

## 1.85mm Male to 1.85mm Male Cable 48 Inch Length Using PE-P086 Coax



### RF Cable Assemblies Technical Data Sheet

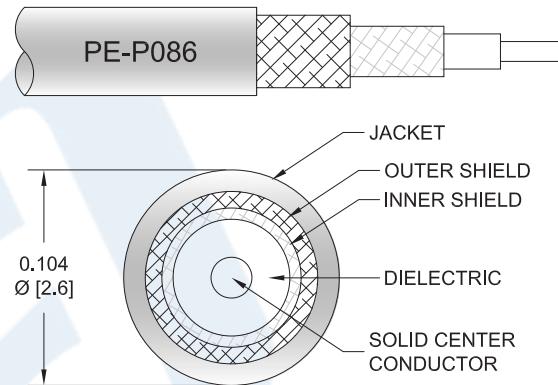
PE3C0752-48

#### Configuration

- Connector 1: 1.85mm Male
- Connector 2: 1.85mm Male
- Cable Type: PE-P086

#### Features

- Max Frequency 40 GHz
- Shielding Effectivity > 110 dB
- 69.5% Phase Velocity
- Double Shielded
- FEP Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3C0752-48 1.85mm male to 1.85mm male 48 inch 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 1.85mm to 1.85mm cable assembly has a male to male gender configuration with 50 ohm flexible PE-P086 coax. The PE3C0752-48 1.85mm male to 1.85mm 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.

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		40	GHz
VSWR			1.4:1	
Velocity of Propagation		69.5		%
RF Shielding	110			dB
Capacitance		29.4 [96.46]		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: [1.85mm Male to 1.85mm Male Cable 48 Inch Length Using PE-P086 Coax PE3C0752-48](#)

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Length Using PE-P086 Coax



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### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	3	5	10	18	GHz
Insertion Loss (Typ.)	1.15	1.96	2.53	3.66	4.76	dB
VSWR (Max.)	1.3:1	1.3:1	1.3:1	1.4:1	1.4:1	

### Mechanical Specifications

#### Cable Assembly

Length*	48 in [121.92 cm]
Diameter	0.375 in [9.53 mm]
Weight	0.055 lbs [24.95 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	0.1 in [2.54 mm]

One Time Minimum Bend Radius  
Repeated Minimum Bend Radius

0.4 in [10.16 mm]  
1.57 in [39.88 mm]

### Connectors

Description	Connector 1	Connector 2
Type	1.85mm Male	1.85mm 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
Torque	8 in-lbs [0.9 Nm]	8 in-lbs [0.9 Nm]

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#### 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

-55 to +200 deg C

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

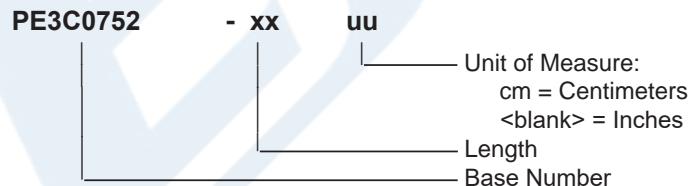
#### Plotted and Other Data

##### Notes:

- Values at 25°C, sea level.

#### How to Order

Part Number Configuration:



Example: PE3C0752-12 = 12 inches long cable  
PE3C0752-100cm = 100 cm long cable

1.85mm Male to 1.85mm Male Cable 48 Inch 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.

