



TNC Male to Push-On SMP Female Right Angle Cable 50 cm Length Using RG316 Coax

RF Cable Assemblies Technical Data Sheet

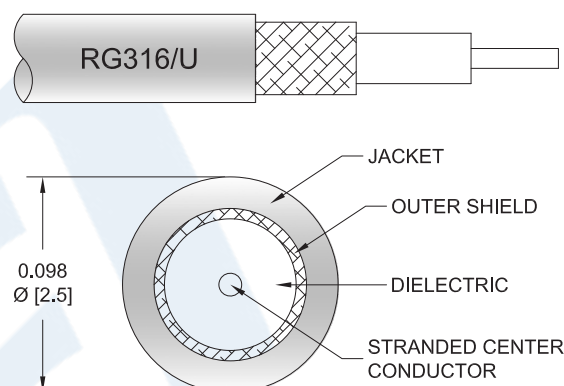
PE3W05738-50CM

Configuration

- Connector 1: TNC Male
- Connector 2: Push-OnSMP Female Right Angle
- Cable Type: RG316

Features

- Max Frequency 2.5 GHz
- 69% Phase Velocity
- FEP Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W05738-50CM TNC male to SMP female push-on right angle 50 cm cable using RG316 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 TNC to SMP cable assembly has a male to female gender configuration with 50 ohm flexible RG316 coax. The PE3W05738-50CM TNC male to SMP female cable assembly operates to 2.5 GHz. The right angle SMP interface on the RG316 cable allows 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.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		2.5	GHz
VSWR			1.5:1	
Velocity of Propagation		69		%
Capacitance		29.4 [96.46]		pF/ft [pF/m]
Operating Voltage (AC)			350	Vrms
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: [TNC Male to Push-On SMP Female Right Angle Cable 50 cm Length Using RG316 Coax PE3W05738-50CM](#)



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Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	3	GHz
Insertion Loss (Max.)	0.57	0.69	0.93	1.17	1.26	dB

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.3dB of connector loss.

Mechanical Specifications

Cable Assembly

Length*	19.68 in [499.87 mm]
Diameter	0.6 in [15.24 mm]

Cable

Cable Type	RG316
Impedance	50 Ohms
Inner Conductor Type	Stranded
Inner Conductor Material and Plating	Copper Clad Steel, Silver
Dielectric Type	PTFE
Number of Shields	1
Shield Layer 1	Silver Plated Copper Braid
Jacket Material	FEP, Tan
Jacket Diameter	0.102 in [2.59 mm]

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Connectors

Description	Connector 1	Connector 2
Type	TNC Male	SMP Female Right Angle
Specification		MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Connection Method		Push-On
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Contact Plating Specification		30μ in. minimum
Dielectric Type	Teflon	Teflon
Outer Conductor Material and Plating		Beryllium Copper, Gold
Outer Conductor Plating Specification		3μ in. minimum
Body Material and Plating	Brass, Silver	Brass, Gold
Body Plating Specification		3μ in. minimum
Coupling Nut Material and Plating	Brass, Silver	

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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PE3W05738-50CM

How to Order

Part Number Configuration:

PE3W05738

- **xx**

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

Example: PE3W05738-12 = 12 inches long cable
PE3W05738-100cm = 100 cm long cable

TNC Male to Push-On SMP Female Right Angle Cable 50 cm Length Using RG316 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: [TNC Male to Push-On SMP Female Right Angle Cable 50 cm Length Using RG316 Coax PE3W05738-50CM](https://www.pasternack.com/tnc-male-smp-female-rg316u-cable-assembly-pe3w05738-50cm-p.aspx)

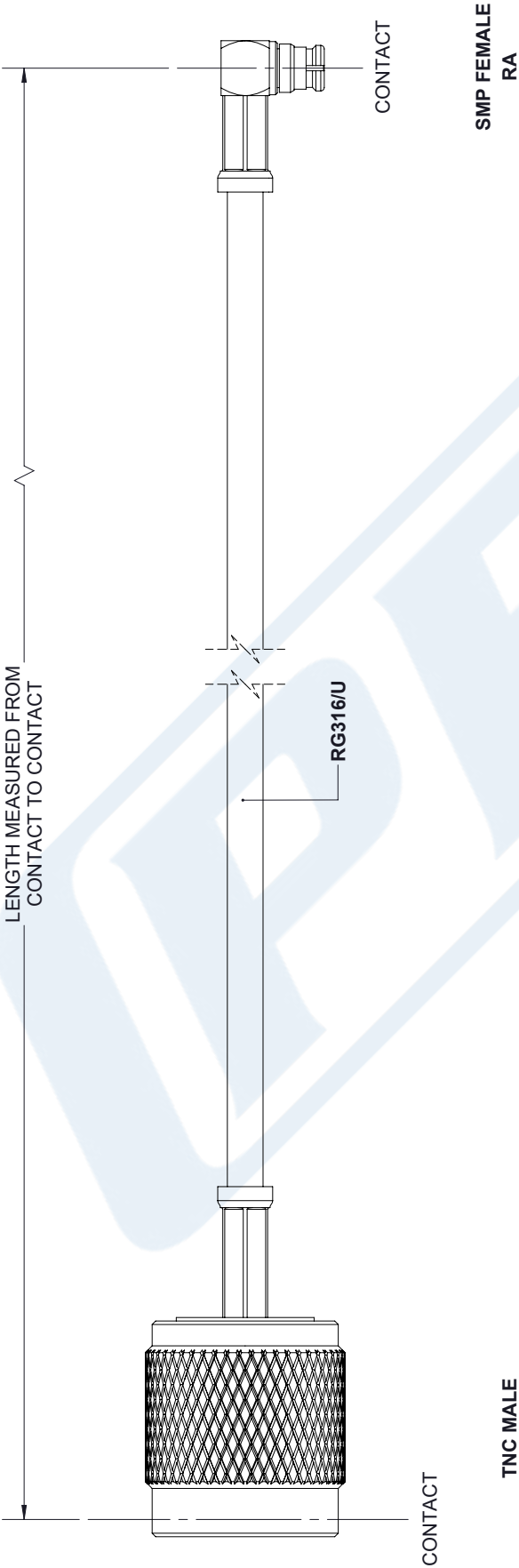
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PE3W05738-50CM CAD Drawing

TNC Male to Push-On SMP Female Right Angle Cable 50 cm Length Using RG316 Coax

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	05/02/19	SELLIS



UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS			
TOLERANCES:			
X±.2	[5.08]	FRACTIONS	
.XX±.01	[.25]		±.132
.XXX±.005	[.13]	ANGLES ± 1°	
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.			
THIRD-ANGLE PROJECTION			

		Pasternack Enterprises, Inc. P.O. Box 16759, Irvine, CA 92623. Phone: 1.949.261.1920 1.866.727.8376 Fax: 1.949.261.7451 www.pasternack.com e-mail: sales@pasternack.com	
SIZE	CAGE	DRAWN BY	PART NUMBER
A	53919	K.DANG	PE3W05738
			REV
			A

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SCALE		N/A	

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