



TNC Female to SMA Male Cable 50 cm  
Length Using 53 Ohm RG55 Coax

RF Cable Assemblies Technical Data Sheet

PE3W07646-50CM

### Configuration

- Connector 1: TNC Female
- Connector 2: SMA Male
- Cable Type: RG55

### Features

- Double Shielded
- PE Jacket

### Applications

- General Purpose
- Laboratory Use

### Description

Pasternack's PE3W07646-50CM TNC female to SMA male 50 cm cable using 53 ohm RG55 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 SMA cable assembly has a female to male gender configuration with 53 ohm flexible RG55 coax. 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.

### Mechanical Specifications

#### Cable Assembly

Length*	19.68 in [499.87 mm]
Diameter	0.57 in [14.48 mm]

#### Cable

Cable Type	RG55
Impedance	53 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper, Silver
Dielectric Type	PE
Number of Shields	2
Shield Layer 1	Tinned Copper Braid
Shield Layer 2	Tinned Copper Braid
Jacket Material	PE, Black
Jacket Diameter	0.202 in [5.13 mm]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [TNC Female to SMA Male Cable 50 cm Length Using 53 Ohm RG55 Coax PE3W07646-50CM](#)



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**Connectors**

Description	Connector 1	Connector 2
Type	TNC Female	SMA Male
Specification		MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification		50 µin minimum
Dielectric Type	PTFE	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
Hex Size		5/16 inch
Torque		3 in-lbs [0.34 Nm]

Mechanical Specification Notes:

\*All cable assemblies have a length tolerance of 1.5% or  $\pm 3/8"$ , whichever is greater.

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

**Plotted and Other Data**

Notes:

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### RF Cable Assemblies Technical Data Sheet

PE3W07646-50CM

#### How to Order

Part Number Configuration:

**PE3W07646**

- **xx**

**uu**

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

Example: PE3W07646-12 = 12 inches long cable  
PE3W07646-100cm = 100 cm long cable

TNC Female to SMA Male Cable 50 cm Length Using 53 Ohm RG55 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 Female to SMA Male Cable 50 cm Length Using 53 Ohm RG55 Coax PE3W07646-50CM](#)

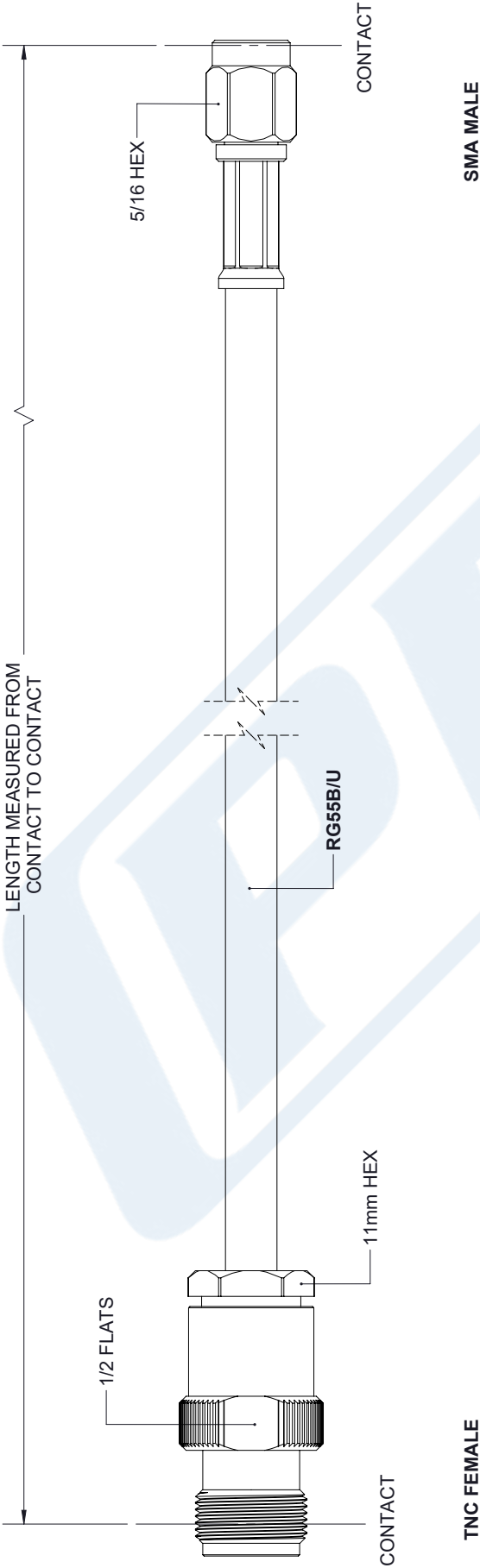
URL: <https://www.pasternack.com/tnc-female-sma-male-rg55bu-cable-assembly-pe3w07646-50cm-p.aspx>

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.

PE3W07646-50CM CAD Drawing

TNC Female to SMA Male Cable 50 cm Length Using 53 Ohm RG55 Coax

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	04/23/19	SELLIS



UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS			
TOLERANCES:			
X±.2	[5.08]	FRACTIONS	
.XX±.01	[.25]		±.132
.XXX±.005	[.13]	ANGLES ± 1°	
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.			
THIRD-ANGLE PROJECTION			

 <b>PASTERNAK</b> an INFINITO brand			
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SIZE	CAGE	DRAWN BY	PART NUMBER
A	53919	K.DANG	PE3W07646
			REV
			A

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SCALE	N/A		

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