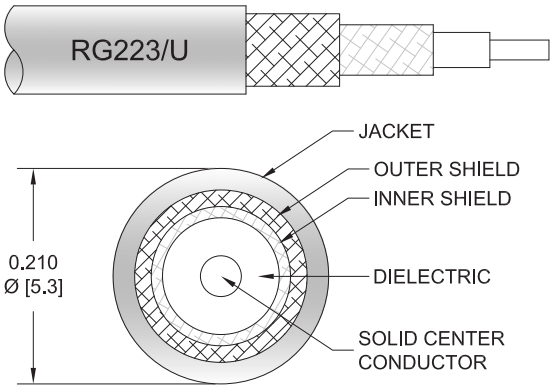
TNC Male to TNC Female Cable Using RG223 Coax

PE3W06231

Configuration

- Connector 1: TNC Male
- Connector 2: TNC Female
- Cable Type: RG223
- Coax Flex Type: Flexible



Features

- Max Frequency 6 GHz
- 66% Phase Velocity
- Double Shielded
- PVC Jacket

Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W06231 TNC male to TNC female cable using RG223 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 RG223 coax. The PE3W06231 TNC male to TNC female cable assembly operates to 6 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		6	GHz
VSWR			1.4:1	
Velocity of Propagation		66		%
Capacitance		30.8 [101.05]		pF/ft [pF/m]

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	Units	Weight (lbs)
		Frequency	500	1000	2500	6000	MHz	
PE3W06231	Custom Lengths Available	Insertion Loss (Typ.)	0.086	0.134	0.219	0.369	dB/ft	
			0.29	0.44	0.72	1.22	dB/m	
PE3W06231-12	12 In	Insertion Loss (Typ.)	0.29	0.34	0.42	0.57	dB	0.107
PE3W06231-24	24 In	Insertion Loss (Typ.)	0.38	0.47	0.64	0.94	dB	0.138
PE3W06231-36	36 In	Insertion Loss (Typ.)	0.46	0.61	0.86	1.31	dB	0.169
PE3W06231-60	60 In	Insertion Loss (Typ.)	0.63	0.87	1.3	2.05	dB	0.231
PE3W06231-72	72 In	Insertion Loss (Typ.)	0.72	1.01	1.52	2.42	dB	0.262

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:	0.107	pounds
Additional Weight per Inch:	0.00258	pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.115 lbs [52.16 g]

Cable

Cable Type	RG223
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper, Silver
Dielectric Type	PE
Number of Shields	2
Shield Layer 1	Silver Plated Copper Braid
Shield Layer 2	Silver Plated Copper Braid
Jacket Material	PVC, Black
Jacket Diameter	0.209 in [5.31 mm]
Repeated Minimum Bend Radius	1 in [25.4 mm]

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Connectors

Description	Connector 1	Connector 2
Type	TNC Male	TNC Female
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	30 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	

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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Typical Performance Data

How to Order

Part Number Configuration: **PE3W06231 - xx uu**

- uu — Unit of Measure:
  - cm = Centimeters
  - <blank> = Inches
- xx — Length
- PE3W06231 — Base Number

Example: PE3W06231-12 = 12 inches long cable
PE3W06231-100cm = 100 cm long cable

TNC Male to TNC Female Cable Using RG223 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 Cable Using RG223 Coax PE3W06231

URL: https://www.pasternack.com/tnc-male-to-tnc-female-cable-using-rg223-pe3w06231-p.aspx

PE3W06231 CAD Drawing

TNC Male to TNC Female Cable Using RG223 Coax