



QMA Male Right Angle Connector Crimp/Solder Attachment for RG316-DS, RG188-DS

RF Connectors Technical Data Sheet

PE44505

Configuration

- QMA Male Connector
- 50 Ohms
- Right Angle Body Geometry
- RG316-DS, RG188-DS Interface Type
- Crimp/Solder Attachment

Features

- Max. Operating Frequency 18 GHz
- Gold Plated Brass Contact

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE44505 QMA male right angle connector with crimp/solder attachment for RG316-DS and RG188-DS is part of our full line of RF components available for same-day shipping. Our QMA male connector operates up to a maximum frequency of 18 GHz. Its right angle body geometry allows for easier connections in tight spaces.

Our QMA male right angle connector PE44505 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		18	GHz
Operating Voltage (AC)			350	Vrms
Test Voltage (AC)			750	Vrms
Inner Conductor DC Resistance			3	mOhms
Outer Conductor DC Resistance			2.5	mOhms
Insulation Resistance	5,000			MOhms

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 3	3 to 4	4 to 6			GHz
VSWR, Max	1.11:1	1.14:1	1.29:1			

Electrical Specification Notes:

RF leakage: 95 dB (up to 2 GHz), 80 dB (up to 4 GHz), 70 dB (up to 6 GHz) min.

Insertion loss = $0.05 \times \sqrt{f(\text{GHz})}$ dB max up to 6 GHz.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [QMA Male Right Angle Connector Crimp/Solder Attachment for RG316-DS, RG188-DS PE44505](#)



QMA Male Right Angle Connector Crimp/Solder
Attachment for RG316-DS, RG188-DS

RF Connectors Technical Data Sheet

PE44505

Mechanical Specifications

Size

Length	0.63 in [16 mm]
Width/Dia.	0.41 in [10.41 mm]
Height	0.71 in [18.03 mm]
Weight	0.006 lbs [2.72 g]
Mating Cycles	100 Cycles

Material Specifications

Description	Material	Plating
Contact	Brass	Gold
Insulation	PTFE	
Outer Conductor	Spring Bronze	Tri-Metal
Body	Brass	Tri-Metal

Environmental Specifications

Temperature

Operating Range	-40 to +85 deg C
Storage Range	-40 to +85 deg C

Humidity	IEC 60169-1 16.3 (96 hours)
Vibration	IEC 60068-2-64 random
Thermal Shock	IEC 60169-1 16.4 (-40/+85°C)
Salt Spray	IEC 60109-1 16.7 (48 hrs)

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [QMA Male Right Angle Connector Crimp/Solder Attachment for RG316-DS, RG188-DS PE44505](#)



QMA Male Right Angle Connector Crimp/Solder Attachment for RG316-DS, RG188-DS

RF Connectors Technical Data Sheet

PE44505

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

Plotted and Other Data

Notes:

QMA Male Right Angle Connector Crimp/Solder Attachment for RG316-DS, RG188-DS 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.

