

Reverse Polarity TNC Plug Right Angle to TNC Male  
Right Angle Cable Using RG58 Coax with HeatShrink



## RF Cable Assemblies Technical Data Sheet

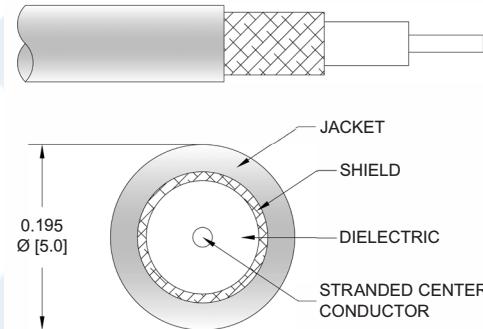
**PE3W12389/HS**

### Configuration

- Connector 1: TNC Plug Reverse Polarity Right Angle
- Connector 2: TNC Male Right Angle
- Cable Type: RG58

### Features

- Max Frequency 3 GHz
- 65.9% Phase Velocity
- PVC (NC) Jacket



### Applications

- General Purpose
- Laboratory Use

### Description

Pasternack's PE3W12389/HS reverse polarity TNC plug right angle to TNC male right angle cable using RG58 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 plug to male gender configuration with 50 ohm flexible RG58 coax. The PE3W12389/HS reverse polarity TNC plug to TNC male cable assembly operates to 3 GHz. The right angle TNC interfaces on the RG58 cable allow for easier connections in tight spaces.

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 Plug Right Angle to TNC Male Right Angle Cable Using RG58 Coax with HeatShrink PE3W12389/HS](#)



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**PE3W12389/HS**

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
VSWR			1.4:1	
Velocity of Propagation		65.9		%
Capacitance		30.8 [101.05]		pF/ft [pF/m]
Operating Voltage (AC)			500	Vrms

#### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	3	GHz
Insertion Loss (Typ.)	0.049	0.074	0.116	0.2	0.15	dB/ft
	0.16	0.24	0.38	0.66	0.49	dB/m

#### Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.2 dB per connector.

#### Mechanical Specifications

##### Cable Assembly

Weight 0.173 lbs [78.47 g]

##### Cable

Cable Type RG58  
Impedance 50 Ohms  
Inner Conductor Type Stranded  
Inner Conductor Material and Plating Copper, Tin  
Dielectric Type PE  
Number of Shields 1  
Shield Layer 1 Tinned Copper Braid  
Jacket Material PVC (NC), Black  
Jacket Diameter 0.195 in [4.95 mm]

One Time Minimum Bend Radius 0.98 in [24.89 mm]  
Repeated Minimum Bend Radius 1.96 in [49.78 mm]

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**PE3W12389/HS**

#### Connectors

Description	Connector 1	Connector 2
Type	TNC Plug Reverse Polarity Right Angle	TNC Male Right Angle
Specification	MIL-C-39012	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	30 $\mu$ in minimum	30 $\mu$ in minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	100 $\mu$ in minimum	100 $\mu$ in minimum
Coupling Nut Material and Plating	Brass, Nickel	Brass, Nickel
Coupling Nut Plating Specification	100 $\mu$ in minimum	100 $\mu$ in minimum

#### Mechanical Specification Notes:

When attaching the connector to the cable, use a clamp torque value of 26 to 30 in-lbs [2.94 to 3.39 Nm]

#### Environmental Specifications

##### Temperature

Operating Range

-40 to +80 deg C

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

#### Plotted and Other Data

Notes:

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**RF Cable Assemblies Technical Data Sheet**

**PE3W12389/HS**

**How to Order**

Part Number Configuration:

**PE3W12389/HS - xx uu**

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

Example: PE3W12389/HS-12 = 12 inches long cable  
PE3W12389/HS-100cm = 100 cm long cable

Reverse Polarity TNC Plug Right Angle to TNC Male Right Angle Cable Using RG58 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: <https://www.pasternack.com/reverse-polarity-tnc-plug-right-angle-to-tnc-male-cable-using-rg58-with-heatshrink-pe3w12389-hs-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.

# PE3W12389/HS CAD Drawing

## Reverse Polarity TNC Plug Right Angle to TNC Male Right Angle Cable Using RG58 Coax with HeatShrink

INITIAL RELEASE 01/13/2023 AGLEBUVA AGANVANI A

The diagram illustrates a coaxial cable assembly. A vertical line on the left is labeled 'LENGTH' at the top and has arrows at both ends. The cable itself is labeled 'RG58C/U CABLE' and '2X HEAT SHRINK'. It features two black, ribbed TNC connectors, one at the top labeled 'TNC MALE RIGHT ANGLE CONNECTOR' and one at the bottom labeled 'REVERSE POLARITY TNC PLUG RIGHT ANGLE CONNECTOR'. A central rectangular label is attached to the cable, with the text 'www.pasternack.com' and 'P000000X' printed on it. An arrow points to this label with the text 'LABEL SEE NOTE 1'. A dimension line indicates a width of '11mm ACROSS FLATS' between the two TNC connectors.

## NOTES:

1. CABLE ASSEMBLY LENGTH LABEL PLACEMENT:  
36 INCHES OR LESS, ONE LABEL APPROXIMATELY CENTERED  
LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY  
FROM EACH CONNECTOR.  
CABLES ASSEMBLIES SHALL BE TESTED FOR CONTINUITY

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UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5										
TOLERANCES: <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td><math>X = \pm 2</math></td> <td><math>[.5]</math></td> <td>FRACTIONS</td> </tr> <tr> <td><math>.XX = \pm .02</math></td> <td><math>[.1]</math></td> <td><math>\pm 152</math></td> </tr> <tr> <td><math>.XXX = \pm .005</math></td> <td><math>[.013]</math></td> <td>ANGLES <math>\pm 1^\circ</math></td> </tr> </table>		$X = \pm 2$	$[.5]$	FRACTIONS	$.XX = \pm .02$	$[.1]$	$\pm 152$	$.XXX = \pm .005$	$[.013]$	ANGLES $\pm 1^\circ$	SHEET 1 OF 1	
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CABLE LENGTH TOLERANCES:  $>12 [305] = \pm 12 [305]$ $>12 [305] \leq 60 [1524] = \pm 2 [51] / -0$ $>60 [1524] \leq 120 [3048] = \pm 4 [102] / -0$ $>120 [3048] \leq 300 [7620] = \pm 6 [152] / -0$ $>300 [7620] = \pm 5 [152] / -0$		DESCRIPTION  <b>REVERSE POLARITY TNC PLUG RIGHT ANGLE TO TNC MALE          RIGHT ANGLE CABLE USING RG58 COAX WITH HEATSHRINK</b>										
A	53919	DRAWN BY KGLEBOVA	ITEM NO. PE3W12389/HS									
ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE.		REV A										