

TNC Female to SMA Male Cable Using RG400 Coax



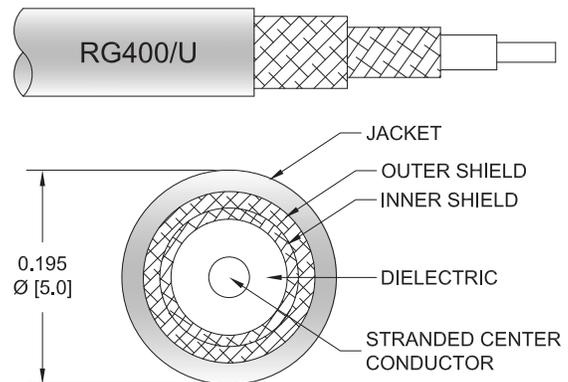
PE3W17216

Configuration

- Connector 1: TNC Female
- Connector 2: SMA Male
- Cable Type: RG400
- Coax Flex Type: Flexible

Features

- Max Frequency 11 GHz
- 70% Phase Velocity
- Double Shielded
- FEP Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W17216 TNC female to SMA male 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 TNC to SMA cable assembly has a female to male gender configuration with 50 ohm flexible RG400 coax. The PE3W17216 TNC female to SMA male cable assembly operates to 11 GHz. 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.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		11	GHz
VSWR			1.4:1	
Velocity of Propagation		70		%
Capacitance		32 [104.99]		pF/ft [pF/m]

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency		500	1000	2500	5000	
PE3W17216	Custom Lengths Available	Insertion Loss (Typ.)	0.147	0.238	0.397	0.361	0.579	dB/ft	
			0.49	0.79	1.31	1.19	1.9	dB/m	
PE3W17216-6	6 In	Insertion Loss (Typ.)	0.28	0.32	0.4	0.39	0.49	dB	0.079
PE3W17216-12	12 In	Insertion Loss (Typ.)	0.35	0.44	0.6	0.57	0.78	dB	0.1
PE3W17216-24	24 In	Insertion Loss (Typ.)	0.5	0.68	1	0.93	1.36	dB	0.142
PE3W17216-36	36 In	Insertion Loss (Typ.)	0.65	0.92	1.4	1.29	1.94	dB	0.184
PE3W17216-72	72 In	Insertion Loss (Typ.)	1.09	1.63	2.59	2.37	3.68	dB	0.31

The insertion loss data for the base model does not include loss due to the connectors. Each length includes insertion loss due to the connectors.

Loss due to Connector 1:	0.1 dB
Loss due to Connector 2:	0.1 dB
Base Weight:	0.1 pounds
Additional Weight per Inch:	0.0035 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.1 lbs [45.36 g]

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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Connectors

Description	Connector 1	Connector 2
Type	TNC Female	SMA Male
Specification		MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	30 µin minimum	50 µin minimum
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating	Brass, Nickel	
Outer Conductor Plating Specification	100 µin minimum	
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	100 µin minimum	100 µin minimum
Coupling Nut Material and Plating		Brass, Nickel
Coupling Nut Plating Specification		100 µin minimum
Hex Size		16-May inch
Torque		3 in-lbs 0.34 Nm

Environmental Specifications

Operating Range Temperature -55 to +165 deg C

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

Plotted and Other Data

Notes:

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PE3W17216

Typical Performance Data

How to Order

Part Number Configuration:

PE3W17216

- xx

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Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE3W17216-12 = 12 inches long cable
PE3W17216-100cm = 100 cm long cable

TNC Female to SMA Male Cable 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.