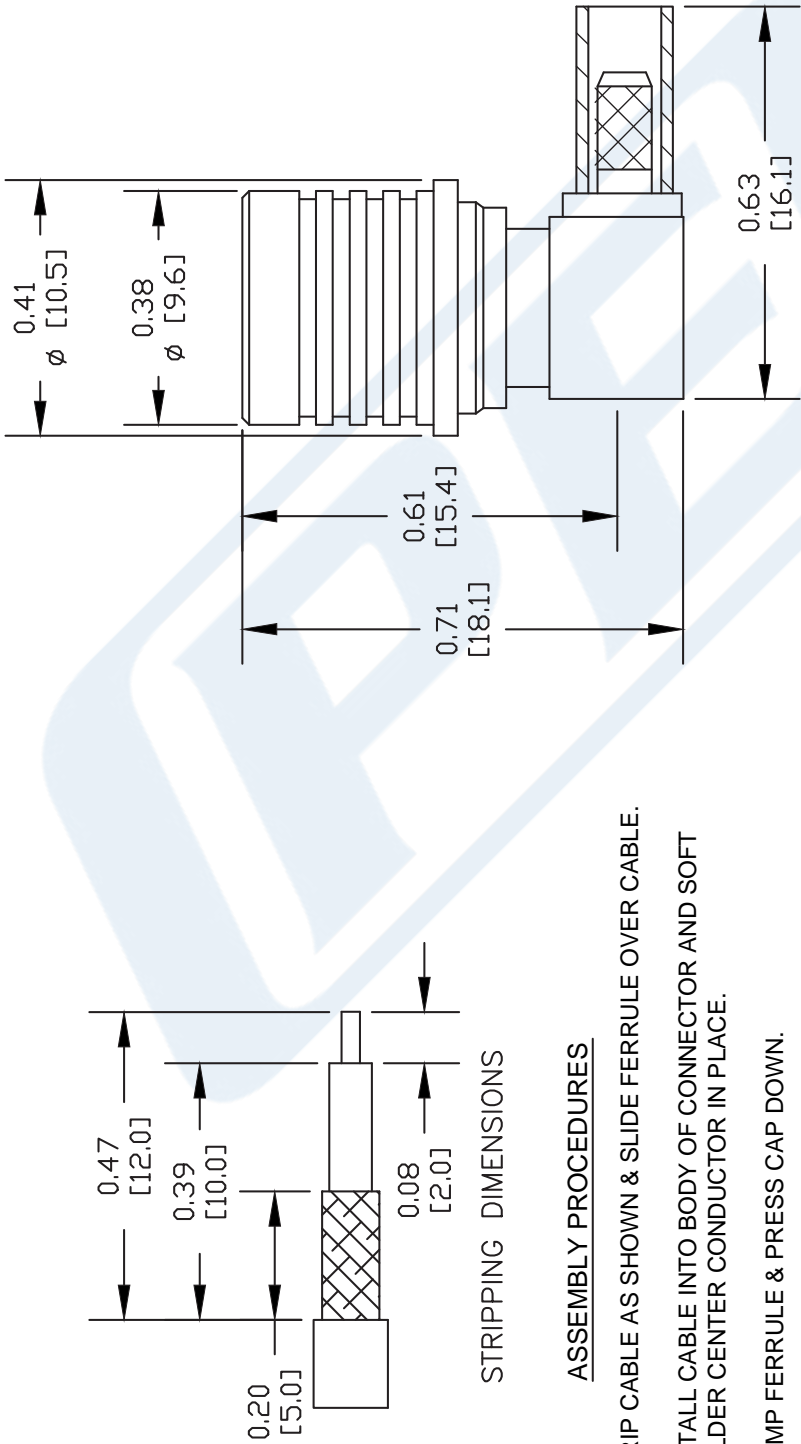
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [QMA Male Right Angle Connector Crimp/Solder Attachment for RG316-DS, RG188-DS PE44505](#)

URL: <https://www.pasternack.com/qma-male-standard-rg316-ds-connector-pe44505-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.

PE44505 CAD Drawing

QMA Male Right Angle Connector Crimp/Solder Attachment for RG316-DS, RG188-DS



STRIPPING DIMENSIONS

ASSEMBLY PROCEDURES

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

CRIMP SIZE REQUIRED

FERRULE: 3.25 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

PE44505

REV. A

FSCM NO. 53919

CAD FILE 090711-A

SCALE N/A

SIZE A

2231

PE PASTERNAK®

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QMA Female Bulkhead Mount Connector Crimp/Solder Attachment for RG316-DS, RG188-DS, .268 inch D Hole

RF Connectors Technical Data Sheet

PE44508

Configuration

- QMA Female Connector
- 50 Ohms
- Straight Body Geometry
- RG316-DS, RG188-DS Interface Type
- Crimp/Solder Attachment
- Bulkhead

