

TNC Female 4 Hole Flange to Reverse Polarity SMA Plug Cable Using RG316-DS Coax



RF Cable Assemblies Technical Data Sheet

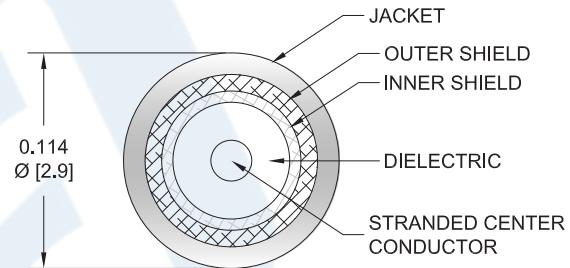
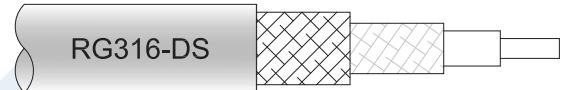
PE3W09723

Configuration

- Connector 1: TNC Female 4 Hole Flange
- Connector 2: SMA Plug Reverse Polarity
- Cable Type: RG316-DS

Features

- Max Frequency 2 GHz
- Shielding Effectivity > 85 dB
- 69.5% Phase Velocity
- Double Shielded
- FEP Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W09723 TNC female 4 hole flange to reverse polarity SMA plug cable using RG316-DS 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 reverse polarity SMA cable assembly has a female to plug gender configuration with 50 ohm flexible RG316-DS coax. The PE3W09723 TNC female to reverse polarity SMA plug cable assembly operates to 2 GHz. Our RF cable assembly with TNC 4 hole flange 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 of better than 85 dB.

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: [TNC Female 4 Hole Flange to Reverse Polarity SMA Plug Cable Using RG316-DS Coax PE3W09723](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		2	GHz
Velocity of Propagation		69.5		%
RF Shielding	85			dB
Capacitance		28.96 [95.01]		pF/ft [pF/m]
DC Resistance Inner Conductor		83.82 [275]		Ω/1000ft [Ω/Km]
DC Resistance Outer Conductor		5.33 [17.49]		Ω/1000ft [Ω/Km]

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.05	0.1	0.25	0.5	2	GHz
Insertion Loss (Typ.)	0.066	0.082	0.128	0.194	0.394	dB/ft
	0.22	0.27	0.42	0.64	1.29	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB per connector.

Mechanical Specifications

Cable Assembly

Weight 0.064 lbs [29.03 g]

Cable

Cable Type RG316-DS
Impedance 50 Ohms
Inner Conductor Type Stranded
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 0.114 in [2.9 mm]

One Time Minimum Bend Radius 0.59 in [14.99 mm]

Repeated Minimum Bend Radius 1.57 in [39.88 mm]

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Connectors

Description	Connector 1	Connector 2
Type	TNC Female 4 Hole Flange	SMA Plug Reverse Polarity
Specification	MIL-STD-348	
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Beryllium Copper, Gold	Gold
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating	Brass, Nickel	
Body Material and Plating	Brass, Nickel	Brass, Nickel
Coupling Nut Material and Plating		Brass, Nickel
Hex Size		5/16 in
Torque		5 in-lbs [0.57 Nm]

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

Plotted and Other Data

Notes:

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SMA Plug Cable Using RG316-DS Coax



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PE3W09723

How to Order

Part Number Configuration:

PE3W09723

- **xx**

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

Example: PE3W09723-12 = 12 inches long cable
PE3W09723-100cm = 100 cm long cable

TNC Female 4 Hole Flange to Reverse Polarity SMA Plug Cable Using RG316-DS 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.