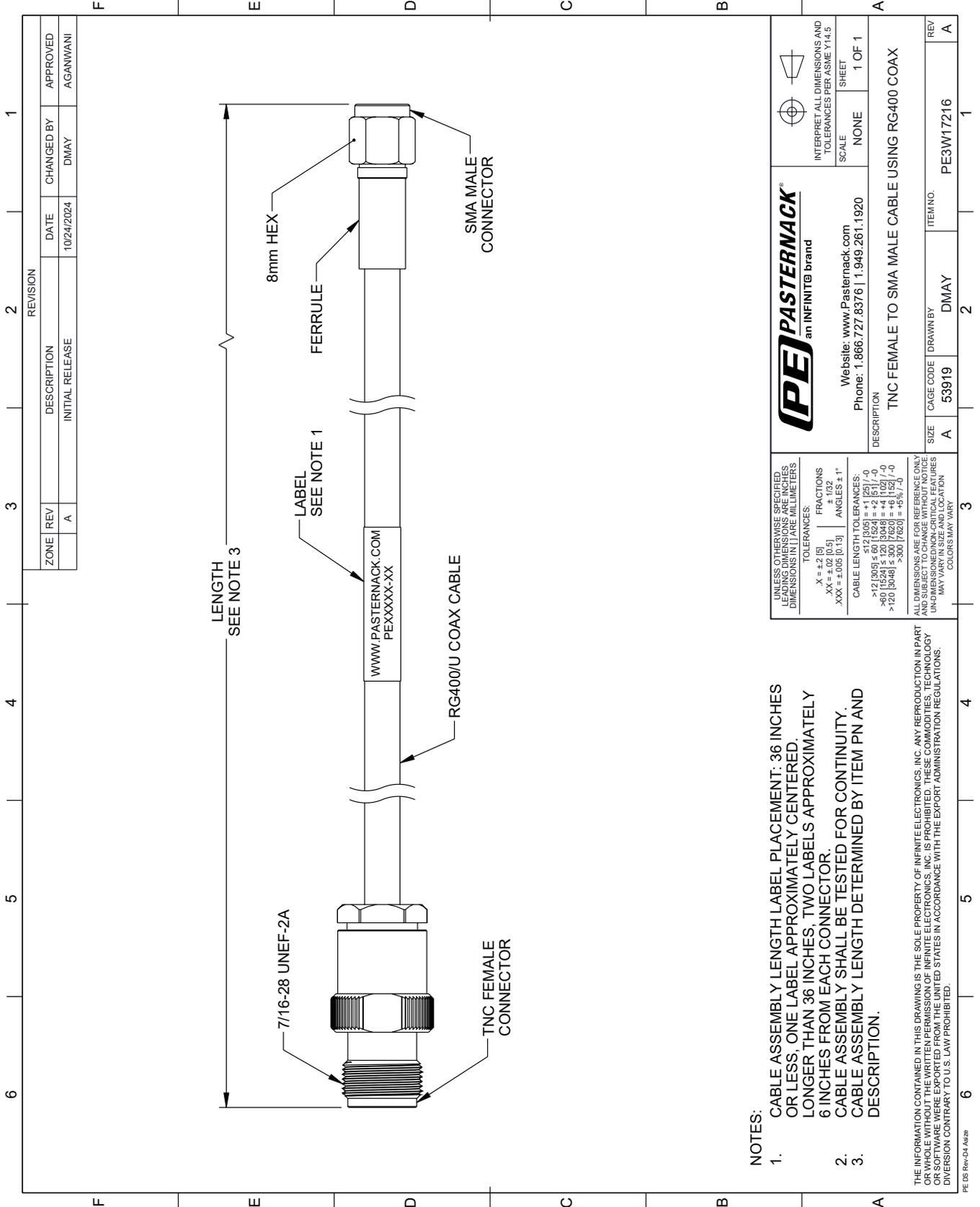
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [TNC Female to SMA Male Cable Using RG400 Coax PE3W17216](#)

URL: <https://www.pasternack.com/tnc-female-to-sma-male-cable-using-rg400-pe3w17216-p.aspx>

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PE3W17216 CAD Drawing

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- NOTES:**
- CABLE ASSEMBLY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROXIMATELY CENTERED, LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY 6 INCHES FROM EACH CONNECTOR.
 - CABLE ASSEMBLY SHALL BE TESTED FOR CONTINUITY.
 - CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.

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		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SCALE: NONE SHEET: 1 OF 1	
Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920		DESCRIPTION: TNC FEMALE TO SMA MALE CABLE USING RG400 COAX	
SIZE: A	CAGE CODE: 53919	DRAWN BY: DMAY	ITEM NO.: PE3W17216
UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES, DIMENSIONS IN [] ARE MILLIMETERS.		ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNDIMENSIONS/NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.	
TOLERANCES: .X = ±.2 [5] .XX = ±.02 [0.5] .XXX = ±.005 [0.13]		FRACTIONS: ± 1/32 ANGLES: ± 1°	
CABLE LENGTH TOLERANCES: >12 [305] ≤ 60 [1524] = ±1 [25] / -0 >60 [1524] ≤ 120 [3048] = ±4 [102] / -0 >120 [3048] ≤ 300 [7620] = ±5% / -0			

REVISION		DATE	CHANGED BY	APPROVED	
ZONE	REV	DESCRIPTION	DATE <td>CHANGED BY</td> <td>APPROVED</td>	CHANGED BY	APPROVED
	A	INITIAL RELEASE	10/24/2024	DMAY	AGANWANI