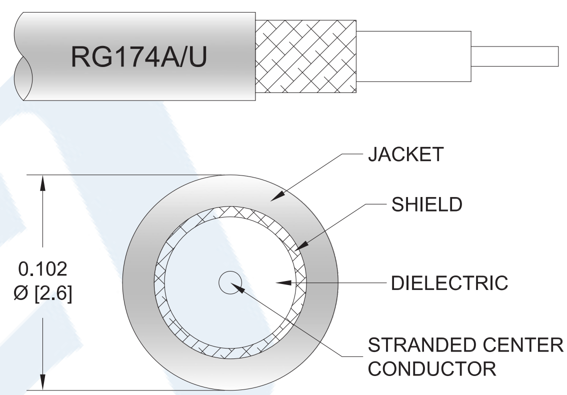
TNC Male to TNC Male Flexible Cable 24 Inch Length Using RG174 Coax with HeatShrink

RF Cable Assemblies Technical Data Sheet PE3C7891-24

Configuration

- Connector 1: TNC Male
- Connector 2: TNC Male
- Cable Type: RG174



Features

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

Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C7891-24 TNC male to TNC male 24 inch 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 TNC cable assembly has a male to male gender configuration with 50 ohm flexible RG174 coax. The PE3C7891-24 TNC male to TNC 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.

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 Male Flexible Cable 24 Inch Length Using RG174 Coax with HeatShrink PE3C7891-24

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
Phone: (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451
Sales@Pasternack.com • Techsupport@Pasternack.com

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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		1,000	MHz
VSWR			1.4:1	
Velocity of Propagation		66		%
Capacitance		31.08 [101.97]		pF/ft [pF/m]
Dielectric Withstanding Voltage (DC)			1,000	Vdc
Input Power (Average)			17	Watts

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	50	100	250	500	1,000	MHz
Insertion Loss (Typ.)	0.14	0.24	0.38	0.57	0.84	dB

Electrical Specification Notes:
The Insertion Loss data above is based on the performance specifications of the coax and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1*SQRT(FGHz) dB per connector loss.

Mechanical Specifications

Cable Assembly

Length*	24 in [609.6 mm]
Diameter	0.6 in [15.24 mm]

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	TNC Male
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Contact Plating Specification	15 µin	15 µin
Dielectric Type	Teflon	Teflon
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	100 µin	100 µin
Coupling Nut Material and Plating	Brass, Nickel	Brass, Nickel
Coupling Nut Plating Specification	100 µin	100 µin

Environmental Specifications

Temperature

Operating Range -40 to +80 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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How to Order

Part Number Configuration: **PE3C7891 - xx uu**

- uu — Unit of Measure:
  - cm = Centimeters
  - <blank> = Inches
- xx — Length
- PE3C7891 — Base Number

Example: PE3C7891-12 = 12 inches long cable
PE3C7891-100cm = 100 cm long cable

TNC Male to TNC Male Flexible Cable 24 Inch Length 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 TNC Male Flexible Cable 24 Inch Length Using RG174 Coax with HeatShrink PE3C7891-24

URL: https://www.pasternack.com/tnc-male-tnc-male-rg174au-cable-assembly-pe3c7891-24-p.aspx

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PE3C7891-24 CAD Drawing

TNC Male to TNC Male Flexible Cable 24 Inch Length Using RG174 Coax with HeatShrink