

SMA Male Right Angle to N Male Cable Using RG58 Coax

PE3784

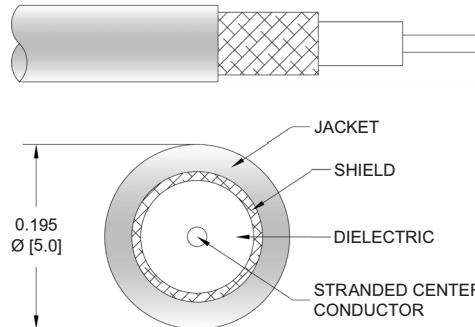


Configuration

- Connector 1: SMA Male Right Angle
- Connector 2: N Male
- Cable Type: RG58
- Coax Flex Type: Flexible

Features

- Max Frequency 5 GHz
- Shielding Effectivity > 45 dB
- 65.9% Phase Velocity
- PVC (NC) Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3784 SMA male right angle to type N male cable using RG58 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 type N cable assembly has a male to male gender configuration with 50 ohm flexible RG58 coax. The PE3784 SMA male to type N male cable assembly operates to 5 GHz. The right angle SMA interface on the RG58 cable allows for easier connections in tight spaces.

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		5	GHz
VSWR			1.4:1	
Velocity of Propagation		65.9		%
RF Shielding	45			dB
Capacitance		30.8 [101.05]		pF/ft [pF/m]

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	250	500	1000	2500	5000	MHz	
PE3784	Custom Lengths Available	Insertion Loss (Typ.)	0.074 0.25	0.116 0.39	0.2 0.66	0.35 1.15	0.6 1.97	dB/ft dB/m	
PE3784-12	12 inch	Insertion Loss (Typ.)	0.38	0.42	0.5	0.65	0.9	dB	0.109
PE3784-24	24 inch	Insertion Loss (Typ.)	0.45	0.54	0.7	1	1.5	dB	0.133
PE3784-36	36 inch	Insertion Loss (Typ.)	0.53	0.65	0.9	1.35	2.1	dB	0.157
PE3784-48	48 inch	Insertion Loss (Typ.)	0.6	0.77	1.1	1.7	2.7	dB	0.181
PE3784-200CM	200 cm	Insertion Loss (Typ.)	0.79	1.07	1.62	2.6	4.24	dB	0.485

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: 0.2 dB
 Loss due to Connector 2: 0.1 dB
 Base Weight: 0.109 pounds
 Additional Weight per Inch: 0.002 pounds

Mechanical Specifications

Cable Assembly

Weight 0.109 lbs [49.44 g]

Cable

Cable Type	RG58
Impedance	50 Ohms
Inner Conductor Type	Stranded
Inner Conductor Material and Plating	Copper, Tin
Dielectric Type	PE
Number of Shields	1
Shield Layer 1	Tinned Copper Braid
Jacket Material	PVC (NC), Black
Jacket Diameter	0.195 in [4.95 mm]
One Time Minimum Bend Radius	2 in [50.8 mm]

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Connectors

Description	Connector 1	Connector 2
Type	SMA Male Right Angle	N Male
Specification	MIL-STD-348A	
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Straight
Contact Material and Plating	Brass, Gold	Brass, Silver
Contact Plating Specification	50 μ in minimum	
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	100 μ in minimum	
Coupling Nut Material and Plating	Brass, Nickel	Brass, Nickel
Coupling Nut Plating Specification	100 μ in minimum	
Hex Size	5/16 in.	
Torque	5 in-lbs 0.57 Nm	

Environmental Specifications

Operating Range Temperature -40 to +80 deg C

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

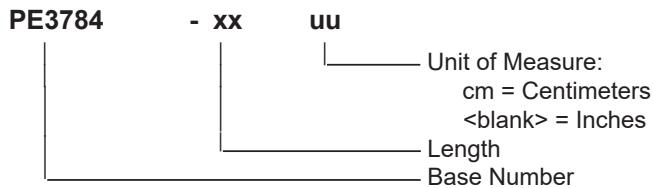
Plotted and Other Data

Notes:
Values at 25°C, sea level.

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**PE3784****Typical Performance Data****How to Order**

Part Number Configuration:



Example: PE3784-12 = 12 inches long cable
PE3784-100cm = 100 cm long cable

SMA Male Right Angle to N Male Cable Using RG58 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 N Male Cable Using RG58 Coax PE3784](#)

URL: <https://www.pasternack.com/sma-male-right-angle-to-n-male-cable-using-rg58-pe3784-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.

PE3784 CAD Drawing

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