

TNC Male to SMA Female Cable Using RG174 Coax with HeatShrink



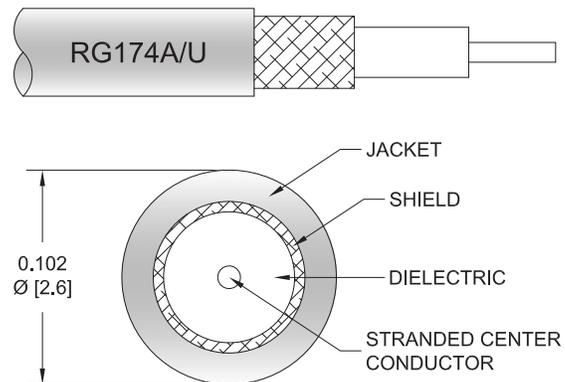
PE34720/HS

Configuration

- Connector 1: TNC Male
- Connector 2: SMA Female
- Cable Type: RG174
- Coax Flex Type: Flexible

Features

- Max Frequency 1 GHz
- 66% Phase Velocity
- PVC Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE34720/HS TNC male to SMA female cable using RG174 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 male to female gender configuration with 50 ohm flexible RG174 coax. The PE34720/HS TNC male to SMA female cable assembly operates to 1 GHz.

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		1	GHz
VSWR			1.4:1	
Velocity of Propagation		66		%
Capacitance		31.08 [101.97]		pF/ft [pF/m]

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency		50	100	250	500	
PE34720/HS	Custom Lengths Available	Insertion Loss (Typ.)	0.04	0.08	0.14	0.21	0.32	dB/ft	
			0.14	0.28	0.45	0.7	1.05	dB/m	
PE34720/HS-12	12 inch	Insertion Loss (Typ.)	0.25	0.29	0.34	0.42	0.52	dB	0.051
PE34720/HS-24	24 inch	Insertion Loss (Typ.)	0.29	0.37	0.48	0.63	0.84	dB	0.06
PE34720/HS-36	36 inch	Insertion Loss (Typ.)	0.33	0.46	0.62	0.84	1.16	dB	0.069
PE34720/HS-48	48 inch	Insertion Loss (Typ.)	0.37	0.54	0.75	1.05	1.48	dB	0.078
PE34720/HS-72	72 inch	Insertion Loss (Typ.)	0.46	0.71	1.03	1.47	2.12	dB	0.096

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: 0.051 pounds
 Additional Weight per Inch: 0.00075 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter 0.5 in [12.7 mm]
 Weight 0.042 lbs [19.05 g]

Cable

Cable Type RG174
 Impedance 50 Ohms
 Inner Conductor Type Stranded
 Inner Conductor Material and Plating Copper Clad Steel
 Dielectric Type PE
 Number of Shields 1
 Shield Layer 1 Tinned Copper Braid
 Jacket Material PVC, Black
 Jacket Diameter 0.11 in [2.79 mm]

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Connectors

Description	Connector 1	Connector 2
Type	TNC Male	SMA Female
Specification		MIL-STD-348
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Mating Cycles		100
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gold
Contact Plating Specification	30 µin minimum	
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating		Brass, Nickel
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	100 µin minimum	
Coupling Nut Material and Plating	Brass, Nickel	
Coupling Nut Plating Specification	100 µin minimum	

Environmental Specifications

Operating Range Temperature -40 to +80 deg C

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

Plotted and Other Data

Notes:

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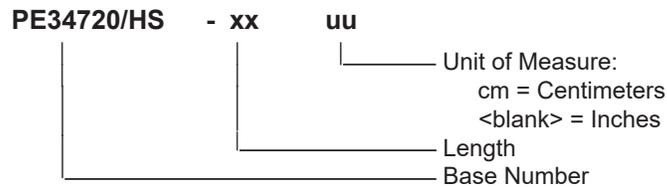


PE34720/HS

Typical Performance Data

How to Order

Part Number Configuration:



Example: PE34720/HS-12 = 12 inches long cable
PE34720/HS-100cm = 100 cm long cable

TNC Male to SMA Female Cable Using RG174 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.

