



## 2.92mm Male to 2.92mm Male Cable 50 cm Length Using PE-P086 Coax

### RF Cable Assemblies Technical Data Sheet

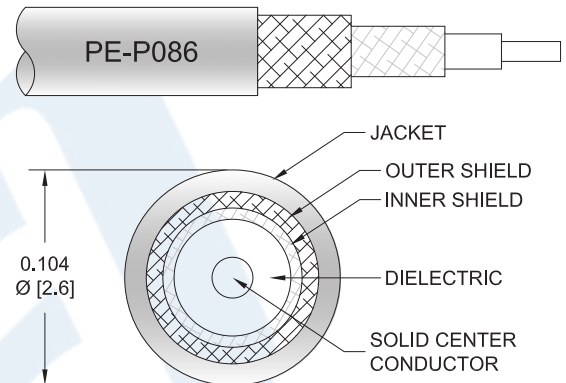
PE3C0666-50CM

#### Configuration

- Connector 1: 2.92mm Male
- Connector 2: 2.92mm Male
- Cable Type: PE-P086

#### Features

- Max Frequency 40 GHz
- Shielding Effectivity > 110 dB
- 70% Phase Velocity
- Double Shielded
- FEP Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3C0666-50CM 2.92mm male to 2.92mm male 50 cm cable using PE-P086 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 2.92mm to 2.92mm cable assembly has a male to male gender configuration with 50 ohm flexible PE-P086 coax. The PE3C0666-50CM 2.92mm male to 2.92mm male cable assembly operates to 40 GHz. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness of better than 110 dB.

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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [2.92mm Male to 2.92mm Male Cable 50 cm Length Using PE-P086 Coax PE3C0666-50CM](#)



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### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		40	GHz
VSWR			1.4:1	
Return Loss			-15.56	dB
Velocity of Propagation		70		%
RF Shielding	110			dB
Capacitance		29.4 [96.46]		pF/ft [pF/m]

### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	2.5	5	10	20	40	GHz
Insertion Loss (Max.)	0.76	1.03	1.48	2.12	3.08	dB

### Mechanical Specifications

#### Cable Assembly

Length*	19.69 in [500.13 mm]
Diameter	0.312 in [7.92 mm]
Weight	0.025 lbs [11.34 g]

#### Cable

Cable Type	PE-P086
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper Clad Steel, Silver
Dielectric Type	PTFE
Number of Shields	2
Shield Layer 1	Silver Plated Copper Tape
Shield Layer 2	Silver Plated Copper Braid
Jacket Material	FEP, Blue
Jacket Diameter	0.104 in [2.64 mm]
One Time Minimum Bend Radius	0.4 in [10.16 mm]
Repeated Minimum Bend Radius	1.57 in [39.88 mm]

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**Connectors**

Description	Connector 1	Connector 2
Type	2.92mm Male	2.92mm Male
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Dielectric Type	Noryl	Noryl
Body Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel
Coupling Nut Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel
Hex Size	5/16 Inch	5/16 Inch

Mechanical Specification Notes:

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

**Environmental Specifications**

**Temperature**

Operating Range -40 to +105 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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PE3C0666-50CM

**How to Order**

Part Number Configuration:

**PE3C0666**

- **xx**

**uu**

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

Example: PE3C0666-12 = 12 inches long cable  
PE3C0666-100cm = 100 cm long cable

2.92mm Male to 2.92mm Male Cable 50 cm Length Using PE-P086 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: [2.92mm Male to 2.92mm Male Cable 50 cm Length Using PE-P086 Coax PE3C0666-50CM](#)

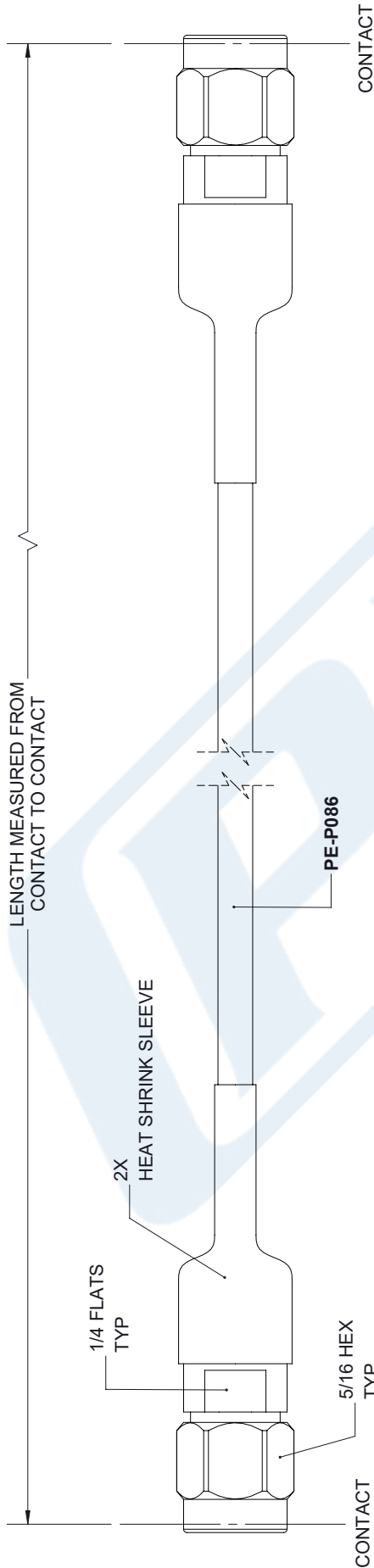
URL: <https://www.pasternack.com/2.92mm-male-2.92mm-male-pe-p086-cable-assembly-pe3c0666-50cm-p.aspx>

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# PE3C0666-50CM CAD Drawing

2.92mm Male to 2.92mm Male Cable 50 cm Length Using PE-P086 Coax

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	10/09/19	S. ELLIS



2.92mm  
MALE

2.92mm  
MALE

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS	
TOLERANCES:	FRACTIONS
X±.2	[ 5/16 ]
.XX±.01	[ .25 ]
.XXX±.005	[ .13 ]
ANGLES ± 1°	
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.	
THIRD-ANGLE PROJECTION	

**(PE) PASTERNAK**  
an INFINITO brand

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SIZE: A    CAGE CODE: 53919    DRAWN BY: K.DANG    PART NUMBER: PE3C0666    REV: A

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SHEET 1	OF 1
SCALE	N/A

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