Features

- Max. Operating Frequency 18 GHz
- Gold Plated Beryllium Copper Contact

Applications

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

Description

Pasternack's PE44508 QMA female bulkhead connector with crimp/solder attachment for RG316-DS and RG188-DS (.268 inch D hole) is part of our full line of RF components available for same-day shipping. Our QMA female connector operates up to a maximum frequency of 18 GHz. This QMA 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 QMA female bulkhead connector PE44508 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		18	GHz
Operating Voltage (AC)			350	Vrms
Test Voltage (AC)			750	Vrms
Inner Conductor DC Resistance			3	mOhms
Outer Conductor DC Resistance			2.5	mOhms
Insulation Resistance	5,000			MOhms

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 3	3 to 6				GHz
VSWR, Max	1.07:1	1.11:1				

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [QMA Female Bulkhead Mount Connector Crimp/Solder Attachment for RG316-DS, RG188-DS, .268 inch D Hole PE44508](#)



QMA Female Bulkhead Mount Connector Crimp/Solder
Attachment for RG316-DS, RG188-DS, .268 inch D Hole

RF Connectors Technical Data Sheet

PE44508

Electrical Specification Notes:

RF leakage: 95 dB (up to 2 GHz), 80 dB (up to 4 GHz), 70 dB (up to 6 GHz) min.
Insertion loss = $0.05 \times \sqrt{f(\text{GHz})}$ dB max up to 6 GHz.

Mechanical Specifications

Size

Length	0.95 in [24.13 mm]
Width/Dia.	0.43 in [10.92 mm]
Weight	0.006 lbs [2.72 g]
Mating Cycles	100 Cycles

Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold
Insulation	PTFE	
Body	Brass	Tri-Metal

Environmental Specifications

Temperature

Operating Range	-40 to +85 deg C
Storage Range	-40 to +85 deg C
Humidity	IEC 60169-1 16.3 (96 hours)
Vibration	IEC 60068-2-64 random
Thermal Shock	IEC 60169-1 16.4 (-40/+85°C)
Salt Spray	IEC 60109-1 16.7 (48 hrs)

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [QMA Female Bulkhead Mount Connector Crimp/Solder Attachment for RG316-DS, RG188-DS, .268 inch D Hole PE44508](#)



QMA Female Bulkhead Mount Connector Crimp/Solder Attachment for RG316-DS, RG188-DS, .268 inch D Hole

RF Connectors Technical Data Sheet

PE44508

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

Plotted and Other Data

Notes:

QMA Female Bulkhead Mount Connector Crimp/Solder Attachment for RG316-DS, RG188-DS, .268 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.

