



**QN Male to Reverse Polarity SMA Female Bulkhead Cable  
48 Inch Length Using LMR-195 Coax with Double HeatShrink**

**RF Cable Assemblies Technical Data Sheet**

**PE3W06854/HS2-48**

**Configuration**

- Connector 1: QN Male
- Connector 2: SMA Female Reverse Polarity Bulkhead
- Cable Type: LMR-195

**Features**

- Max Frequency 5.8 GHz
- Shielding Effectivity > 90 dB
- 80% Phase Velocity
- Double Shielded
- PE Jacket



**Applications**

- General Purpose
- Laboratory Use

**Description**

Pasternack's PE3W06854/HS2-48 QN male to reverse polarity SMA female bulkhead 48 inch cable using LMR-195 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 QN to reverse polarity SMA cable assembly has a male to female gender configuration with 50 ohm flexible LMR-195 coax. The PE3W06854/HS2-48 QN male to reverse polarity SMA female cable assembly operates to 5.8 GHz. Our RF cable assembly with SMA bulkhead interface 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. 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: [QN Male to Reverse Polarity SMA Female Bulkhead Cable 48 Inch Length Using LMR-195 Coax with Double HeatShrink PE3W06854/HS2-48](#)



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**Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		5.8	GHz
VSWR			1.5:1	
Velocity of Propagation		80		%
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 Km]		7.6 [24.93]		Ohms/1000ft [Ohms/ Km]
DC Resistance Outer Conductor Km]		4.9 [16.08]		Ohms/1000ft [Ohms/ Km]
Jacket Spark			3,000	Vrms

**Specifications by Frequency**

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	2	4	5.8	GHz
Insertion Loss (Max.)	0.53	0.67	0.88	1.16	1.4	dB

**Electrical Specification Notes:**

The Insertion Loss data above is based on the performance specifications of the coax use in the assembly. The Insertion Loss includes an estimated insertion loss of 0.2ddB of connector loss.

**Mechanical Specifications**

**Cable Assembly**

Length\* 48 in [121.92 cm]

**Cable**

Cable Type	LMR-195
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper
Dielectric Type	PE (F)
Number of Shields	2
Shield Layer 1	Aluminum Tape
Shield Layer 2	Tinned Copper Braid

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Jacket Material	PE, 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	0.2 lbs-ft [0.27 N-m]
Flat Plate Crush	15 lbs/in [0.27 Kg/mm]
Tensile Strength	40 lbs [18.14 Kg]

**Connectors**

Description	Connector 1	Connector 2
Type	QN Male	SMA Female Reverse Polarity Bulkhead
Impedance	50 Ohms	50 Ohms
Mating Cycles	100	
Contact Material and Plating	Brass, Silver	
Dielectric Type	PTFE	
Outer Conductor Material and Plating	Beryllium Copper	
Body Material and Plating	Brass, Silver	Brass, Nickel
Coupling Nut Material and Plating	Brass, Silver	

**Mechanical Specification Notes:**

\*All cable assemblies have a length tolerance of 1.5% or  $\pm 3/8"$ , whichever is greater.

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

**Plotted and Other Data**

Notes:

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**How to Order**

Part Number Configuration:

**PE3W06854/HS2**

**- xx**

**uu**

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

Example: PE3W06854/HS2-12 = 12 inches long cable  
PE3W06854/HS2-100cm = 100 cm long cable

QN Male to Reverse Polarity SMA Female Bulkhead Cable 48 Inch Length Using LMR-195 Coax with Double HeatShrink 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.

