



Reverse Polarity SMA Male Right Angle to SMA  
Male Cable 50 cm Length Using RG400 Coax

RF Cable Assemblies Technical Data Sheet

PE3W06085-50CM

### Configuration

- Connector 1: SMA Male Reverse Polarity Right Angle
- Connector 2: SMA Male
- Cable Type: RG400

### Features

- Max Frequency 3 GHz
- 70% Phase Velocity
- Double Shielded
- FEP Jacket

### Applications

- General Purpose
- Laboratory Use

### Description

Pasternack's PE3W06085-50CM reverse polarity SMA male right angle to SMA male 50 cm cable using RG400 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 reverse polarity SMA to SMA cable assembly has a male to male gender configuration with 50 ohm flexible RG400 coax. The PE3W06085-50CM reverse polarity SMA male to SMA male cable assembly operates to 3 GHz. The right angle SMA interface on the RG400 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.

### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
VSWR			1.5:1	
Velocity of Propagation		70		%
Capacitance		32 [104.99]		pF/ft [pF/m]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Reverse Polarity SMA Male Right Angle to SMA Male Cable 50 cm Length Using RG400 Coax PE3W06085-50CM](#)



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### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	3	GHz
Insertion Loss (Max.)	0.4	0.45	0.55	0.67	0.72	dB

### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax used 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]
Diameter	0.315 in [8 mm]

#### Cable

Cable Type	RG400
Impedance	50 Ohms
Inner Conductor Type	Stranded
Inner Conductor Material and Plating	Copper, 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 Reverse Polarity Right Angle	SMA Male
Specification		MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Beryllium Copper, 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	Brass, Nickel
Coupling Nut Plating Specification		100 µin minimum
Hex Size	5/16 inch	5/16 inch
Torque	3 in-lbs [0.34 Nm]	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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PE3W06085-50CM

**How to Order**

Part Number Configuration:

**PE3W06085**

- **xx**

**uu**

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

Example: PE3W06085-12 = 12 inches long cable  
PE3W06085-100cm = 100 cm long cable

Reverse Polarity SMA Male Right Angle to SMA Male Cable 50 cm Length Using RG400 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.

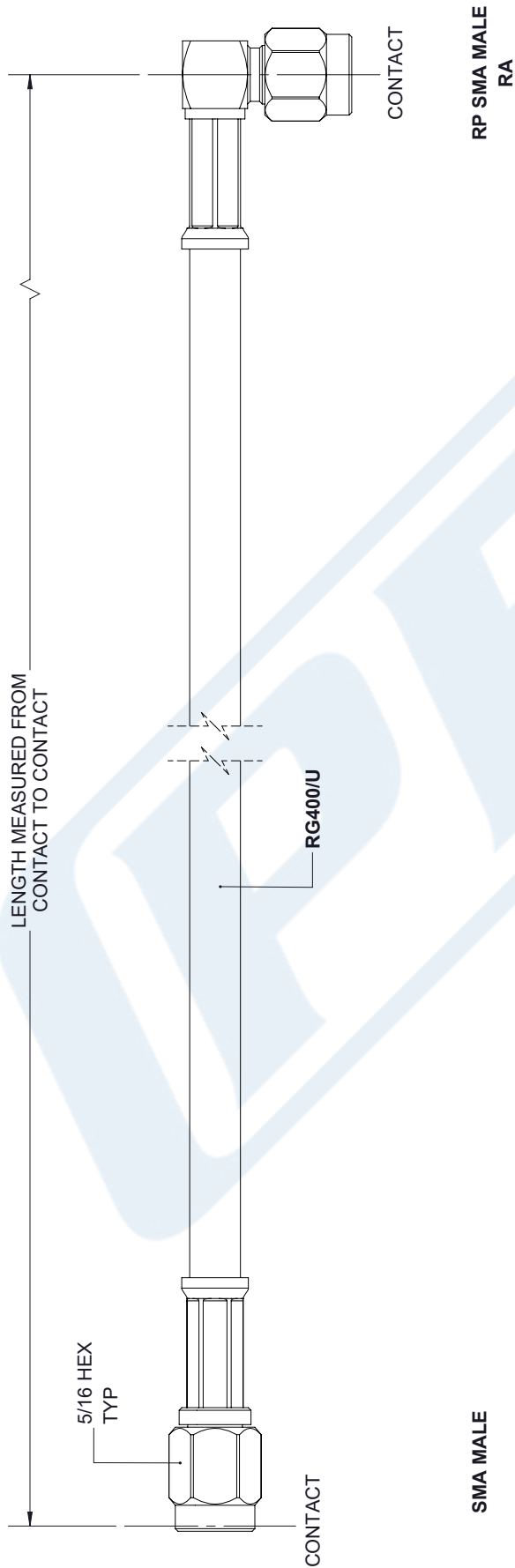
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Reverse Polarity SMA Male Right Angle to SMA Male Cable 50 cm Length Using RG400 Coax PE3W06085-50CM](https://www.pasternack.com/sma-male-sma-male-rg400u-cable-assembly-pe3w06085-50cm-p.aspx)

URL: <https://www.pasternack.com/sma-male-sma-male-rg400u-cable-assembly-pe3w06085-50cm-p.aspx>

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**PE3W06085-50CM CAD Drawing**  
Reverse Polarity SMA Male Right Angle to SMA Male  
Cable 50 cm Length Using RG400 Coax

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	05/02/19	SELLIS



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]	ANGLES ± 1°
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.	
THIRD-ANGLE PROJECTION	

<b>PE PASTERNAK</b> an INFINITO brand	
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SIZE	A
CAGE	53919
DRAWN BY	K.DANG
PART NUMBER	PE3W06085
REV	A

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SHEET	1 OF 1
SCALE	N/A

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