



## QMA Male to SMA Female Low Loss Cable Using LMR-195-UF Coax with HeatShrink in 48 Inch

### RF Cable Assemblies Technical Data Sheet

**PE3W12892/HS-48**

#### Configuration

- Connector 1: QMA Male
- Connector 2: SMA Female
- Cable Type: LMR-195-UF

#### Features

- Max Frequency 5.8 GHz
- Shielding Effectivity > 90 dB
- 74% Phase Velocity
- Double Shielded
- TPE Jacket

#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W12892/HS-48 QMA male to SMA female cable using LMR-195-UF coax is part of our full line of RF components available for same-day shipping. Pasternack's flexible RF cable assemblies are ideal for applications where tight bends and flexure are required. This Pasternack QMA to SMA cable assembly has a male to female gender configuration with 50 ohm flexible LMR-195-UF coax. The PE3W12892/HS-48 QMA male to SMA female cable assembly operates to 5.8 GHz. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness of better than 90 dB.

Custom versions of most RF cable assemblies can be built and shipped same day. Custom cable assembly lengths can be obtained by specifying the desired length on the web site at time of order or by contacting a sales representative. Other available RF cable assembly value added services include connector orientation or clocking, heat shrink booting and custom labeling. RF testing can also be performed to document the electrical performance of your cable assembly.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [QMA Male to SMA Female Low Loss Cable Using LMR-195-UF Coax with HeatShrink in 48 Inch PE3W12892/HS-48](#)



## QMA Male to SMA Female Low Loss Cable Using LMR-195-UF Coax with HeatShrink in 48 Inch

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#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		5.8	GHz
VSWR			1.5:1	
Velocity of Propagation		74		%
RF Shielding	90			dB
Group Delay		1.27 [4.17]		ns/ft [ns/m]
Capacitance		25.4 [83.33]		pF/ft [pF/m]
Inductance		0.064 [0.21]		uH/ft [uH/m]
DC Resistance Inner Conductor		9.5 [31.17]		$\Omega$ /1000ft [ $\Omega$ /Km]
DC Resistance Outer Conductor		4.9 [16.08]		$\Omega$ /1000ft [ $\Omega$ /Km]
Jacket Spark			3,000	Vrms

#### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	5.8	GHz
Insertion Loss (Typ.)	0.48	0.59	0.76	1.11	1.63	dB/ft
	1.57	1.94	2.49	3.64	5.35	dB/m

#### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1 dB per connector.

#### Mechanical Specifications

##### Cable Assembly

Length*	48 in [121.92 cm]
Weight	0.086 lbs [39.01 g]

##### Cable

Cable Type	LMR-195-UF
Impedance	50 Ohms
Inner Conductor Type	Stranded
Inner Conductor Material and Plating	Copper
Dielectric Type	Foam PE
Number of Shields	2
Shield Layer 1	Aluminum Tape
Shield Layer 2	Tinned Copper

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Jacket Material	TPE, Black
Jacket Diameter	0.195 in [4.95 mm]
One Time Minimum Bend Radius	0.5 in [12.7 mm]
Repeated Minimum Bend Radius	2 in [50.8 mm]
Bending Moment	0.1 lbs-ft [0.14 N-m]
Flat Plate Crush	10 lbs/in [0.18 Kg/mm]
Tensile Strength	40 lbs [18.14 Kg]

**Connectors**

Description	Connector 1	Connector 2
Type	QMA Male	SMA Female
Impedance	50 Ohms	50 Ohms
Mating Cycles	500	
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gold
Contact Plating Specification		50µ in. minimum
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating	Phosphor Bronze, Tri-Metal	
Body Material and Plating	Brass, Tri-Metal	Brass, Nickel
Body Plating Specification		100µ in. minimum

**Environmental Specifications**

**Temperature**

Operating Range -40 to +85 deg C

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

**Plotted and Other Data**

Notes:

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**RF Cable Assemblies Technical Data Sheet**

**PE3W12892/HS-48**

**How to Order**

Part Number Configuration:

**PE3W12892/HS - xx uu**

Unit of Measure:  
cm = Centimeters  
<blank> = Inches  
Length  
Base Number

Example: PE3W12892/HS-12 = 12 inches long cable  
PE3W12892/HS-100cm = 100 cm long cable

QMA Male to SMA Female Low Loss Cable Using LMR-195-UF Coax with HeatShrink in 48 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: [QMA Male to SMA Female Low Loss Cable Using LMR-195-UF Coax with HeatShrink in 48 Inch PE3W12892/HS-48](https://www.pasternack.com/qma-male-to-sma-female-low-loss-cable-using-lmr-195-uf-coax-with-heatshrink-pe3w12892-hs-48)

