



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

RF Cable Assemblies Technical Data Sheet

PE3C6086-50CM

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 PE3C6086-50CM 75 ohm Mini SMB plug to 75 ohm TNC male 50 cm 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 PE3C6086-50CM 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.)	0.41	0.5	0.63	0.89		dB

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 50 cm Length Using 75 Ohm RG59 Coax PE3C6086-50CM](#)



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The Insertion Loss data above is based on the performance specifications of the coax used in this assembly. Insertion Loss is estimated as 0.1 dB per connector.

Mechanical Specifications

Cable Assembly

Length* 19.68 in [499.87 mm]
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:

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 50 cm Length Using 75 Ohm RG59 Coax PE3C6086-50CM](#)



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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 50 cm Length 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.

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 50 cm Length Using 75 Ohm RG59 Coax PE3C6086-50CM](#)

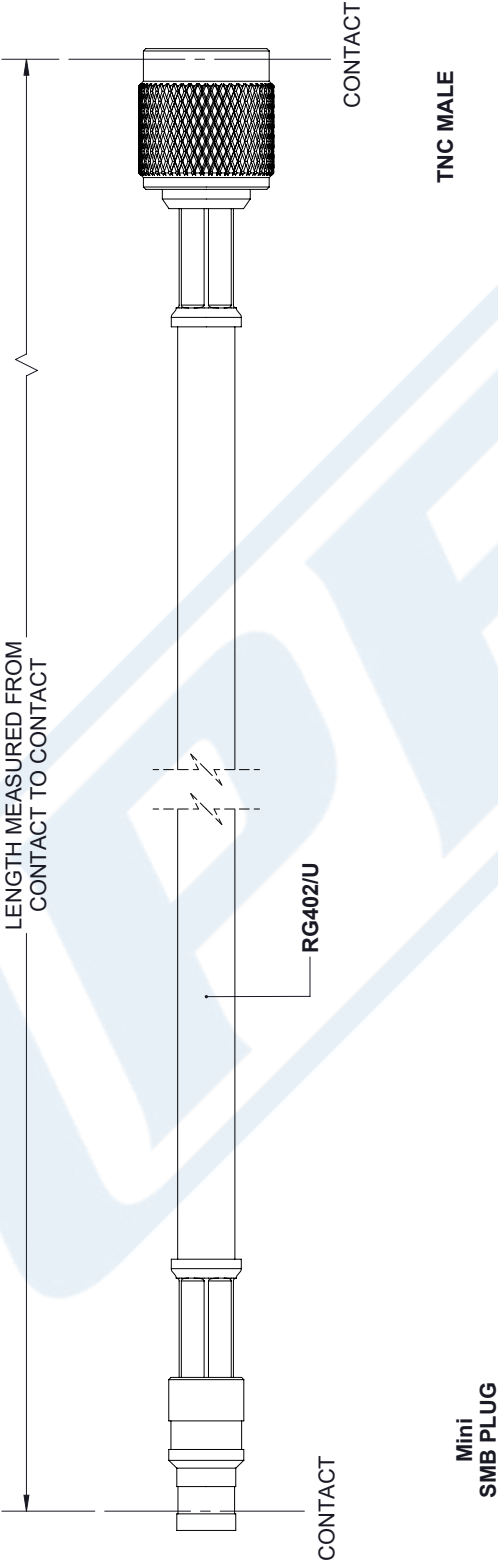
URL:

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.

PE3C6086-50CM CAD Drawing

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



UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS	
TOLERANCES:	
.X = ± .2	[.08]
.XX = ± .02	[.51]
.XXX = ± .005	[.13]
ANGLES ± 1°	
CABLE LENGTH (L) TOLERANCES:	
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	
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.	

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SIZE	A
CAGE CODE	53919
DRAWN BY	K.DANG
ITEM NO.	PE3C6086

THIRD-ANGLE PROJECTION	
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SHEET	1 OF 1
SCALE	N/A
REV	A

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