications

Description	Material	Plating
Contact		Gold MIL-G-45204
Insulation	PTFE	
Body	Brass	Nickel QQ-N-290

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Female Connector Clamp/Solder Attachment for RG55, RG58, RG141, RG142, RG223, RG303, RG400, PE-C195, PE-P195, LMR-195 PE4031](#)



SMA Female Connector Clamp/Solder Attachment
for RG55, RG58, RG141, RG142, RG223, RG303,
RG400, PE-C195, PE-P195, LMR-195

RF Connectors
Technical Data Sheet

PE4031

Environmental Specifications

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

Plotted and Other Data

Notes:

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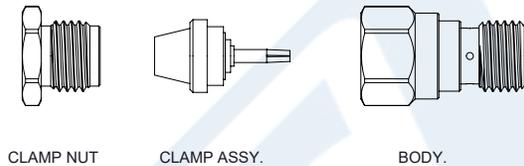


SMA Female Connector Clamp/Solder Attachment
for RG55, RG58, RG141, RG142, RG223, RG303,
RG400, PE-C195, PE-P195, LMR-195

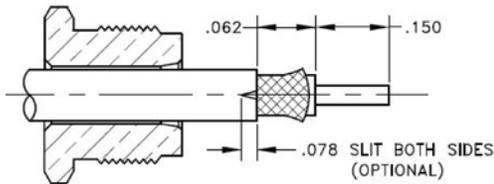
RF Connectors
Technical Data Sheet

PE4031

Assembly Instruction

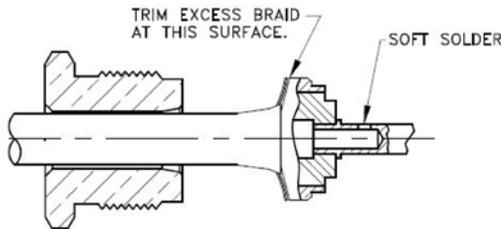


CABLE ASSEMBLY INSTRUCTIONS.

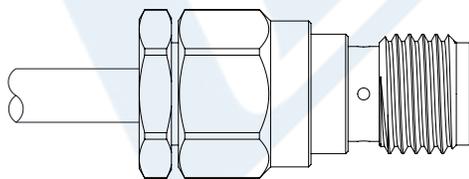


1. SLIDE NUT ONTO CABLE AS SHOWN. CUT CABLE SQUARE. TRIM CABLE TO DIMENSIONS SHOWN BEING CAREFUL NOT TO NICK THE BRAID OR CENTER CONDUCTOR. ROTATE DIELECTRIC TO FLARE BRAID.

NOTE: TWO SLITS IN THE JACKET 180° APART AS SHOWN MAY BE NEEDED TO PRESS JACKET TO SHOULDER.



2. SLIDE CLAMP ASSY OVER DIELECTRIC AND UNDER BRAID UNTIL THE DIELECTRIC BOTTOMS OUT IN CLAMP AND THE CENTER CONDUCTOR IS VISIBLE INSIDE HOLE OF CONTACT. SOLDER THE CONTACT ONTO THE CENTER CONDUCTOR. DO NOT OVERHEAT!.



3. INSERT THE ASSEMBLY INTO THE REAR BODY. HOLD THE NUT STATIONARY AND TIGHTEN THE BODY TO 15 IN LBS.

TIGHTEN →

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Female Connector Clamp/Solder Attachment for RG55, RG58, RG141, RG142, RG223, RG303, RG400, PE-C195, PE-P195, LMR-195 PE4031](#)



SMA Female Connector Clamp/Solder Attachment
for RG55, RG58, RG141, RG142, RG223, RG303,
RG400, PE-C195, PE-P195, LMR-195

RF Connectors
Technical Data Sheet

PE4031

SMA Female Connector Clamp/Solder Attachment for RG55, RG58, RG141, RG142, RG223, RG303, RG400, PE-C195, PE-P195, LMR-195 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.

