

SMA Male to TNC Male Cable Using RG303 Coax



PE3C2728

Configuration

- Connector 1: SMA Male
- Connector 2: TNC Male
- Cable Type: RG303
- Coax Flex Type: Flexible

Features

- Max Frequency 3 GHz
- FEP Jacket

Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C2728 SMA male to TNC male cable using RG303 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 SMA to TNC cable assembly has a male to male gender configuration with 50 ohm flexible RG303 coax. The PE3C2728 SMA male to TNC male cable assembly operates to 3 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		3	GHz
VSWR			1.4:1	
Capacitance		32 [104.99]		pF/ft [pF/m]
Dielectric Withstanding Voltage (AC)			1,000	Vrms

Specifications by Frequency

SMA Male to TNC Male Cable Using RG303 Coax



PE3C2728

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency		100	250	500	1000	
PE3C2728	Custom Lengths Available	Insertion Loss (Typ.)	0.02	0.05	0.11	0.22	0.645	dB/ft	
			0.08	0.18	0.36	0.71	2.12	dB/m	
PE3C2728-12	12 inch	Insertion Loss (Typ.)	0.23	0.26	0.31	0.42	0.85	dB	0.076
PE3C2728-24	24 inch	Insertion Loss (Typ.)	0.25	0.31	0.42	0.63	1.49	dB	0.103
PE3C2728-36	36 inch	Insertion Loss (Typ.)	0.27	0.37	0.53	0.85	2.14	dB	0.13
PE3C2728-48	48 inch	Insertion Loss (Typ.)	0.29	0.42	0.63	1.06	2.78	dB	0.157
PE3C2728-60	60 inch	Insertion Loss (Typ.)	0.31	0.47	0.74	1.28	3.43	dB	0.184

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:	0.076 pounds
Additional Weight per Inch:	0.00225 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.076 lbs [34.47 g]

Cable

Cable Type	RG303
Impedance	50 Ohms
Inner Conductor Type	Solid
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	0.17 in [4.32 mm]

SMA Male to TNC Male Cable Using RG303 Coax



PE3C2728

Connectors

Description	Connector 1	Connector 2
Type	SMA Male	TNC Male
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	50μ in. minimum	30μ in. minimum
Dielectric Type	Teflon	Teflon
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	100μ in. minimum	100μ in. minimum
Coupling Nut Material and Plating	Brass, Nickel	
Coupling Nut Plating Specification	100μ in. minimum	
Hex Size	16-May in	
Torque	5 in-lbs 0.57 Nm	

Environmental Specifications

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

Plotted and Other Data

Notes:

SMA Male to TNC Male Cable Using RG303 Coax



PE3C2728

Typical Performance Data

How to Order

Part Number Configuration:

PE3C2728

- **xx**

uu

Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE3C2728-12 = 12 inches long cable
PE3C2728-100cm = 100 cm long cable

SMA Male to TNC Male Cable Using RG303 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: [SMA Male to TNC Male Cable Using RG303 Coax PE3C2728](#)

URL: <https://www.pasternack.com/sma-male-to-tnc-male-cable-using-rg303-pe3c2728-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 implement 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.

PE3C2728 CAD Drawing

SMA Male to TNC Male Cable Using RG303 Coax