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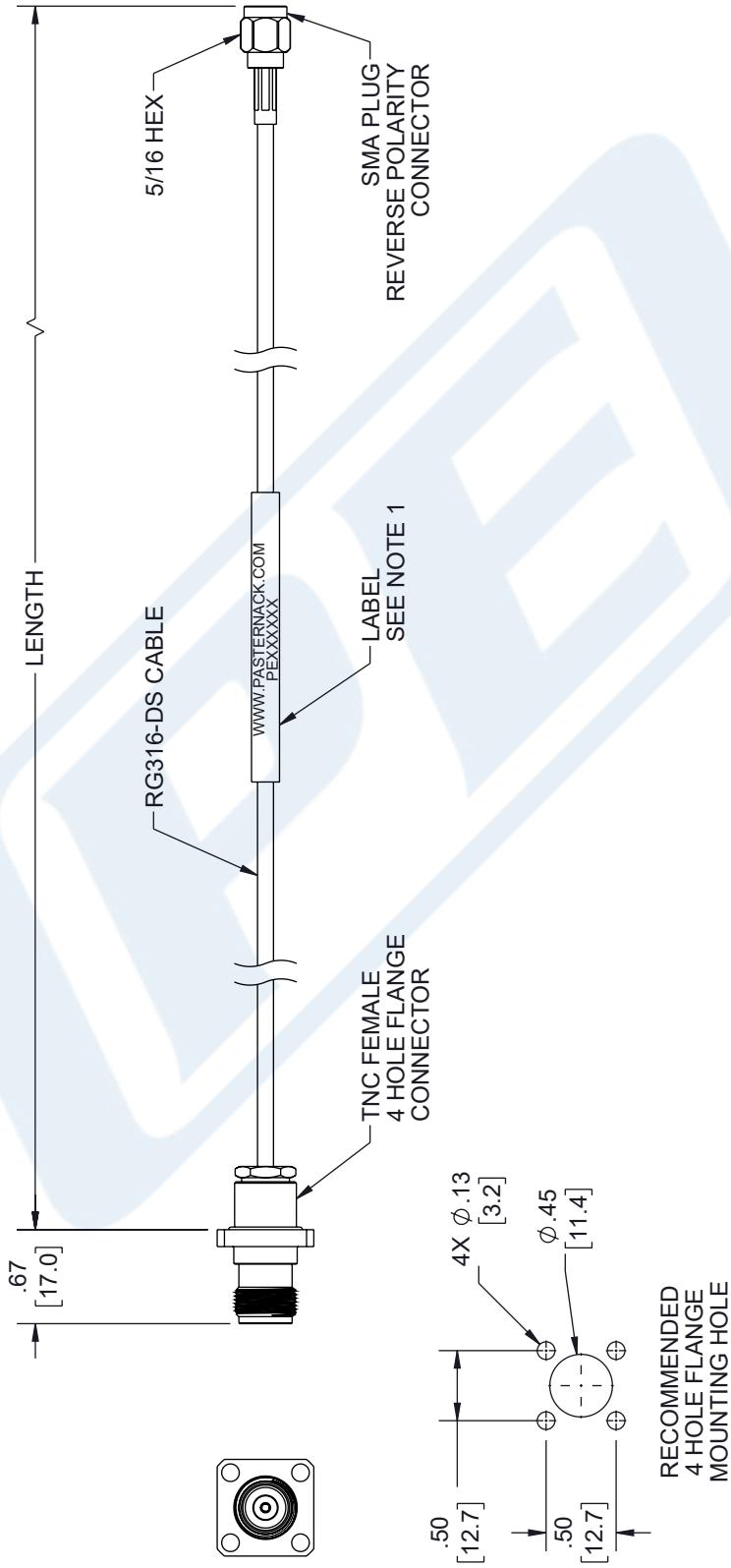
URL: <https://www.pasternack.com/tnc-female-4-hole-flange-to-reverse-polarity-sma-plugin-cable-using-rg316-ds-pe3w09723-p.aspx>

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PE3W09723 CAD Drawing

TNC Female 4 Hole Flange to Reverse Polarity SMA Plug Cable Using RG316-DS Coax

ZONE	REV.	DESCRIPTION	DATE	CHANGED BY	APPROVED BY
A		INITIAL RELEASE	01/03/2023	HBAKKE	AGANWAN



NOTES: 1. CA 15

LESS, ONE LABEL APPROXIMATELY CENTERED LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY 6 INCHES FROM EACH CONNECTOR.
CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.

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<small>TOLERANCES:</small>		<small>SCALE SHEET</small>		<small>1 OF 1</small>										
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