



## 7/16 DIN Male Connector Crimp/Solder Attachment for PE-C195, PE-P195, RG58, RG141, RG303, LMR-195, 0.195 inch

### RF Connectors Technical Data Sheet

PE44536

#### Configuration

- 7/16 DIN Male Connector
- IEC 61169-4
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: PE-C195, PE-P195, RG58, RG141, RG303, LMR-195, .195 inch
- 32 mm Hex

#### Features

- Max. Operating Frequency 3 GHz
- Excellent VSWR of 1.1:1
- Silver Plated Brass Contact
- 5 µm minimum contact plating

#### Applications

- General Purpose Test
- Custom Cable Assemblies

#### Description

Pasternack's PE44536 7/16 DIN male connector with crimp/solder attachment for PE-C195, PE-P195, RG58, RG141, RG303, LMR-195 and .195 inch is part of our full line of RF components available for same-day shipping. Our 7/16 DIN male connector operates up to a maximum frequency of 3 GHz and offers excellent VSWR of 1.1:1.

Our 7/16 DIN male connector PE44536 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		3	GHz
VSWR			1.1:1	
Insertion Loss			0.1	dB
Operating Voltage (DC)			2,700	Vdc
Dielectric Withstanding Voltage (DC)			4,000	Vdc
Inner Conductor DC Resistance			0.8	mOhms
Outer Conductor DC Resistance			0.2	mOhms
Insulation Resistance	10,000			MOhms

#### Mechanical Specifications

##### Size

Length	1.99 in [50.55 mm]
Width/Dia.	1.25 in [31.75 mm]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [7/16 DIN Male Connector Crimp/Solder Attachment for PE-C195, PE-P195, RG58, RG141, RG303, LMR-195, 0.195 inch PE44536](#)



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## RF Connectors Technical Data Sheet

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Weight 0.243 lbs [110.22 g]  
Mating Torque 221 to 265 in-lbs [24.97 to 29.95 Nm]

### Material Specifications

Description	Material	Plating
Contact	Brass	Silver 5 µm minimum
Insulation	PTFE	
Body	Brass	Tri-Metal 2 µm minimum
Coupling Nut	Brass	Tri-Metal 2 µm minimum

### Environmental Specifications

#### Temperature

Operating Range -40 to +85 deg C  
Shock IEC 60068-2-27  
Vibration IEC 60068-2-6-Fc  
Thermal Shock IEC 60068-2-14-Na

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

### Plotted and Other Data

Notes:

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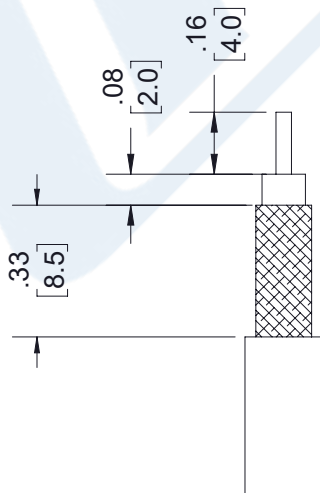
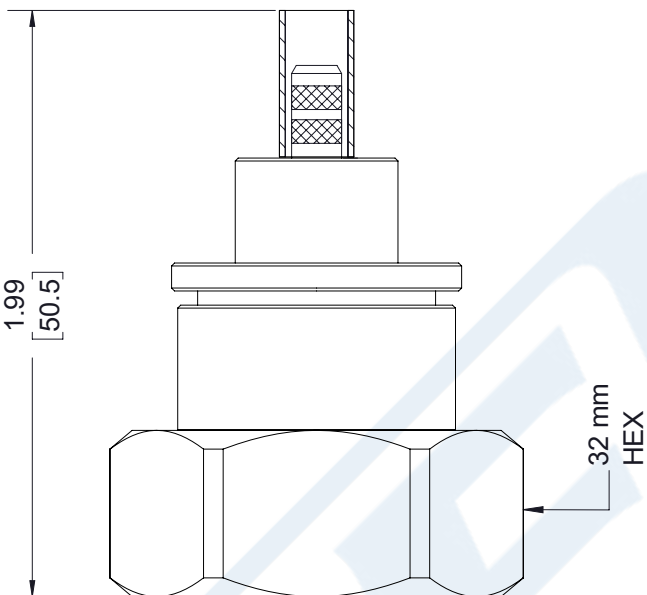
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# PE44536 CAD Drawing