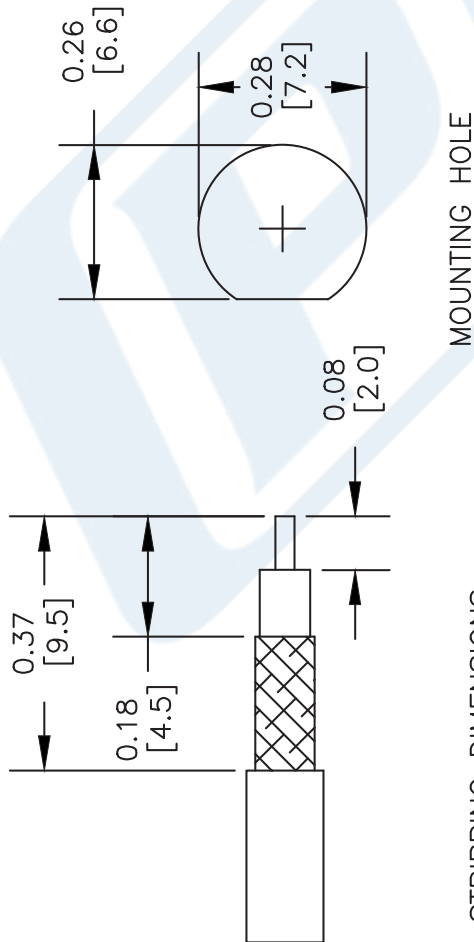
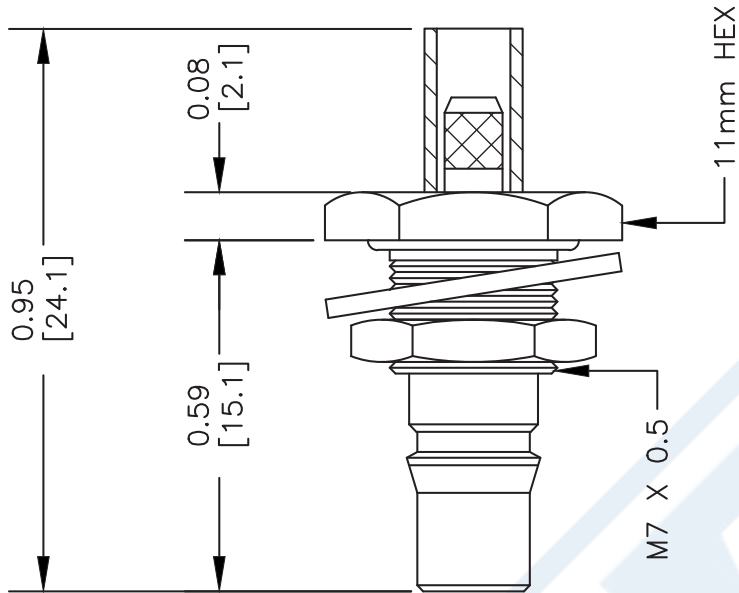
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [QMA Female Bulkhead Mount Connector Crimp/Solder Attachment for RG316-DS, RG188-DS, .268 inch D Hole PE44508](#)

URL: <https://www.pasternack.com/qma-female-standard-rg316-ds-connector-pe44508-p.aspx>

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PE44508 CAD Drawing

QMA Female Bulkhead Mount Connector Crimp/Solder Attachment
for RG316-DS, RG188-DS, .268 inch D Hole



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
PE44508

FSCM NO. 53919

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SIZE A

SCALE N/A

CAD FILE 010411

127

Flexible RG316-DS Coax Cable Double Shielded with Tan FEP Jacket

RF Cables Technical Data Sheet

RG316-DS

Configuration

- Flexible Cable
- 2 Shield(s)

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
Impedance		50		Ohms
Velocity of Propagation		70		%
Operating Voltage (AC)			1,200	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	11.5	17.2	30	54.5		dB/100ft
	37.73	56.43	98.43	178.81		dB/100m
Input Power (CW), Max	430	210	130			Watts

Mechanical Specifications

Diameter	0.114 in [2.9 mm]
Weight	0.015 lbs/ft [0.02 Kg/m]
Min. Bend Radius (Repeated)	0.591 in [15.01 mm]

Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper Clad Steel, Silver7	0.02 in 0.51 mm
Conductor Type	Stranded	
Dielectric	PTFE	0.06 in 1.52 mm
First Shield	Silver Plated Copper Braid	

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Flexible RG316-DS Coax Cable Double Shielded with Tan FEP Jacket RG316-DS](#)

Flexible RG316-DS Coax Cable Double Shielded with Tan FEP Jacket

RF Cables Technical Data Sheet

RG316-DS

Second Shield	Silver Plated Copper Braid	0.094 in 2.39 mm
Jacket	FEP, Tan	0.114 in [2.9 mm]

Environmental Specifications

Temperature

Operating Range -55 to +200 deg C

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

Plotted and Other Data

Notes:

Flexible RG316-DS Coax Cable Double Shielded with Tan FEP 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 RG316-DS Coax Cable Double Shielded with Tan FEP Jacket RG316-DS](#)

