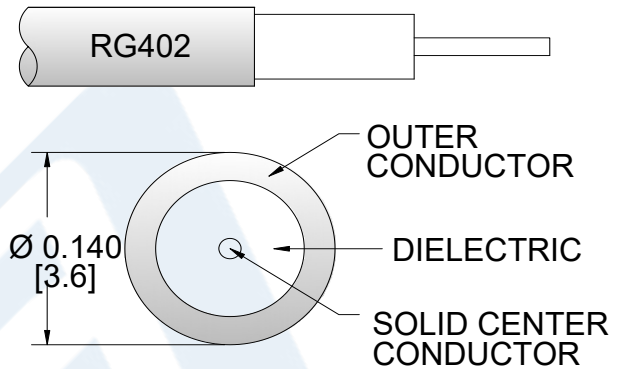| TECHNICAL DATA SHEET	PE3W09308

Configuration

- Connector 1: SMA Male
- Connector 2: SMA Female Bulkhead
- Cable Type: RG402 Tinned
- Coax Flex Type: Semi-Rigid

Features

- Max Frequency 18 GHz

Applications

- General Purpose
- Laboratory Use

RG402

Ø 0.140 [3.6]

OUTER CONDUCTOR
DIELECTRIC
SOLID CENTER CONDUCTOR

Description

Pasternack's PE3W09308 SMA male to SMA female bulkhead cable using tinned RG402 coax is part of our full line of RF components available for same-day shipping. Pasternack's semi-rigid RF cable assemblies are ideal for high performance applications and can be formed, using proper tooling, to the routing pattern required. This Pasternack SMA to SMA cable assembly has a male to female gender configuration with 50 ohm semi-rigid RG402 tinned coax. The PE3W09308 SMA male to SMA female cable assembly operates to 18 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.

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 to SMA Female Bulkhead Cable Using Tinned RG402 Coax PE3W09308

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
Phone: (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451

Sales@Pasternack.com • Techsupport@Pasternack.com

PE3W09308 REV 1.0
1

PASTERNACK
an INFINITe brand

SMA Male to SMA Female Bulkhead Cable
Using Tinned RG402 Coax

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz

Specifications by Frequency

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	1000	2000	4500	9000	#####	MHz	
PE3W09308	Custom Lengths Available	Insertion Loss (Typ.)	0.12	0.15	0.24	0.41	0.65	dB/ft	
			0.4	0.5	0.79	1.35	2.14	dB/m	
PE3W09308-6	6 inch	Insertion Loss (Typ.)	0.26	0.28	0.32	0.41	0.53	dB	0.031
PE3W09308-12	12 inch	Insertion Loss (Typ.)	0.32	0.35	0.44	0.61	0.85	dB	0.046
PE3W09308-18	18 inch	Insertion Loss (Typ.)	0.38	0.43	0.56	0.82	1.18	dB	0.062
PE3W09308-24	24 inch	Insertion Loss (Typ.)	0.44	0.5	0.68	1.02	1.5	dB	0.078
PE3W09308-36	36 inch	Insertion Loss (Typ.)	0.56	0.65	0.92	1.43	2.15	dB	0.109

The insertion loss data for the base model does not include loss due to the connectors. Each length includes insertion loss due to the connectors.

Loss due to Connector 1:	0.1	dB
Loss due to Connector 2:	0.1	dB
Base Weight:	0.046	pounds
Additional Weight per Inch:	0.00259	pounds

Electrical Specification Notes:
Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB per connector.

Mechanical Specifications

Cable Assembly

Weight   0.046 lbs [20.87 g]

Cable
Cable Type   RG402 Tinned
Impedance   50 Ohms
Inner Conductor Type   Solid
Inner Conductor Material and Plating   Copper Clad Steel, Silver
Dielectric Type   PTFE
Number of Shields   1
Shield Layer 1   Tinned Copper

One Time Minimum Bend Radius   1 in [25.4 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 to SMA Female Bulkhead Cable Using Tinned RG402 Coax PE3W09308

TECHNICAL DATA SHEET   PE3W09308

Connectors

Description	Connector 1	Connector 2
Type	SMA Male Threaded	SMA Female Bulkhead Threaded
Specification	MIL-STD-348A	
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gold over Nickel
Contact Plating Specification	50 µin minimum	
Dielectric Type	PTFE	PTFE
Body Material and Plating	Stainless Steel, Gold	Brass, Gold over Nickel
Body Plating Specification	10 µin minimum	
Coupling Nut Material and Plating	Brass, Nickel	
Coupling Nut Plating Specification	100 µin minimum	
Hex Size	5/16 inch	
Torque	3 in-lbs [0.34 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 to SMA Female Bulkhead Cable Using Tinned RG402 Coax PE3W09308

SMA Male to SMA Female Bulkhead Cable
Using Tinned RG402 Coax

TECHNICAL DATA SHEET	PE3W09308

How to Order

Part Number Configuration: **PE3W09308**   **- xx**   **uu**

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

Example: PE3W09308-12 = 12 inches long cable
PE3W09308-100cm = 100 cm long cable

SMA Male to SMA Female Bulkhead Cable Using Tinned RG402 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 to SMA Female Bulkhead Cable Using Tinned RG402 Coax PE3W09308

URL: https://www.pasternack.com/sma-male-sma-female-tinned-rg402-cable-assembly-pe3w09308-p.aspx

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
Phone: (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451
Sales@Pasternack.com • Techsupport@Pasternack.com

© 2020 Pasternack Enterprises All Rights Reserved   PE3W09308 REV 1.0   4

PE3W09308 CAD Drawing
SMA Male to SMA Female Bulkhead Cable Using Tinned RG402 Coax

.42 [10.6]

.06 [1.5] MAX PANEL

SOLDER

7/16 HEX

5/16 HEX

SMA FEMALE BULKHEAD MOUNT CONNECTOR

LENGTH SEE NOTE 3

RG402 COAX CABLE

WWW.PASTERNACK.COM
PEXXXXXX-XX

LABEL SEE NOTE 1

.233 [5.92] MIN

Ø .255 [6.48] MIN

RECOMMENDED MOUNTING HOLE

5/16 HEX

SOLDER

SMA MALE CONNECTOR

NOTES:
1. CABLE ASSEMBLY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROXIMATELY CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY 6 INCHES FROM EACH CONNECTOR.
2. CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
3. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.

DESCRIPTION: SMA MALE TO SMA FEMALE BULKHEAD CABLE USING TINNED RG402 COAX

CAGE CODE	53919
ITEM NO.	PE3W09308
DRAWN BY	HBAKKE
SIZE	A

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE NONE

SHEET 1 OF 1

REV A

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

TOLERANCES:
X = ±.2 [5]
XX = ±.02 [0.5]
XXX = ±.005 [0.13]

FRACTIONS ± 1/32
ANGLES ± 1°

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

REVISION

ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
	A	INITIAL RELEASE	10/17/2023	HBAKKE	AGANWANI

PE3W09308 REV 1.0

PE DS Rev-D4 Asize