



## SMA Male Right Angle to QN Female Bulkhead Cable Using PE-SR402FLJ Coax

### RF Cable Assemblies Technical Data Sheet

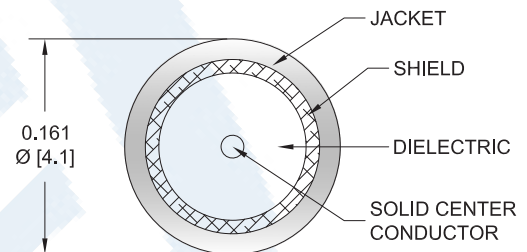
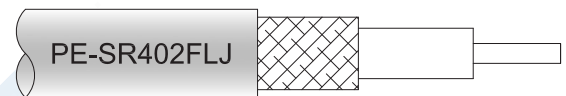
PE3W08408

#### Configuration

- Connector 1: SMA Male Right Angle
- Connector 2: QN Female Bulkhead
- Cable Type: PE-SR402FLJ

#### Features

- Max Frequency 10 GHz
- Shielding Effectivity > 100 dB
- 70% Phase Velocity
- FEP Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W08408 SMA male right angle to QN female bulkhead cable using PE-SR402FLJ coax is part of our full line of RF components available for same-day shipping. Pasternack's formable RF cable assemblies provide an alternative to costly pre-formed semi-rigid assemblies since they are hand formable. This Pasternack SMA to QN cable assembly has a male to female gender configuration with 50 ohm formable PE-SR402FLJ coax. The PE3W08408 SMA male to QN female cable assembly operates to 10 GHz. The right angle SMA interface on the PE-SR402FLJ cable allows for easier connections in tight spaces. Our RF cable assembly with QN 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.

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: [SMA Male Right Angle to QN Female Bulkhead Cable Using PE-SR402FLJ Coax PE3W08408](#)



SMA Male Right Angle to QN Female Bulkhead  
Cable Using PE-SR402FLJ Coax

RF Cable Assemblies Technical Data Sheet

PE3W08408

**Electrical Specifications**

| Description                   | Minimum | Typical     | Maximum | Units           |
|-------------------------------|---------|-------------|---------|-----------------|
| Frequency Range               | DC      |             | 10      | GHz             |
| VSWR                          |         |             | 1.5:1   |                 |
| Velocity of Propagation       |         | 70          |         | %               |
| RF Shielding                  | 100     |             |         | dB              |
| Group Delay                   |         | 1.43 [4.69] |         | ns/ft [ns/m]    |
| Capacitance                   |         | 29 [95.14]  |         | pF/ft [pF/m]    |
| DC Resistance Inner Conductor |         | 8.23 [27]   |         | Ω/1000ft [Ω/Km] |

**Specifications by Frequency**

| Description           | F1    | F2    | F3    | F4   | F5    | Units |
|-----------------------|-------|-------|-------|------|-------|-------|
| Frequency             | 0.5   | 1     | 2.5   | 5    | 10    | GHz   |
| Insertion Loss (Max.) | 0.083 | 0.125 | 0.199 | 0.32 | 0.482 | dB/ft |
|                       | 0.27  | 0.41  | 0.65  | 1.05 | 1.58  | dB/m  |

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.2 dB per SMA male right angle connector and 0.1 dB per QN female bulkhead connector.

**Mechanical Specifications**

**Cable Assembly**

Diameter 0.67 in [17.02 mm]

**Cable**

Cable Type PE-SR402FLJ  
 Impedance 50 Ohms  
 Inner Conductor Type Solid  
 Inner Conductor Material and Plating Copper, Silver  
 Dielectric Type PTFE  
 Number of Shields 1  
 Shield Layer 1 Tinned Copper Braid  
 Jacket Material FEP, Black  
 Jacket Diameter 0.161 in [4.09 mm]

One Time Minimum Bend Radius 0.315 in [8 mm]  
 Repeated Minimum Bend Radius 1.575 in [40.01 mm]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male Right Angle to QN Female Bulkhead Cable Using PE-SR402FLJ Coax PE3W08408](#)



SMA Male Right Angle to QN Female Bulkhead  
Cable Using PE-SR402FLJ Coax

RF Cable Assemblies Technical Data Sheet

PE3W08408

**Connectors**

| Description                          | Connector 1                | Connector 2                     |
|--------------------------------------|----------------------------|---------------------------------|
| Type                                 | SMA Male Right Angle       | QN Female Bulkhead              |
| Impedance                            | 50 Ohms                    | 50 Ohms                         |
| Mating Cycles                        |                            | 100                             |
| Contact Material and Plating         | Brass, Gold over Nickel    | Spring Bronze, Gold over Nickel |
| Contact Plating Specification        |                            | 0.15 µm minimum                 |
| Dielectric Type                      | PTFE                       | PTFE                            |
| Outer Conductor Material and Plating | Brass, Gold over Nickel    | Brass, Tri-Metal                |
| Body Material and Plating            | Brass, Gold over Nickel    | Brass, Tri-Metal                |
| Coupling Nut Material and Plating    | Passivated Stainless Steel |                                 |
| Hex Size                             | 5/16 inch                  |                                 |
| Torque                               | 8 in-lbs [0.9 Nm]          |                                 |

