



SMA Male Right Angle to TNC Male Cable
50 cm Length Using RG142 Coax

RF Cable Assemblies Technical Data Sheet

PE3W06829-50CM

Configuration

- Connector 1: SMA Male Right Angle
- Connector 2: TNC Male
- Cable Type: RG142

Features

- Max Frequency 5 GHz
- Double Shielded
- FEP Jacket

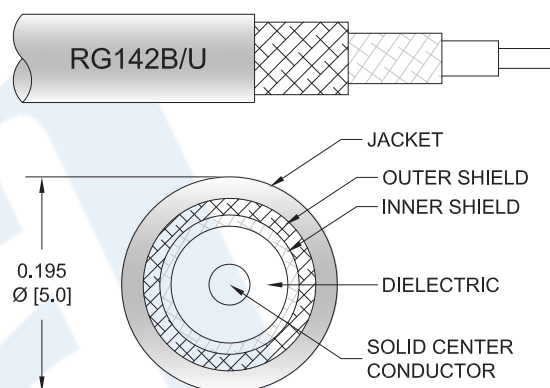
Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W06829-50CM SMA male right angle to TNC male 50 cm cable using RG142 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 RG142 coax. The PE3W06829-50CM SMA male to TNC male cable assembly operates to 5 GHz. The right angle SMA interface on the RG142 cable allows for easier connections in tight spaces. 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.



Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male Right Angle to TNC Male Cable 50 cm Length Using RG142 Coax PE3W06829-50CM](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		5	GHz
VSWR			1.5:1	

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	5	GHz
Insertion Loss (Max.)	0.4	0.4	0.5	0.6	0.9	dB

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax use in this assembly. The Insertion Loss includes an estimated insertion loss of 0.3dB of connector Loss

Mechanical Specifications

Cable Assembly

Length* 19.68 in [499.87 mm]

Cable

Cable Type RG142
 Impedance 50 Ohms
 Inner Conductor Type Solid
 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 0.195 in [4.95 mm]
 Repeated Minimum Bend Radius 1 in [25.4 mm]

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Connectors

Description	Connector 1	Connector 2
Type	SMA Male Right Angle	TNC Male
Specification		MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Contact Material and Plating		Brass, Gold
Dielectric Type		PTFE
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification		100 µin minimum
Coupling Nut Material and Plating		Brass, Nickel
Coupling Nut Plating Specification		100 µin minimum

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

Plotted and Other Data

Notes:

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How to Order

Part Number Configuration:

PE3W06829

- **xx**

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Unit of Measure:
cm = Centimeters
<blank> = Inches
Length
Base Number

Example: PE3W06829-12 = 12 inches long cable
PE3W06829-100cm = 100 cm long cable

SMA Male Right Angle to TNC Male Cable 50 cm Length Using RG142 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 Right Angle to TNC Male Cable 50 cm Length Using RG142 Coax PE3W06829-50CM](#)

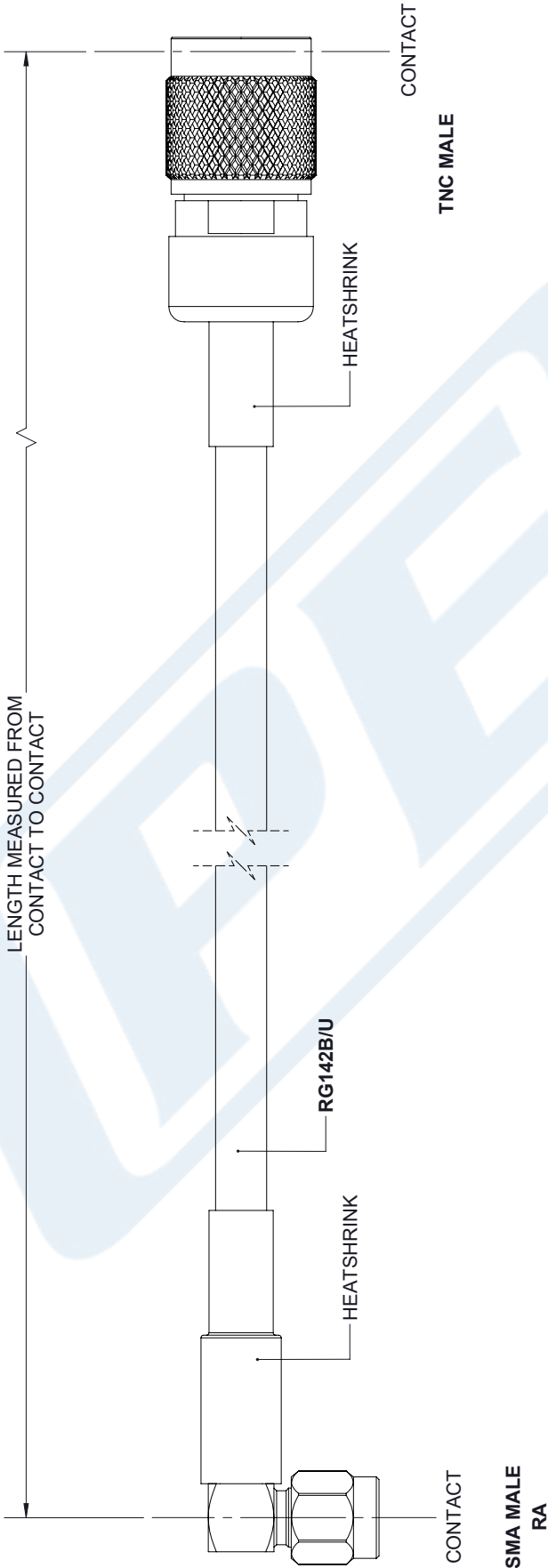
URL: <https://www.pasternack.com/sma-male-tnc-male-rg142bu-cable-assembly-pe3w06829-50cm-p.aspx>

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

PE3W06829-50CM CAD Drawing

SMA Male Right Angle to TNC Male Cable 50 cm Length Using RG142 Coax

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	04/23/19	S.ELLIS
B	PCR	11/5/2021	S.RAUTUS



UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS	
TOLERANCES:	FRACTIONS
X±.2 [5.08]	±.132
.XX±.01 [.25]	±.132
.XXX±.005 [.13]	±.132
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.	
THIRD-ANGLE PROJECTION	

PE PASTERNAK an INFINITI brand	
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SIZE	DRAWN BY
A	53919
CAGE	PART NUMBER
	PE3W06829
REV	REV
	B

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SCALE	N/A

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