7/16 DIN Male Connector Crimp/Solder Attachment for PE-C195,  
PE-P195, RG58, RG141, RG303, LMR-195, 0.195 inch



RECOMMENDED CABLE  
STRIPPING DIMENSIONS

CRIMP SIZE REQUIRED

CONTACT: SOLDER  
FERRULE: .213" HEX CRIMP TOOL

## REVISIONS

REV.	DESCRIPTION	DATE	APPROVED
A	PCR PE44536 20200526	06/18/20	SRAUTUS

UNLESS OTHERWISE SPECIFIED  
LEADING DIMENSIONS ARE INCHES  
DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES:  
.X = ± .2 [5.08] FRACTIONS  
.XX = ± .02 [.51] ± 1/32  
.XXX = ± .005 [.13] ANGLES ± 1°

CABLE LENGTH (L) TOLERANCES:  
L ≤ 12 [305] = +1 [25] / -0  
12 [305] < L ≤ 60 [1524] = +2 [51] / -0  
60 [1524] < L ≤ 120 [3048] = +4 [102] / -0  
120 [3048] < L ≤ 300 [7620] = +6 [152] / -0  
300 [7620] < L = +5% / -0

ALL DIMENSIONS SHOWN  
ARE FOR REFERENCE ONLY.



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Fax: 1.949.261.7451  
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E-mail: [sales@pasternack.com](mailto:sales@pasternack.com)



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SHEET 1 OF 1

SCALE N/A

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	53919	SLI	PE44536	A

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- 5 µm minimum contact plating

#### Applications

- General Purpose Test
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Operating Range -40 to +85 deg C  
Shock IEC 60068-2-27  
Vibration IEC 60068-2-6-Fc  
Thermal Shock IEC 60068-2-14-Na

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

### Plotted and Other Data

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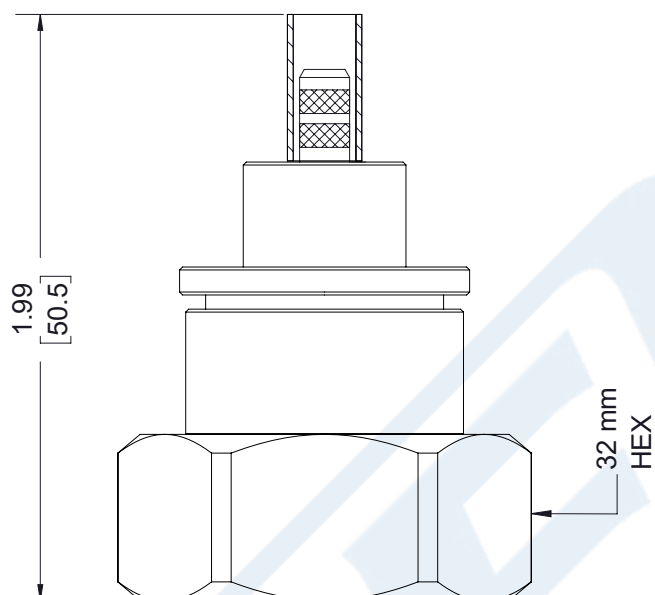
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REVISIONS			
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## RECOMMENDED CABLE STRIPPING DIMENSIONS

