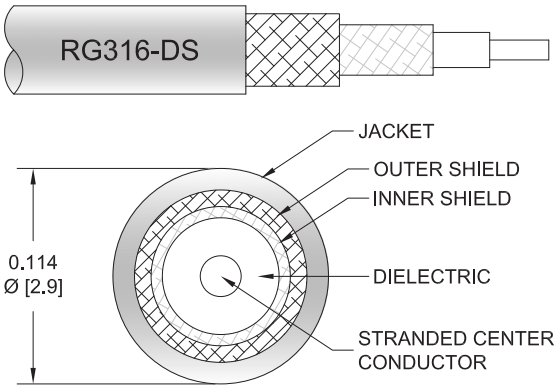
TNC Male to TNC Female Bulkhead Cable Using RG316-DS Coax

PE3W05213

Configuration

- Connector 1: TNC Male
- Connector 2: TNC Female Bulkhead
- Cable Type: RG316-DS
- Coax Flex Type: Flexible



Features

- Max Frequency 1 GHz
- 70% Phase Velocity
- Double Shielded
- FEP Jacket

Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W05213 TNC male to TNC female bulkhead 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 TNC cable assembly has a male to female gender configuration with 50 ohm flexible RG316-DS coax. The PE3W05213 TNC male to TNC female cable assembly operates to 1 GHz. Our RF cable assembly with TNC bulkhead 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.

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		1,000	MHz
VSWR		1.4:1		
Velocity of Propagation		70		%
Capacitance		28.96 [95.01]		pF/ft [pF/m]
Operating Voltage (AC)			500	Vrms

Specifications by Frequency

© 2023 Infinite Electronics, Inc. Pasternack is a registered trademark of Infinite Electronics, Inc.

TNC Male to TNC Female Bulkhead Cable Using RG316-DS Coax

PE3W05213

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	100	250	400	500	1000	MHz	
PE3W05213	Custom Lengths Available	Insertion Loss (Typ.)	0.08	0.13	0.175	0.194	0.29	dB/ft	
			0.27	0.42	0.58	0.64	0.96	dB/m	
PE3W05213-6	6 inch	Insertion Loss (Typ.)	0.25	0.27	0.29	0.3	0.35	dB	0.075
PE3W05213-12	12 inch	Insertion Loss (Typ.)	0.29	0.33	0.38	0.4	0.49	dB	0.082
PE3W05213-24	24 inch	Insertion Loss (Typ.)	0.37	0.46	0.55	0.59	0.78	dB	0.097
PE3W05213-36	36 inch	Insertion Loss (Typ.)	0.45	0.59	0.73	0.79	1.07	dB	0.111
PE3W05213-48	48 inch	Insertion Loss (Typ.)	0.53	0.72	0.9	0.98	1.36	dB	0.125

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:	0.082	pounds
Additional Weight per Inch:	0.00117	pounds

Mechanical Specifications

Cable Assembly

Weight	0.082 lbs [37.19 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]

© 2023 Infinite Electronics, Inc. Pasternack is a registered trademark of Infinite Electronics, Inc.

TNC Male to TNC Female Bulkhead Cable Using RG316-DS Coax

PE3W05213

Connectors

Description	Connector 1	Connector 2
Type	TNC Male	TNC Female Bulkhead
Specification	MIL-STD-348A	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	30 µin minimum
Dielectric Type	Teflon	Teflon
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	100 µin minimum	100 µin minimum

Environmental Specifications

Operating Range Temperature	-55 to +165 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

© 2023 Infinite Electronics, Inc. Pasternack is a registered trademark of Infinite Electronics, Inc.

TNC Male to TNC Female Bulkhead Cable Using RG316-DS Coax

PE3W05213

Typical Performance Data

How to Order

Part Number Configuration: **PE3W05213 - xx uu**

- uu — Unit of Measure:
  - cm = Centimeters
  - <blank> = Inches
- xx — Length
- PE3W05213 — Base Number

Example: PE3W05213-12 = 12 inches long cable
PE3W05213-100cm = 100 cm long cable

TNC Male to TNC Female Bulkhead 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.