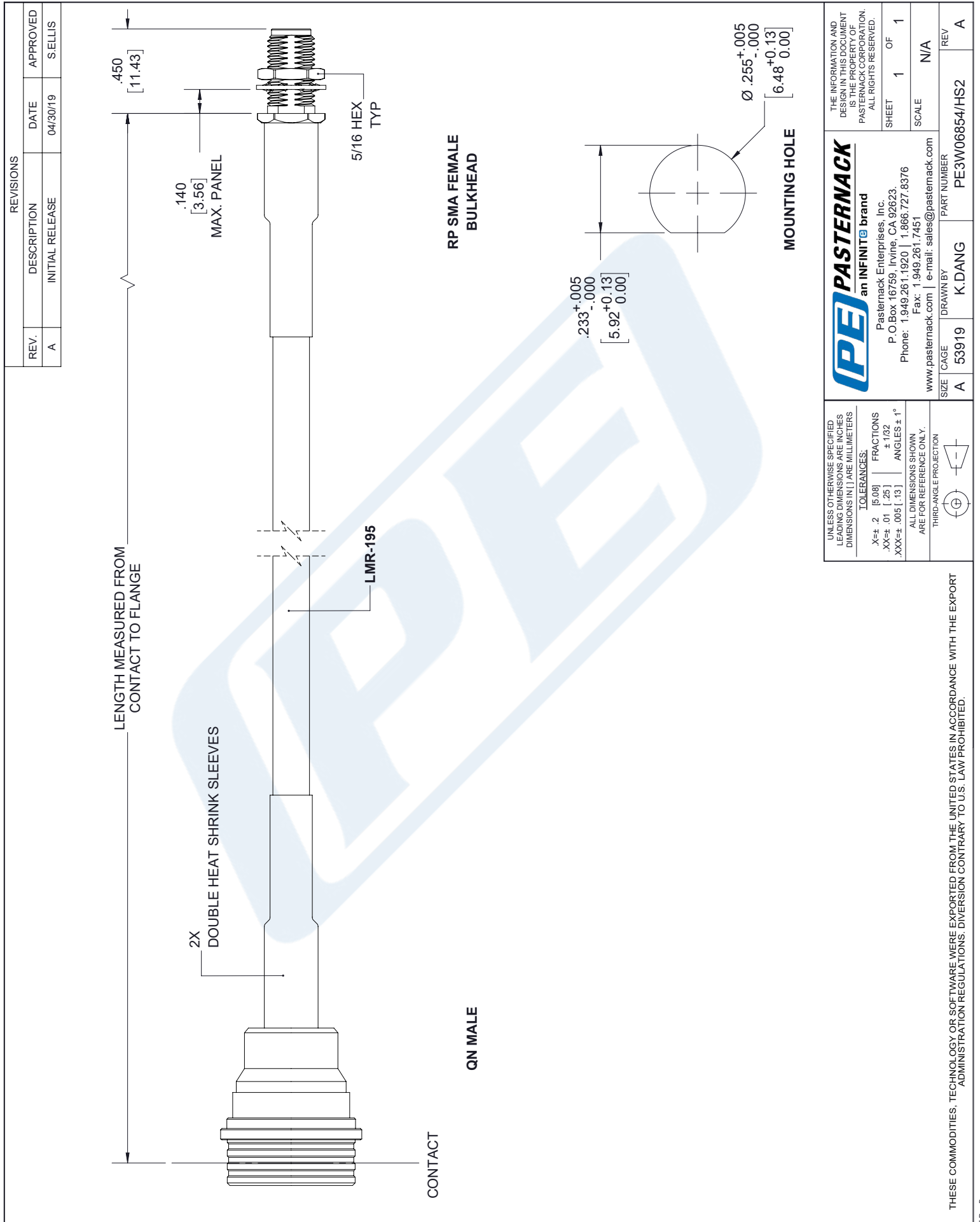
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [QN Male to Reverse Polarity SMA Female Bulkhead Cable 48 Inch Length Using LMR-195 Coax with Double HeatShrink PE3W06854/HS2-48](https://www.pasternack.com/qn-male-sma-female-lmr195-cable-assembly-pe3w06854-hs2-48-p.aspx)

URL: <https://www.pasternack.com/qn-male-sma-female-lmr195-cable-assembly-pe3w06854-hs2-48-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.

# PE3W06854/HS2-48 CAD Drawing

QN Male to Reverse Polarity SMA Female Bulkhead Cable 48 Inch  
Length Using LMR-195 Coax with Double HeatShrink



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

<b>PE PASTERNAK</b> an INFINITE brand Pasternack Enterprises, Inc. P.O. Box 16759, Irvine, CA 92623. Phone: 1.949.261.1920   1.866.727.8376 Fax: 1.949.261.7451 www.pasternack.com   e-mail: sales@pasternack.com	
SIZE	A
CAGE	53919
DRAWN BY	K.DANG
PART NUMBER	PE3W06854/HS2
REV	A

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SHEET	1 OF 1
SCALE	N/A