



# SMA Female Bulkhead to Reverse Polarity SMA Male Cable 12 Inch Length Using RG141 Coax

## RF Cable Assemblies Technical Data Sheet

PE3W02965-12

### Configuration

- Connector 1: SMA Female Bulkhead
- Connector 2: SMA Male Reverse Polarity
- Cable Type: RG141

### Features

- Max Frequency 6 GHz
- PTFE (FG) Jacket

### Applications

- General Purpose
- Laboratory Use

### Description

Pasternack's PE3W02965-12 SMA female bulkhead to reverse polarity SMA male 12 inch cable using RG141 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 SMA to reverse polarity SMA cable assembly has a female to male gender configuration with 50 ohm flexible RG141 coax. The PE3W02965-12 SMA female to reverse polarity SMA male cable assembly operates to 6 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.

### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
VSWR			1.5:1	
Capacitance		29.4 [96.46]		pF/ft [pF/m]
Jacket Spark			2,000	Vrms

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Female Bulkhead to Reverse Polarity SMA Male Cable 12 Inch Length Using RG141 Coax PE3W02965-12](#)



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### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	2	4	6	GHz
Insertion Loss (Max.)	0.279	0.329	0.387	0.501	0.611	dB

### Electrical Specification Notes:

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

### Mechanical Specifications

#### Cable Assembly

Length\* 12 in [304.8 mm]

#### Cable

Cable Type RG141  
 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 Silver Plated Copper  
 Jacket Material PTFE (FG), Beige  
 Jacket Diameter 0.19 in [4.83 mm]

#### Connectors

Description	Connector 1	Connector 2
Type	SMA Female Bulkhead	SMA Male Reverse Polarity
Impedance	50 Ohms	50 Ohms
Body Material and Plating	Brass, Nickel	Brass, Nickel

### 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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RF Cable Assemblies Technical Data Sheet

PE3W02965-12

**How to Order**

Part Number Configuration:

**PE3W02965**

- **xx**

**uu**

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

Example: PE3W02965-12 = 12 inches long cable  
 PE3W02965-100cm = 100 cm long cable

SMA Female Bulkhead to Reverse Polarity SMA Male Cable 12 Inch Length Using RG141 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 Female Bulkhead to Reverse Polarity SMA Male Cable 12 Inch Length Using RG141 Coax PE3W02965-12](https://www.pasternack.com/sma-female-sma-male-rg141au-cable-assembly-pe3w02965-12-p.aspx)

URL: <https://www.pasternack.com/sma-female-sma-male-rg141au-cable-assembly-pe3w02965-12-p.aspx>

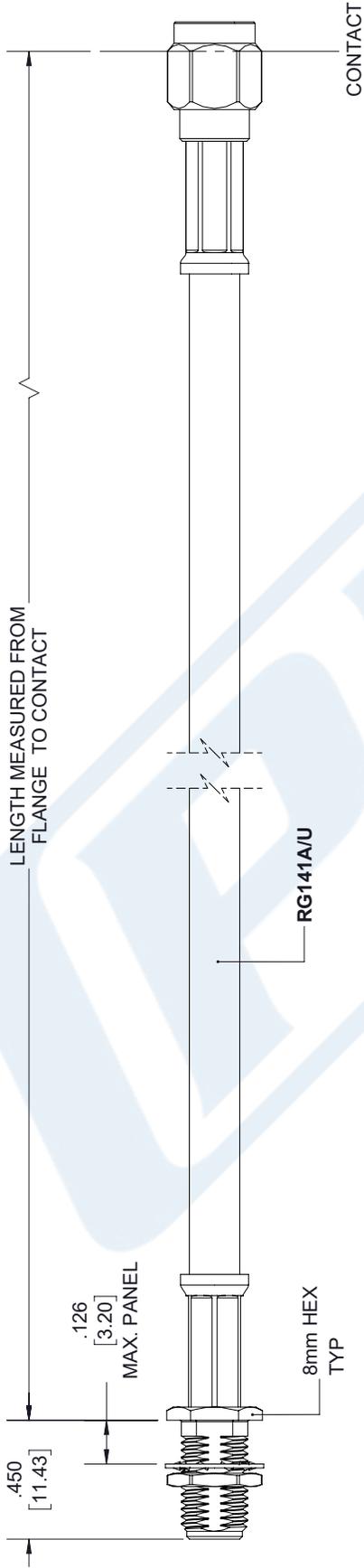
The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such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

# PE3W02965-12 CAD Drawing

## SMA Female Bulkhead to Reverse Polarity SMA Male

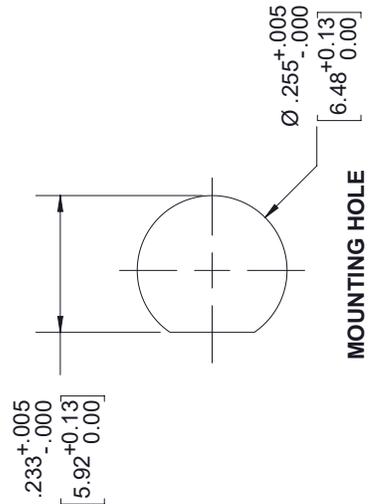
### Cable 12 Inch Length Using RG141 Coax

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	04/23/19	S.ELLIS



**SMA FEMALE  
BULKHEAD**

**RP SMA  
MALE**



UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS	
TOLERANCES:	FRACTIONS
X±.2 [5.08]	±.132
.XX±.01 [0.25]	ANGLES ± 1°
.XXX±.005 [0.13]	
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.	
THIRD-ANGLE PROJECTION	

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SIZE	CAGE	DRAWN BY	PART NUMBER
A	53919	K.DANG	PE3W02965
SHEET 1 OF 1			REV A
SCALE N/A			

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