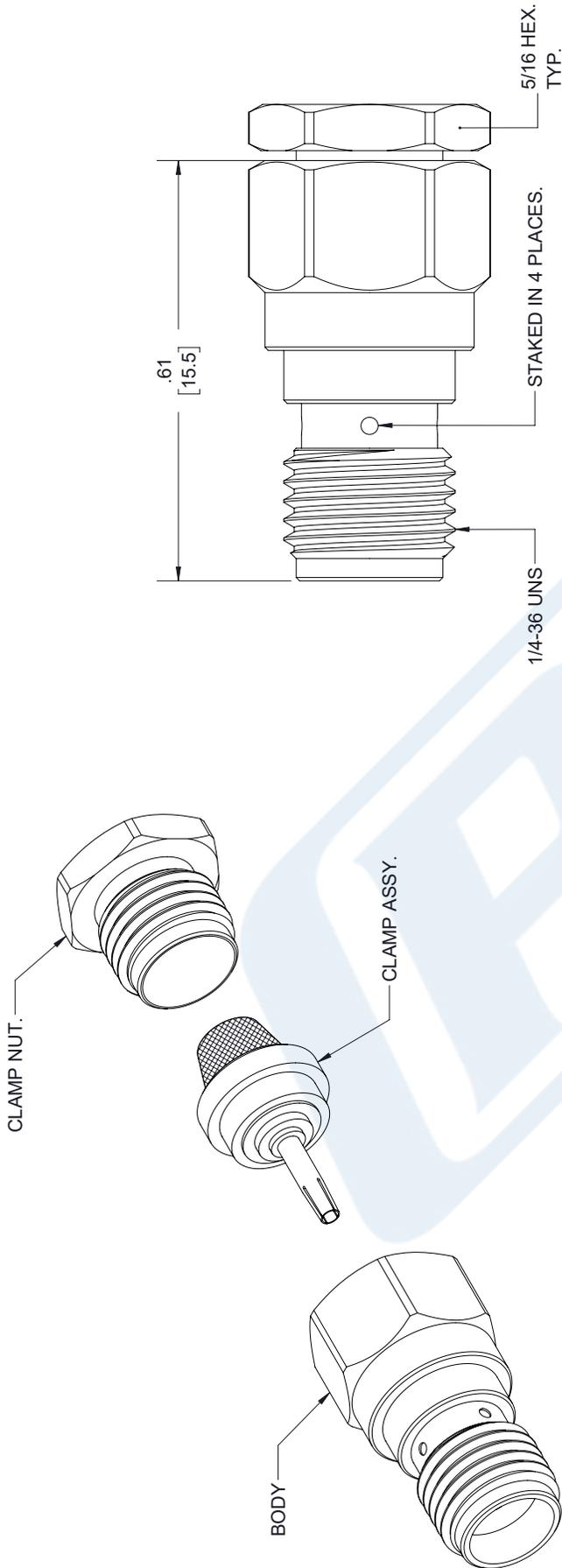
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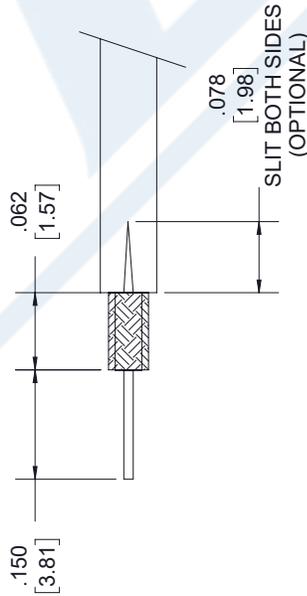
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PE4031 CAD Drawing

SMA Female Connector Clamp/Solder Attachment for RG55, RG58, RG141, RG142, RG223, RG303, RG400, PE-C195, PE-P195, LMR-195



50 Ω
SMA FEMALE



STRIPPING DIMENSIONS

NOTES:

- CABLE ATTACHMENT:
• OUTER: CLAMP.
• INNER: SOLDER.

STANDARD TOLERANCES

- .X ±0.2
- .XX ±0.01
- .XXX ±0.005

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES



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DWG TITLE

PE4031

CAGE CODE 53919

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CAD FILE 12/13/18

SCALE N/A

SIZE A

7361

LMR-195-UF Ultra Flex version of the 195 series Low Loss Coax



LMR-195-UF



Times Microwave Systems Connector Specification

Configuration

- Low Loss, Outdoor Flexible Cable
- 2 Shield(s)

Features

- Ultra Flexible Coax with Stranded Center Conductor
- Max Operating Frequency of 8 GHz
- Phase Velocity 74% VoP
- Max Operating Temperature +85°C
- TPE Jacket
- Min Install Bend Radius of 0.5 inches

Applications

- RF Test Systems
- Antenna Installs
- Laboratory Applications
- General Purpose RF Interconnect
- Jumper Assemblies

Description

LMR-195-UF Ultra Flex version of the 195 series Low Loss Coax from Times Microwave is part of the large product offering by Pasternack of radio frequency coaxial cable types specifically stocked to be ready for same-day shipment. Pasternack LMR-195-UF coax cable is manufactured in an ultra flexible design and has a 50 Ohm impedance. This low loss and ultra flexible 50 Ohm coax cable LMR-195-UF is constructed with a 0.195 inch diameter and Black TPE jacket.