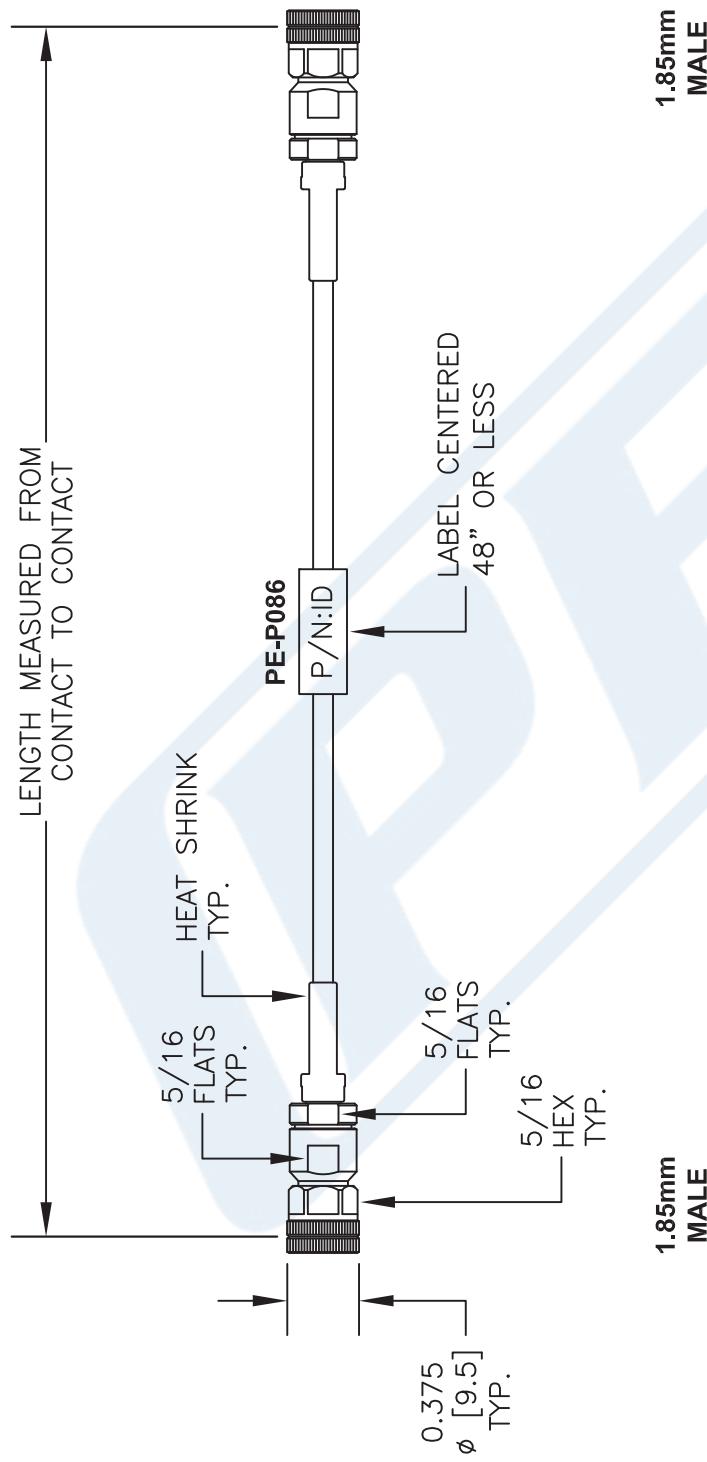
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [1.85mm Male to 1.85mm Male Cable 48 Inch Length Using PE-P086 Coax PE3C0752-48](https://www.pasternack.com/1.85mm-male-to-1.85mm-male-pe-p086-cable-assembly-pe3c0752-48-p.aspx)

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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.

# PE3C0752-48 CAD Drawing

1.85mm Male to 1.85mm Male Cable 48 Inch Length Using PE-P086 Coax



How To Order		Part # Ext.	Length In Inches	Part # Ext.	Length In Centimeters
Part Number Configuration	Examples	-12	12"	-25CM	25Cm
PE3 <u>zzz</u> <u>yy</u> - <u>xx</u> <u>uu</u>	PE3000LF-100	-24	24"	-50CM	50Cm
00 - 99999	PE3000-100	-36	36"	-75CM	75Cm
LF = RoHS Compliant	PE3000LF-100CM	-48	48"	-100CM	100Cm
< Blank > = Standard	PE3000-100CM	-60	60"	-125CM	125Cm
Length	-xx	Custom Length	-xxCM	Custom Length	Custom Length

NOTES:  
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.  
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.  
3. DIMENSIONS ARE IN INCHES [mm].  
4. LENGTH TOLERANCE IS  $\pm 1.5\%$  OR 3/8", WHICHEVER IS GREATER.

DWG TITLE  
**PE3C0752**

**PASTERNACK**  
THE ENGINEER'S RF SOURCE

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FSCM NO.	53919	CAD FILE	031214	SCALE	N/A	SIZE	A	2233
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