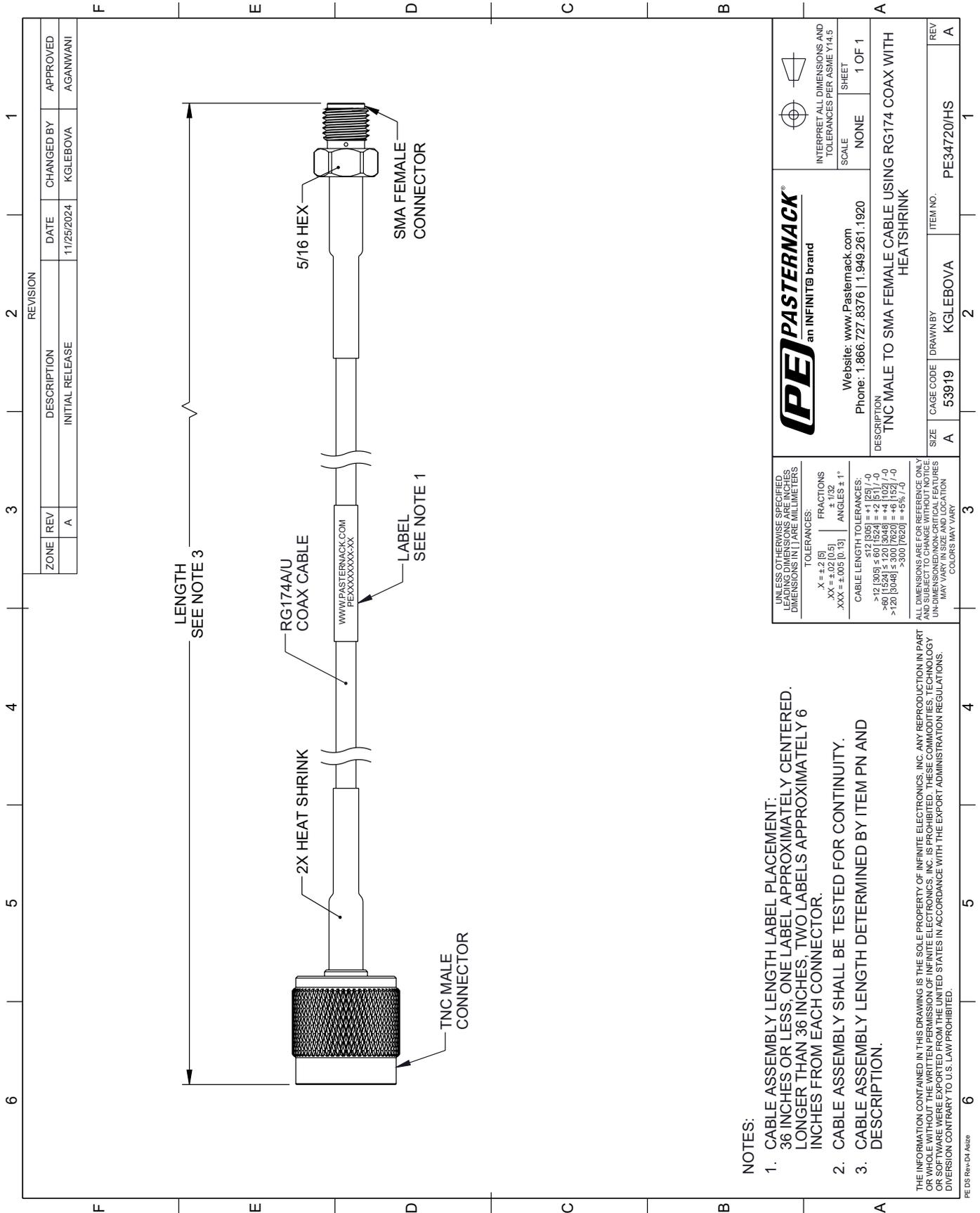
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [TNC Male to SMA Female Cable Using RG174 Coax with HeatShrink PE34720/HS](#)

URL: <https://www.pasternack.com/tnc-male-to-sma-female-cable-using-rg174-with-heatshrink-pe34720-hs-p.aspx>

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PE34720/HS CAD Drawing

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NOTES:

1. 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.
2. CABLE ASSEMBLY SHALL BE TESTED FOR CONTINUITY.
3. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.

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