CRIMP SIZE REQUIRED

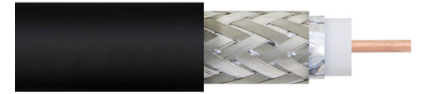
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<p>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS</p>	<p><b>THIRD-ANGLE PROJECTION</b></p> 		<p>THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF PASTERNAK CORPORATION ALL RIGHTS RESERVED.</p>		<p>SHEET 1 OF 1</p>	<p>SCALE N/A</p>	<p>REV A</p>				
	<p><b>PE PASTERNAK</b> an INFINITI® brand</p>		<p>Pasternack Enterprises, Inc. P.O.Box 16759, Irvine, CA 92623. Phone: 1.949.261.1920   1.866.727.8376 Fax: 1.949.261.7451 Website: <a href="http://www.pasternack.com">www.pasternack.com</a> E-mail: <a href="mailto:sales@pasternack.com">sales@pasternack.com</a></p>		<p>ITEM NO. PE44536</p>						
<p><b>TOLERANCES:</b></p>											
<p>X ± .2 [5.08]</p>			<p>FRACTIONS ± 1/32</p>			<p>ANGLES ± 1°</p>					
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<p>SIZE A</p>			<p>CAGE CODE 53919</p>			<p>DRAWN BY SLI</p>					



## Low Loss Flexible LMR-195 Outdoor Rated Coax Cable Double Shielded with Black PE Jacket



### LMR-195



## Times Microwave Systems Connector Specification

### Configuration

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

### Features

- Max Operating Frequency of 8 GHz
- Low Loss Cable
- Phase Velocity 80% VoP

### Applications

- Laboratory Applications
- General Purpose RF Interconnect

### Description

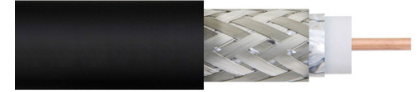
LMR-195 part number from Pasternack is a LMR-195 coax cable that is flexible. Pasternack LMR-195 flexible coax cable is 50 Ohm and has a PE (F) dielectric. Our LMR-195 coax is constructed with a 0.195 jacket made of PE. LMR-195 coax has a shield count of 2, a RF shielding of 90 dB and the maximum frequency for this Pasternack cable is 8 GHz. LMR-195 coax cable has an attenuation at 1 GHz of 11.8 dB.

Pasternack LMR-195 coax cables are part of over 40,000 RF, microwave and millimeter wave components. LMR-195 cables and our other RF parts are available for same day shipping worldwide. Custom RF cable assemblies using LMR-195 or other coax can be built and shipped same day as well.

### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		8	GHz
Cutoff Frequency		41		GHz
Impedance		50		Ohms
Velocity of Propagation		80		%
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			7.6	Ohms/1000ft
Outer Conductor DC Resistance			4.9	Ohms/1000ft
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

## Low Loss Flexible LMR-195 Outdoor Rated Coax Cable Double Shielded with Black PE Jacket



### LMR-195

#### Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	50	150	220	450	900	MHz
Attenuation, Typ	2.5	4.4	5.4	7.8	11.1	dB/100ft
	8.2	14.44	17.72	25.59	36.42	dB/100m
Input Power (CW), Max	680	390	320	220	160	Watts

Description	F6	F7	F8	F9	F10	Units
Frequency	1.5	1.8	2	2.5	8	GHz
Attenuation, Typ	14.5	16	16.9	19	29.9	dB/100ft
	47.57	52.49	55.45	62.34	98.1	dB/100m
Input Power (CW), Max	120	110	100	90	60	Watts

#### Mechanical Specifications

Diameter	0.195 in [4.95 mm]
Weight	0.022 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	0.2 lbs-ft [0.27 N-m]
Tensile Strength	40 lbs [18.14 kg]
Flat Plate Crush	15 lbs/in [0.27 kg/mm]

#### Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper, 1 Strand	0.037 in [0.94 mm]
Conductor Type	Solid	
Dielectric	PE (F)	0.11 in [2.79 mm]
First Shield	Aluminum Tape	
Second Shield	Tinned Copper Braid	
Jacket	PE, Black	0.195 in [4.95 mm]

#### Environmental Specifications

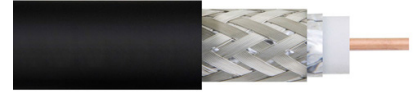
<b>Temperature</b>	
Operating Range	-40 to +85 deg C
Storage Range	-70 to +85 deg C

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

#### Plotted and Other Data

Notes:

## Low Loss Flexible LMR-195 Outdoor Rated Coax Cable Double Shielded with Black PE Jacket



### LMR-195

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