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

**Plotted and Other Data**

Notes:

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male Right Angle to QN Female Bulkhead Cable Using PE-SR402FLJ Coax PE3W08408](#)



## SMA Male Right Angle to QN Female Bulkhead Cable Using PE-SR402FLJ Coax

### RF Cable Assemblies Technical Data Sheet

PE3W08408

#### How to Order

Part Number Configuration:

**PE3W08408**

- **xx**

**uu**

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

Example: PE3W08408-12 = 12 inches long cable  
PE3W08408-100cm = 100 cm long cable

SMA Male Right Angle to QN Female Bulkhead Cable Using PE-SR402FLJ 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: [SMA Male Right Angle to QN Female Bulkhead Cable Using PE-SR402FLJ Coax PE3W08408](https://www.pasternack.com/sma-male-qn-female-pe-sr402flj-cable-assembly-pe3w08408-p.aspx)

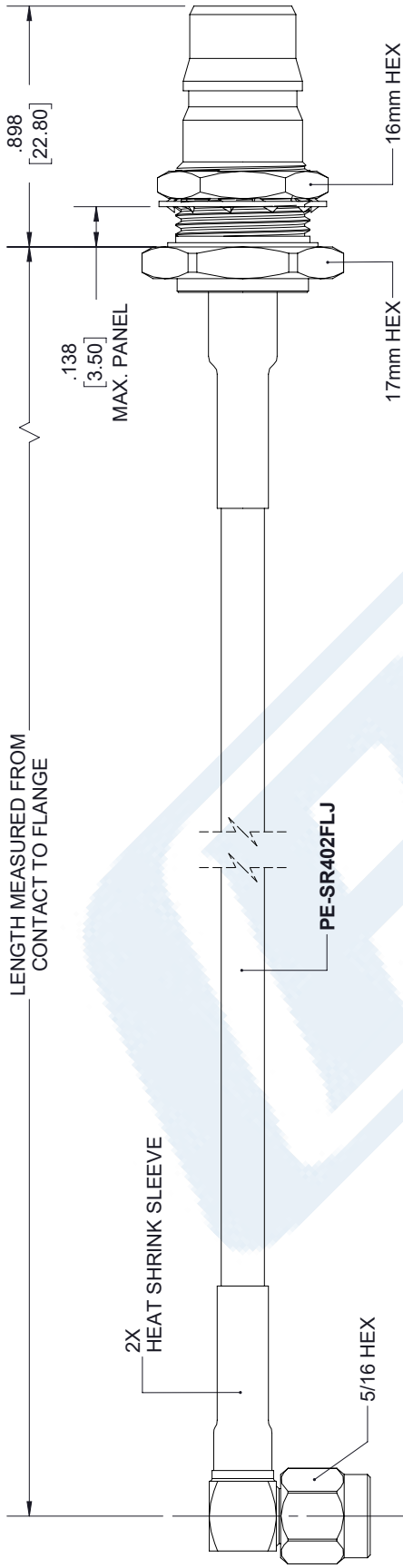
URL: <https://www.pasternack.com/sma-male-qn-female-pe-sr402flj-cable-assembly-pe3w08408-p.aspx>

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.

# PE3W08408 CAD Drawing

SMA Male Right Angle to QN Female Bulkhead Cable Using PE-SR402FLJ Coax

| REVISIONS |                 |           |          |
|-----------|-----------------|-----------|----------|
| REV.      | DESCRIPTION     | DATE      | APPROVED |
| A         | INITIAL RELEASE | 1/28/2020 | S.ELLIS  |



QN FEMALE BULKHEAD

MOUNTING HOLE

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

TOLERANCES:

.X = ±.2 [5.08]      FRACTIONS ± 1/32  
 .XX = ±.02 [.51]      ANGLES ± 1°  
 .XXX = ±.005 [.13]      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% L / -0

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.



THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF PASTERNAK CORPORATION ALL RIGHTS RESERVED.

SHEET 1 OF 1

SCALE N/A

REV A



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

|      |           |          |           |
|------|-----------|----------|-----------|
| SIZE | CAGE CODE | DRAWN BY | ITEM NO   |
| A    | 53919     | K. DANG  | PE3W08408 |

THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.