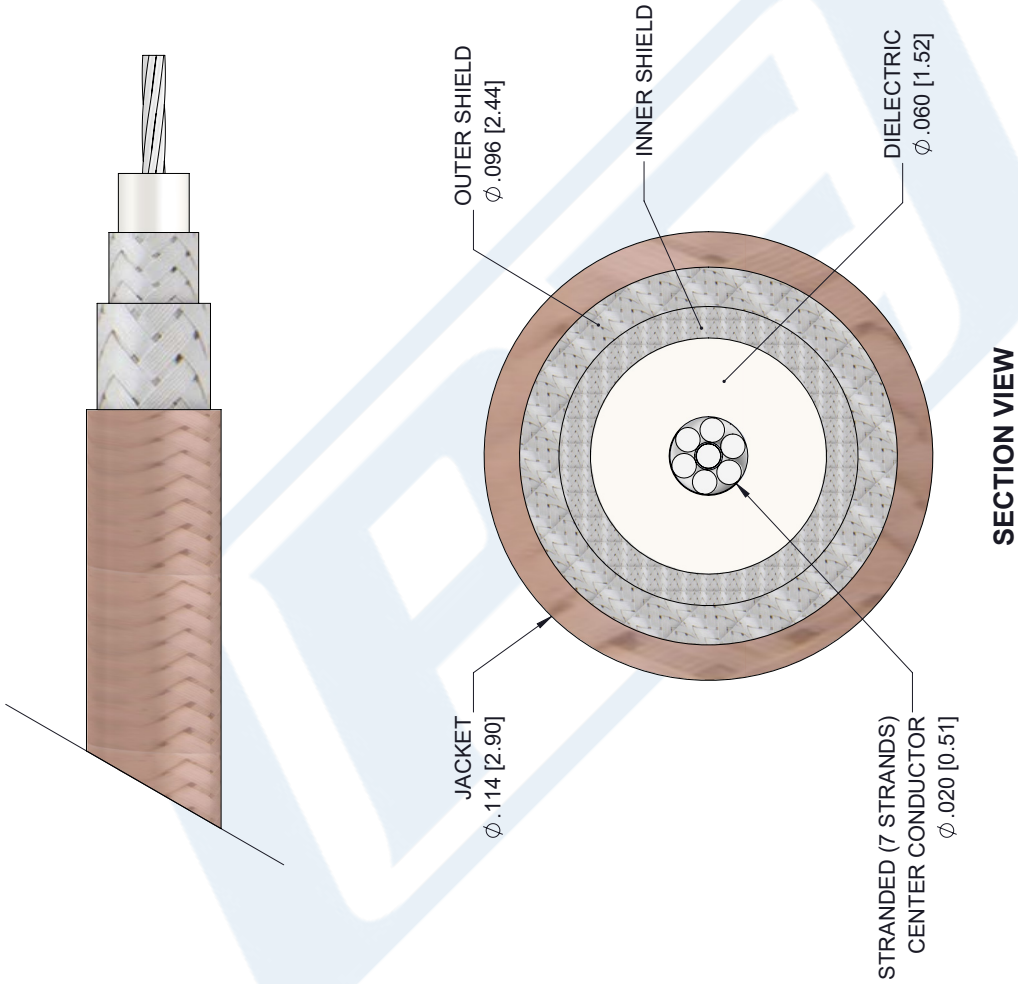
URL: <https://www.pasternack.com/flexible-0.114-rg316-ds-50-ohm-coax-cable-fep-jacket-rg316-ds-p.aspx>

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RG316-DS CAD Drawing

Flexible RG316-DS Coax Cable Double Shielded with Tan FEP Jacket

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
1.1	PCR RG316-DS 20190701	07/15/19	S.ELLIS



UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE IN INCHES DIMENSIONS IN [] ARE MILLIMETERS			
TOLERANCES:			
X±.2	[5.08]	FRACTIONS	
XX±.01	[.25]		±.132
XXX±.005	[.13]	ANGLES ± 1°	
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.			
THIRD-ANGLE PROJECTION			

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SIZE	A
CAGE	53919
DRAWN BY	K.Dang
PART NUMBER	RG316-DS
REV	A

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SHEET	1	OF	1
SCALE	N/A		

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