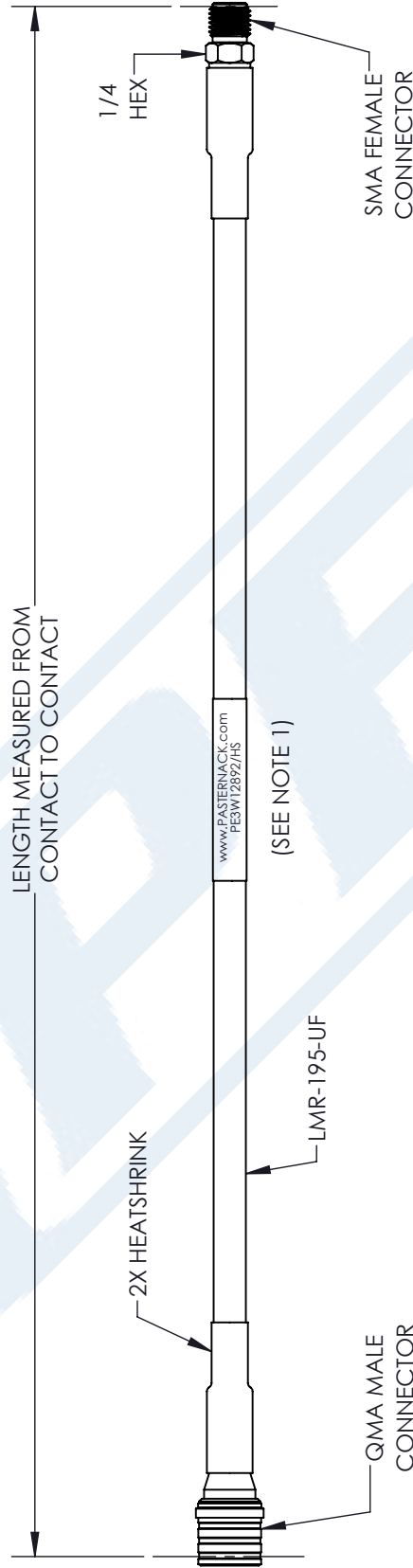
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The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. 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.

# PE3W12892/HS-48 CAD Drawing

## QMA Male to SMA Female Low Loss Cable Using LMR-195-UF Coax with HeatShrink in 48 Inch

REVISIONS		
REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	08/10/2022
		APPROVED AGANWANI



www.PASTERNAK.com  
PE3W12892/HS  
(SEE NOTE 1)

<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: www.pasternack.com E-mail: sales@pasternack.com</p>	<p>THIRD-ANGLE PROJECTION</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>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>SIZE</td> <td>CAGE CODE</td> <td>DRAWN BY</td> <td>ITEM NO.</td> </tr> <tr> <td style="text-align: center;">A</td> <td style="text-align: center;">53919</td> <td style="text-align: center;">BPUCHASKI</td> <td style="text-align: center;">PE3W12892/HS</td> </tr> <tr> <td colspan="4" style="text-align: center;">REV A</td> </tr> </table>	SIZE	CAGE CODE	DRAWN BY	ITEM NO.	A	53919	BPUCHASKI	PE3W12892/HS	REV A													
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<p>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS</p> <p>TOLERANCES:</p> <table style="width: 100%;"> <tr> <td>.X = ±.2</td> <td>[.008]</td> <td>FRACTIONS</td> <td></td> </tr> <tr> <td>.XX = ±.02</td> <td>[.51]</td> <td></td> <td>±.1/32</td> </tr> <tr> <td>.XXX = ±.005</td> <td>[.13]</td> <td>ANGLES ± 1°</td> <td></td> </tr> </table> <p>CABLE LENGTH (L), TOLERANCES:</p> <table style="width: 100%;"> <tr> <td>L ≤ 12 [305]</td> <td>= +1 [25] / -0</td> </tr> <tr> <td>12 [305] &lt; L ≤ 60 [1524]</td> <td>= +2 [51] / -0</td> </tr> <tr> <td>60 [1524] &lt; L ≤ 120 [3048]</td> <td>= +4 [102] / -0</td> </tr> <tr> <td>120 [3048] &lt; L ≤ 300 [7620]</td> <td>= +6 [152] / -0</td> </tr> <tr> <td>300 [7620] &lt; L</td> <td>= +5%L / -0</td> </tr> </table> <p>ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.</p>			.X = ±.2	[.008]	FRACTIONS		.XX = ±.02	[.51]		±.1/32	.XXX = ±.005	[.13]	ANGLES ± 1°		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%L / -0
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- NOTES:**
- CABLES 36" AND UNDER HAVE 1 LABEL CENTERED. CABLES OVER 36" HAVE 2 LABELS, ONE AT EACH END 6.0" FROM END OF CONNECTOR
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