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 TNC Female Bulkhead Cable Using RG316-DS Coax PE3W05213

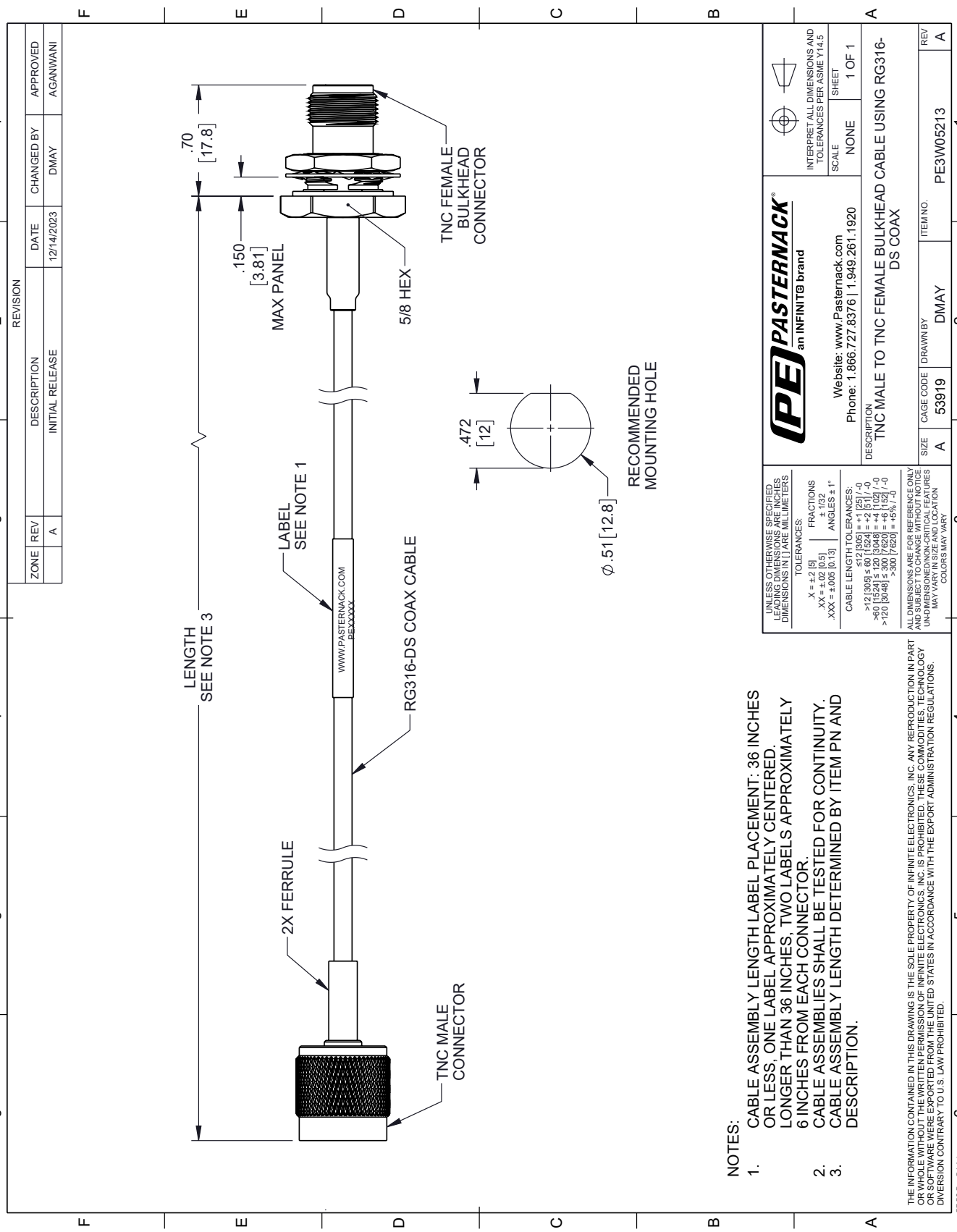
URL: https://www.pasternack.com/tnc-male-to-tnc-female-bulkhead-cable-using-rg316-ds-pe3w05213-p.aspx

The information contained within 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 impliment improvements. Pasternack Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

© 2023 Infinite Electronics, Inc. Pasternack is a registered trademark of Infinite Electronics, Inc.

PE3W05213 CAD Drawing

TNC Male to TNC Female Bulkhead Cable Using RG316-DS Coax



© 2023 Infinite Electronics, Inc. Pasternack is a registered trademark of Infinite Electronics, Inc.