



Reverse Polarity SMA Female Bulkhead to TNC Male Right Angle Cable 12 Inch Length Using RG400 Coax

RF Cable Assemblies Technical Data Sheet

PE3W09929-12

Configuration

- Connector 1: SMA Female Reverse Polarity Bulkhead
- Connector 2: TNC Male Right Angle
- Cable Type: RG400

Features

- Max Frequency 3 GHz
- 70% Phase Velocity
- Double Shielded
- FEP Jacket

Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W09929-12 reverse polarity SMA female bulkhead to TNC male right angle 12 inch cable using RG400 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 reverse polarity SMA to TNC cable assembly has a female to male gender configuration with 50 ohm flexible RG400 coax. The PE3W09929-12 reverse polarity SMA female to TNC male cable assembly operates to 3 GHz. The right angle TNC interface on the RG400 cable allows for easier connections in tight spaces. 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.

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: [Reverse Polarity SMA Female Bulkhead to TNC Male Right Angle Cable 12 Inch Length Using RG400 Coax PE3W09929-12](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
VSWR			1.45:1	
Velocity of Propagation		70		%
Capacitance		32 [104.99]		pF/ft [pF/m]

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	3	GHz
Insertion Loss (Typ.)	0.34	0.36	0.39	0.45	0.57	dB

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax cable and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1 dB for the straight connector and 0.2 dB for the right angle connector.

Mechanical Specifications

Cable Assembly

Length*	12 in [304.8 mm]
Diameter	0.57 in [14.48 mm]

Cable

Cable Type	RG400
Impedance	50 Ohms
Inner Conductor Type	Stranded
Inner Conductor Material and Plating	Copper, Silver
Dielectric Type	PTFE
Number of Shields	2
Shield Layer 1	Silver Plated Copper Braid
Shield Layer 2	Silver Plated Copper Braid
Jacket Material	FEP, Tan
Jacket Diameter	0.195 in [4.95 mm]

Repeated Minimum Bend Radius	1 in [25.4 mm]
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Reverse Polarity SMA Female Bulkhead to TNC Male
Right Angle Cable 12 Inch Length Using RG400 Coax

RF Cable Assemblies Technical Data Sheet

PE3W09929-12

Connectors

Description	Connector 1	Connector 2
Type	SMA Female Reverse Polarity Bulkhead	TNC Male Right Angle
Specification	MIL-STD-348	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Gold	Brass, Gold
Contact Plating Specification	MIL-G-45204	30 µin minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	QQ-N-290	100 µin minimum
Coupling Nut Material and Plating		Brass, Nickel
Coupling Nut Plating Specification		100 µin minimum

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

Plotted and Other Data

Notes:

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Reverse Polarity SMA Female Bulkhead to TNC Male
Right Angle Cable 12 Inch Length Using RG400 Coax

RF Cable Assemblies Technical Data Sheet

PE3W09929-12

How to Order

Part Number Configuration:

PE3W09929

- **xx**

uu

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

Example: PE3W09929-12 = 12 inches long cable
PE3W09929-100cm = 100 cm long cable

Reverse Polarity SMA Female Bulkhead to TNC Male Right Angle Cable 12 Inch Length Using RG400 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: [Reverse Polarity SMA Female Bulkhead to TNC Male Right Angle Cable 12 Inch Length Using RG400 Coax PE3W09929-12](https://www.pasternack.com/sma-female-tnc-male-rg400u-cable-assembly-pe3w09929-12-p.aspx)

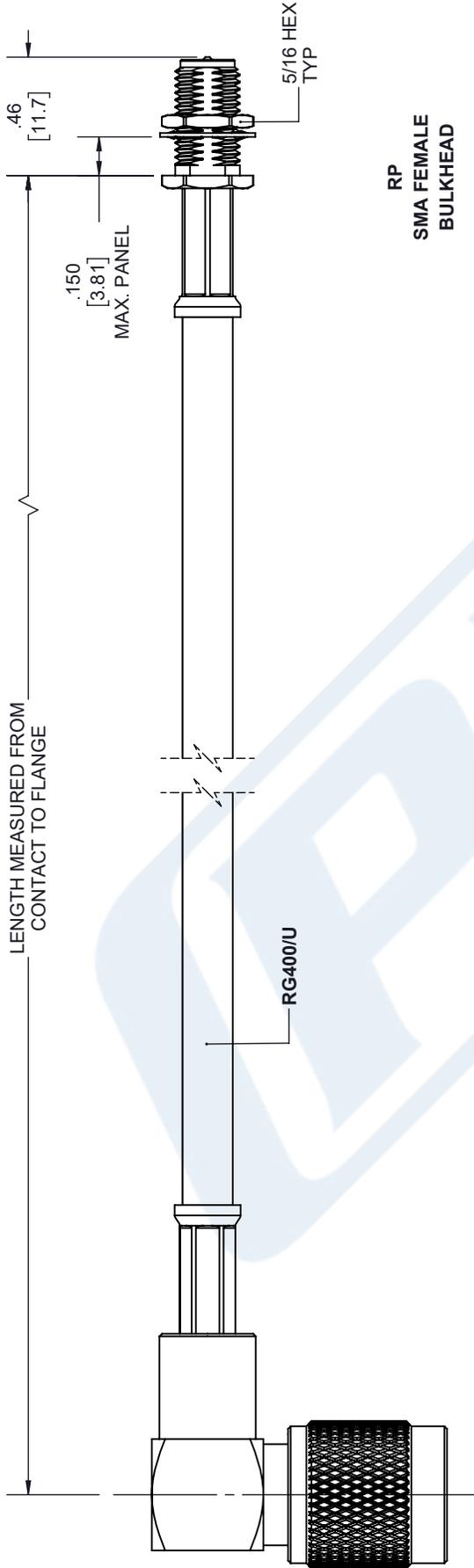
URL: <https://www.pasternack.com/sma-female-tnc-male-rg400u-cable-assembly-pe3w09929-12-p.aspx>

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.

PE3W09929-12 CAD Drawing

Reverse Polarity SMA Female Bulkhead to TNC Male Right Angle
Cable 12 Inch Length Using RG400 Coax

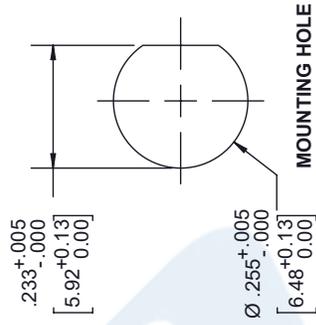
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	11/30/2020	S. ELLIS



RP
SMA FEMALE
BULKHEAD

RG400/U

CONTACT
TNC MALE
RA



<p>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS</p> <p>TOLERANCES:</p> <p>.X = ±.2 [.008] FRACTIONS ± 1/32 .XX = ±.02 [.51] ANGLES ± 1° .XXX = ±.005 [.13]</p> <p>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</p> <p>ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.</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>	
<p>ITEM NO. PE3W09929</p>		
<p>REV A</p>		

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