75 Ohm TNC Male to 75 Ohm BNC Male Cable Using 75 Ohm RG179 Coax



PE3W14358

Configuration

- Connector 1: TNC Male
- Connector 2: BNC Male
- Cable Type: RG179
- Coax Flex Type: Flexible

Features

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

Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W14358 75 ohm TNC male to 75 ohm BNC male cable using 75 ohm RG179 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 BNC cable assembly has a male to male gender configuration with 75 ohm flexible RG179 coax. The PE3W14358 TNC male to BNC male 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			1.5:1	
Velocity of Propagation		70		%
Capacitance		19.4 [63.65]		pF/ft [pF/m]
Operating Voltage (AC)			500	Vrms

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	Units	Weight (lbs)
		Frequency	100	250	500	1000	MHz	
PE3W14358	Custom Lengths Available	Insertion Loss (Typ.)	0.09	0.14	0.184	0.203	dB/ft	
			0.3	0.45	0.61	0.67	dB/m	
PE3W14358-12	12 inch	Insertion Loss (Typ.)	0.37	0.41	0.46	0.48	dB	0.086
PE3W14358-24	24 inch	Insertion Loss (Typ.)	0.46	0.55	0.65	0.68	dB	0.095
PE3W14358-36	36 inch	Insertion Loss (Typ.)	0.55	0.69	0.83	0.89	dB	0.104
PE3W14358-48	48 inch	Insertion Loss (Typ.)	0.64	0.83	1.01	1.09	dB	0.113
PE3W14358-72	72 inch	Insertion Loss (Typ.)	0.82	1.1	1.38	1.5	dB	0.131

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:	0.173	dB
Base Weight:	0.086	pounds
Additional Weight per Inch:	0.00075	pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.086 lbs [39.01 g]

Cable

Cable Type	RG179
Impedance	75 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	0.1 in [2.54 mm]
Repeated Minimum Bend Radius	0.4 in [10.16 mm]

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Connectors

Description	Connector 1	Connector 2
Type	TNC Male	BNC Male
Impedance	75 Ohms	75 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	50 µin minimum	30 µin minimum
Dielectric Type		PTFE
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	200 µin minimum	100 µin minimum
Coupling Nut Material and Plating	Brass, Nickel	Brass, Nickel
Coupling Nut Plating Specification	200 µin minimum	100 µin minimum

Environmental Specifications

Operating Range Temperature	-55 to +125 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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PE3W14358

Typical Performance Data

How to Order

Part Number Configuration: **PE3W14358 - xx uu**

- uu — Unit of Measure:
  - cm = Centimeters
  - <blank> = Inches
- xx — Length
- PE3W14358 — Base Number

Example: PE3W14358-12 = 12 inches long cable
PE3W14358-100cm = 100 cm long cable

75 Ohm TNC Male to 75 Ohm BNC Male Cable Using 75 Ohm RG179 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: 75 Ohm TNC Male to 75 Ohm BNC Male Cable Using 75 Ohm RG179 Coax PE3W14358

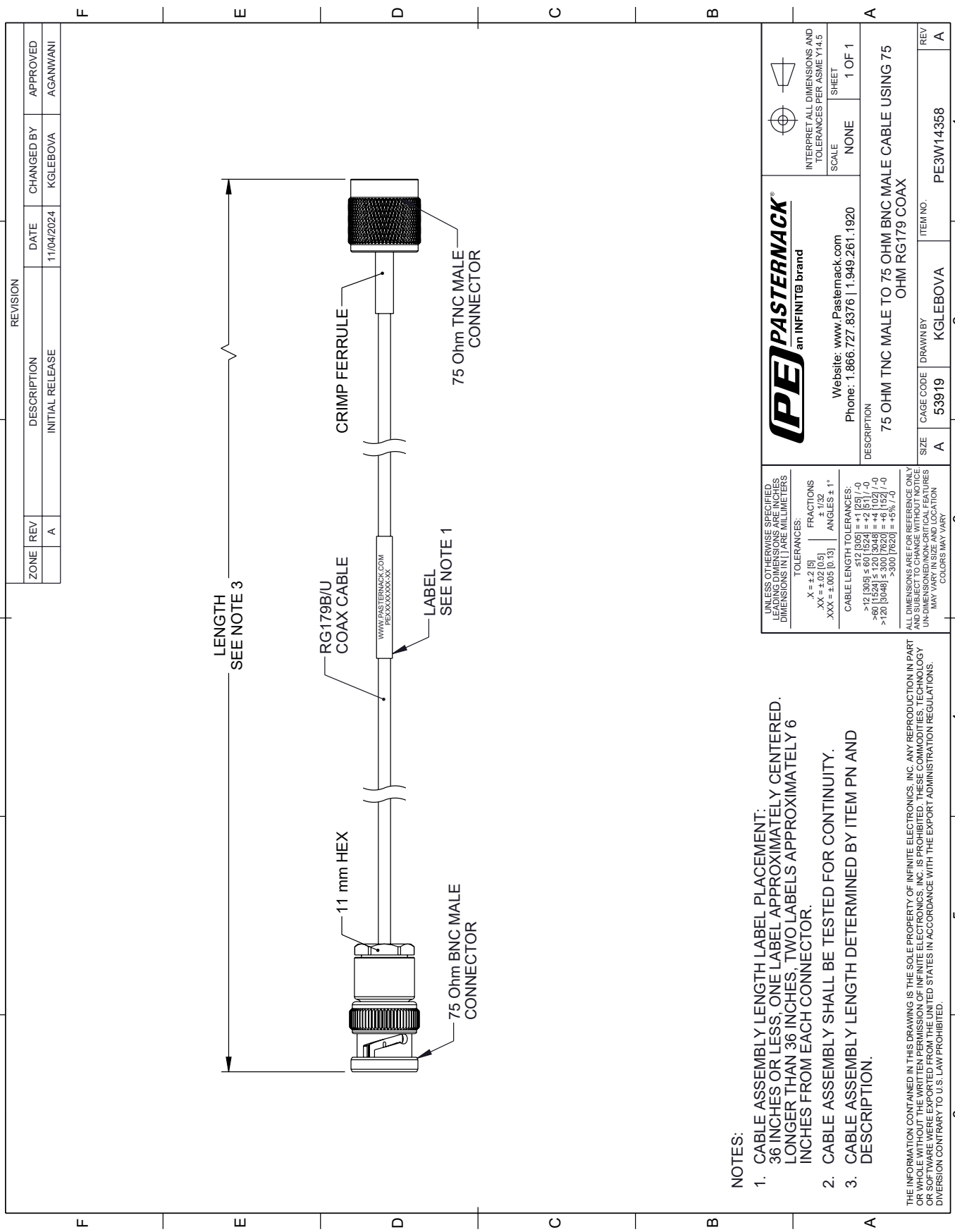
URL: https://www.pasternack.com/75-ohm-tnc-male-to-75-ohm-bnc-male-cable-using-rg179-pe3w14358-p.aspx

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PE3W14358 CAD Drawing

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