LMR-195-UF flexible 50 Ohm coax cable with TPE jacket is rated for a 8 GHz maximum operating frequency. This 50 Ohm 0.195 inch diameter and low loss ultra flexible coax cable is built with an aluminum double shield count and RF shielding of 90 dB. Times Microwave LMR-195-UF TPE coax is constructed with Foam PE dielectric and a maximum operating temperature of 85 degrees C. Pasternack's offering of LMR-195-UF coax cable provides specs for this wire on its RF coax cable LMR-195-UF datasheet.

LMR-195-UF cable is part of more than one million RF, microwave parts in stock at Pasternack. This Times Microwave low loss ultra flexible LMR-195-UF coax cable is ready to buy and can be shipped worldwide. Pasternack also maintains a wide selection of other radio frequency coaxial cable types that ship same-day from our warehouse as with the rest of our other RF/microwave components.

* LMR™ is a trademark of Times Microwave Systems.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		8	GHz
Impedance		50		Ohms
Velocity of Propagation		74		%
Time Delay		1.27 [4.17]		ns/ft [ns/m]
Shielding Effectiveness	90			dB
Dielectric Withstanding Voltage (DC)			1,000	Vdc
Jacket Spark			3,000	Vrms
Inner Conductor DC Resistance			9.5	Ohms/1000ft
Outer Conductor DC Resistance			4.9	Ohms/1000ft

LMR-195-UF Ultra Flex version of the
195 series Low Loss Coax



LMR-195-UF

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Nominal Capacitance		25.4 [83.33]		pF/ft [pF/m]
Nominal Inductance		0.064 [0.21]		uH/ft [uH/m]
Input Power (Peak)			2.5	kWatts

Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	50	150	220	450	900	MHz
Attenuation, Typ	3	5.3	6.4	9.3	13.2	dB/100ft
	9.84	17.39	21	30.51	43.31	dB/100m
Input Power (CW), Max	610	350	280	200	140	Watts

Description	F6	F7	F8	F9	F10	Units
Frequency	1.5	1.8	2	2.5	5.8	GHz
Attenuation, Typ	17.3	19	20.1	22.6	35.6	dB/100ft
	56.76	62.34	65.94	74.15	116.8	dB/100m
Input Power (CW), Max	100	90	90	80	50	Watts

Mechanical Specifications

Diameter	0.195 in [4.95 mm]
Weight	0.021 lbs/ft [0.03 kg/m]
Min. Bend Radius (Installation)	0.5 in [12.7 mm]
Min. Bend Radius (Repeated)	2 in [50.8 mm]
Bending Moment	0.1 lbs-ft [0.14 N-m]
Tensile Strength	40 lbs [18.14 kg]
Flat Plate Crush	10 lbs/in [0.18 kg/mm]

Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper, 1 Strand	0.038 in [0.97 mm]
Conductor Type	Stranded	
Dielectric	Foam PE	0.11 in [2.79 mm]
First Shield	Aluminum Tape	
Second Shield	Tinned Copper	
Jacket	TPE, Black	0.195 in [4.95 mm]

LMR-195-UF Ultra Flex version of the 195 series Low Loss Coax



LMR-195-UF

Environmental Specifications

Temperature

Operating Range	-40 to 85 deg C
Installation Range	-40 to 85 deg C
Storage Range	-70 to 85 deg C

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

Plotted and Other Data

Notes:

LMR-195-UF Ultra Flex version of the 195 series Low Loss Coax 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: [LMR-195-UF Ultra Flex version of the 195 series Low Loss Coax LMR-195-UF](#)

URL: <https://www.pasternack.com/low-loss-flexible-lmr-195-uf-tpe-jacket-aluminum-tape-over-tinned-copper-outer-conductor-double-shielded-lmr-195-uf-p.aspx>

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LMR-195-UF CAD Drawing

LMR-195-UF Ultra Flex version of the 195 series Low Loss Coax

