



Reverse Polarity TNC Male to TNC Female Bulkhead Cable
12 Inch Length Using RG142 Coax with HeatShrink

RF Cable Assemblies Technical Data Sheet

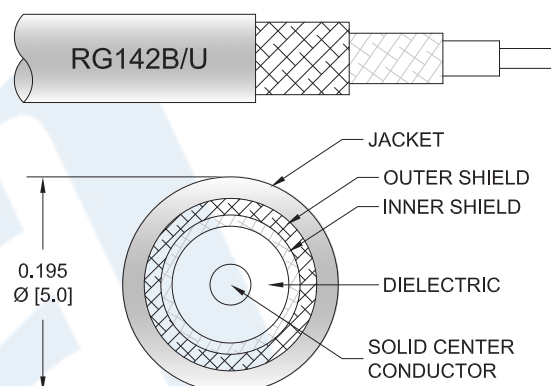
PE39231/HS-12

Configuration

- Connector 1: TNC Male Reverse Polarity
- Connector 2: TNC Female Bulkhead
- Cable Type: RG142

Features

- Max Frequency 4 GHz
- 70% Phase Velocity
- Double Shielded
- FEP Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE39231/HS-12 reverse polarity TNC male to TNC female bulkhead 12 inch cable using RG142 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 TNC to TNC cable assembly has a male to female gender configuration with 50 ohm flexible RG142 coax. The PE39231/HS-12 reverse polarity TNC male to TNC female cable assembly operates to 4 GHz. Our RF cable assembly with TNC 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 TNC Male to TNC Female Bulkhead Cable 12 Inch Length Using RG142 Coax with HeatShrink PE39231/HS-12](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		4	GHz
VSWR			1.45:1	
Velocity of Propagation		70		%
Capacitance		29.4 [96.46]		pF/ft [pF/m]

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	4	GHz
Insertion Loss (Max.)	0.32	0.37	0.46	0.62	1.09	dB

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax used in this assembly. Insertion Loss is estimated as 0.1 dB per connector.

Mechanical Specifications

Cable Assembly

Length* 12 in [304.8 mm]

Cable

Cable Type RG142
Impedance 50 Ohms
Inner Conductor Type Solid
Inner Conductor Material and Plating Copper Clad Steel, 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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Connectors

Description	Connector 1	Connector 2
Type	TNC Male Reverse Polarity	TNC Female Bulkhead
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold	
Contact Plating Specification	30 μ in minimum	
Dielectric Type	PTFE	
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	100 μ in minimum	
Coupling Nut Material and Plating	Brass, Nickel	
Coupling Nut Plating Specification	100 μ in minimum	

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

Plotted and Other Data

Notes:

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PE39231/HS-12

How to Order

Part Number Configuration:

PE39231/HS - xx

uu

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

Example: PE39231/HS-12 = 12 inches long cable
PE39231/HS-100cm = 100 cm long cable

Reverse Polarity TNC Male to TNC Female Bulkhead Cable 12 Inch Length Using RG142 Coax with 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.

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URL:

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.

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Technical drawing of a TNC female bulkhead connector assembly. The drawing shows a side view of the assembly with dimensions and labels. Key components include a 5/8 HEX nut, 11/16 HEX nut, MAX. PANEL, 2X HEAT SHRINK SLEEVE, RG142B/U cable, and RP TNC MALE connector. Dimensions include .76 [19.2] for the total length, .134 [3.40] for the panel thickness, and .472+0.005/-0.000 [11.99+0.13/0.00] for the mounting hole diameter. A detail view of the mounting hole shows a diameter of Ø .505+0.005/-0.000 [12.83+0.13/0.00].

TOLERANCES:	
$X \pm z$	FRACTIONS $\pm 1/32$ ANGLES $\pm 1^\circ$
$XX \pm .02$	$[.51]$
$XXX \pm .005$	$[.13]$
CABLE LENGTH (L) TOLERANCES:	
$L \leq 12 [305] = +1 [25] / -0$ $12 [305] < L \leq 60 [1524] = +2 [51] / -0$ $60 [1524] < L \leq 120 [3048] = +4 [102] / -0$ $120 [3048] < L \leq 300 [7620] = +6 [152] / -0$ $300 [7620] < L = +5\% L / -0$	
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.	

SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	53919	K. DANG	PE399

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SHEET	1	OF	1
SCALE	N/A		
31/HS	REV		A

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