



75 Ohm Mini SMB Plug to 75 Ohm TNC Male Cable Using 75 Ohm RG59 Coax

RF Cable Assemblies Technical Data Sheet

PE3C6086

Configuration

- Connector 1: Mini SMB Plug
- Connector 2: TNC Male
- Cable Type: RG59

Features

- Max Frequency 1 GHz
- 66% Phase Velocity
- PVC (NC) Jacket

Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C6086 75 ohm Mini SMB plug to 75 ohm TNC male cable using 75 ohm RG59 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 Mini SMB to TNC cable assembly has a plug to male gender configuration with 75 ohm flexible RG59 coax. The PE3C6086 Mini SMB plug 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.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		1,000	MHz
VSWR			1.45:1	
Velocity of Propagation		66		%
Capacitance		20.4 [66.93]		pF/ft [pF/m]

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	100	250	500	1,000		MHz
Insertion Loss (Max.)	0.13	0.18	0.26	0.42		dB/ft
	0.43	0.59	0.85	1.38		dB/m

Electrical Specification Notes:

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [75 Ohm Mini SMB Plug to 75 Ohm TNC Male Cable Using 75 Ohm RG59 Coax PE3C6086](#)



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Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB per connector.

Mechanical Specifications

Cable Assembly

Diameter 0.59 in [14.99 mm]

Cable

Cable Type RG59
 Impedance 75 Ohms
 Inner Conductor Type Solid
 Inner Conductor Material and Plating Copper Clad Steel
 Dielectric Type PE
 Number of Shields 1
 Shield Layer 1 Copper Braid
 Jacket Material PVC (NC), Black
 Jacket Diameter 0.242 in [6.15 mm]

Connectors

Description	Connector 1	Connector 2
Type	Mini SMB Plug	TNC Male
Specification	MIL-STD-348	
Impedance	75 Ohms	75 Ohms
Contact Material and Plating	Gold	Brass, Gold
Contact Plating Specification	MIL-G-45204	30µ in. minimum
Dielectric Type	PTFE	
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	QQ-N-290	100µ in. minimum
Coupling Nut Material and Plating		Brass, Nickel
Coupling Nut Plating Specification		100µ in. minimum

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

Plotted and Other Data

Notes:

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RF Cable Assemblies Technical Data Sheet

PE3C6086

How to Order

Part Number Configuration:

PE3C6086

- **xx**

uu

Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE3C6086-12 = 12 inches long cable
PE3C6086-100cm = 100 cm long cable

75 Ohm Mini SMB Plug to 75 Ohm TNC Male Cable Using 75 Ohm RG59 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.

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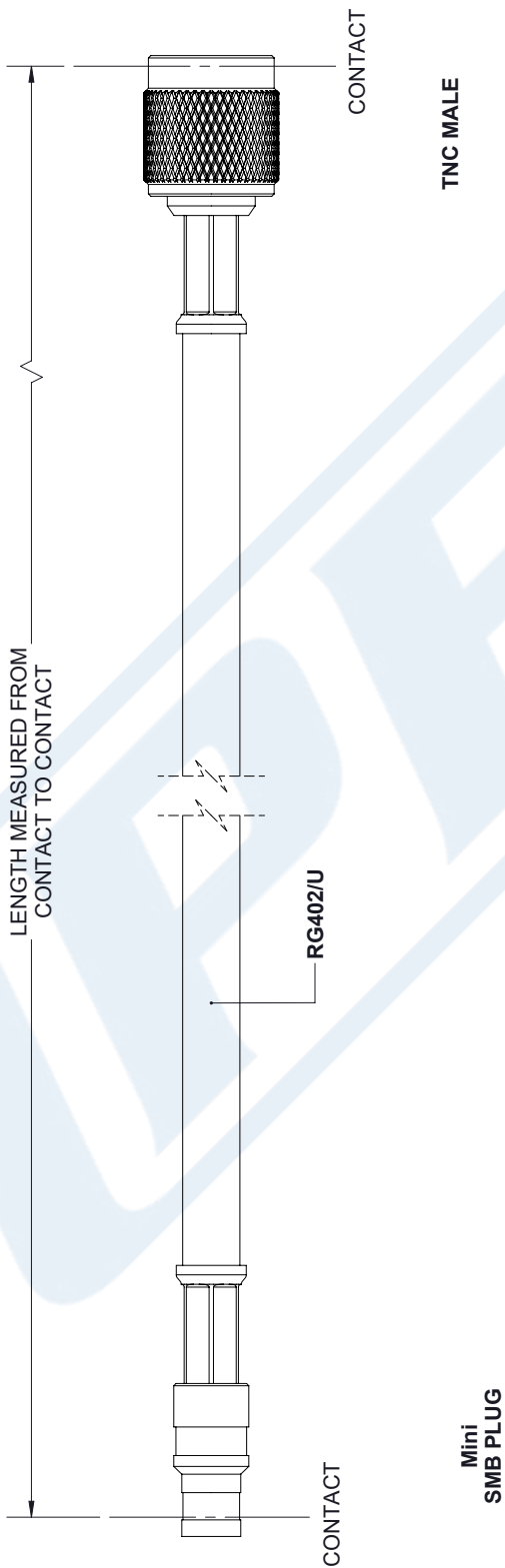
URL: <https://www.pasternack.com/mini-smb-plug-tnc-male-rg59bu-cable-assembly-pe3c6086-p.aspx>

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.

PE3C6086 CAD Drawing

75 Ohm Mini SMB Plug to 75 Ohm TNC Male Cable Using 75 Ohm RG59 Coax

REVISIONS		
REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	8/20/2020
		APPROVED
		S. ELLIS



<p>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS</p> <p>TOLERANCES:</p> <table border="0"> <tr> <td>.X = ±.2</td> <td>[.08]</td> <td>FRACTIONS</td> <td></td> </tr> <tr> <td>.XX = ±.02</td> <td>[.51]</td> <td></td> <td>± 1/32</td> </tr> <tr> <td>.XXX = ±.005</td> <td>[.13]</td> <td>ANGLES ± 1°</td> <td></td> </tr> </table> <p>CABLE LENGTH (L) TOLERANCES:</p> <table border="0"> <tr> <td>L ≤ 12</td> <td>[305]</td> <td>= +1 [25] / -0</td> </tr> <tr> <td>12 [305] < L ≤ 60</td> <td>[1524]</td> <td>= +2 [51] / -0</td> </tr> <tr> <td>60 [1524] < L ≤ 120</td> <td>[3048]</td> <td>= +4 [102] / -0</td> </tr> <tr> <td>120 [3048] < L ≤ 300</td> <td>[7620]</td> <td>= +6 [152] / -0</td> </tr> <tr> <td>300 [7620] < L ≤ ∞</td> <td></td> <td>= +5% / L / -0</td> </tr> </table> <p>ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.</p>	.X = ±.2	[.08]	FRACTIONS		.XX = ±.02	[.51]		± 1/32	.XXX = ±.005	[.13]	ANGLES ± 1°		L ≤ 12	[305]	= +1 [25] / -0	12 [305] < L ≤ 60	[1524]	= +2 [51] / -0	60 [1524] < L ≤ 120	[3048]	= +4 [102] / -0	120 [3048] < L ≤ 300	[7620]	= +6 [152] / -0	300 [7620] < L ≤ ∞		= +5% / L / -0	<p>PE PASTERNAK an INFINITO brand</p> <p>Pasternack Enterprises, Inc. P. O. Box 16759, Irvine, CA 92623. Phone: 1.949.261.1920 1.866.727.8376 Fax: 1.949.261.7451 Website: www.pasternack.com E-mail: sales@pasternack.com</p>	<p>THIRD-ANGLE PROJECTION</p> <p>THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF PASTERNAK CORPORATION. ALL RIGHTS RESERVED.</p> <p>SHEET 1 OF 1</p> <p>SCALE N/A</p>
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<p>SIZE A</p> <p>CAGE CODE A</p> <p>DRAWN BY K.DANG</p> <p>ITEM NO. PE3C6086</p> <p>REV A</p>																													

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