



## 2.4mm Male to 2.92mm Male Cable Using PE-P086 Coax with HeatShrink

### RF Cable Assemblies Technical Data Sheet

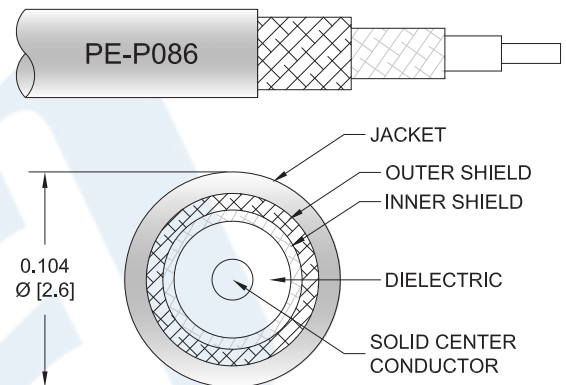
PE3C8672/HS

#### Configuration

- Connector 1: 2.4mm Male
- Connector 2: 2.92mm Male
- Cable Type: PE-P086

#### Features

- Max Frequency 18 GHz
- Shielding Effectivity > 110 dB
- 70% Phase Velocity
- Double Shielded
- FEP Jacket
- 500 Mating Cycles



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3C8672/HS 2.4mm male to 2.92mm male 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 2.4mm to 2.92mm cable assembly has a male to male gender configuration with 50 ohm flexible PE-P086 coax. The PE3C8672/HS 2.4mm male to 2.92mm male cable assembly operates to 18 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: [2.4mm Male to 2.92mm Male Cable Using PE-P086 Coax with HeatShrink PE3C8672/HS](#)



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**PE3C8672/HS**

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
VSWR			1.4:1	
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	1	2	4.5	9	18	GHz
Insertion Loss (Typ.)	0.221	0.305	0.47	0.695	1.046	dB/ft
	0.73	1	1.54	2.28	3.43	dB/m

#### Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB per connector.

#### Mechanical Specifications

##### Cable Assembly

Weight 0.526 lbs [238.59 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]  
 Repeated Minimum Bend Radius 0.5 in [12.7 mm]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [2.4mm Male to 2.92mm Male Cable Using PE-P086 Coax with HeatShrink PE3C8672/HS](#)



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**PE3C8672/HS**

**Connectors**

Description	Connector 1	Connector 2
Type	2.4mm Male	2.92mm Male
Impedance	50 Ohms	50 Ohms
Mating Cycles	500	500
Contact Material and Plating	Beryllium Copper, Gold over Nickel	Beryllium Copper, Gold over Nickel
Contact Plating Specification	MIL-G-45204	50 µin minimum
Dielectric Type	PPO	PCTFE
Body Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel
Body Plating Specification	ASTM-A380	SAE-AMS-2700
Coupling Nut Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel
Coupling Nut Plating Specification	ASTM-A380	SAE-AMS-2700
Hex Size	5/16 inch	5/16 inch
Torque	8 in-lbs [0.9 Nm]	8 in-lbs [0.9 Nm]

**Environmental Specifications**

**Temperature**

Operating Range -55 to +100 deg C

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

**Plotted and Other Data**

Notes:

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## 2.4mm Male to 2.92mm Male Cable Using PE-P086 Coax with HeatShrink

### RF Cable Assemblies Technical Data Sheet

**PE3C8672/HS**

#### How to Order

Part Number Configuration:

**PE3C8672/HS - xx uu**

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

Example: PE3C8672/HS-12 = 12 inches long cable  
PE3C8672/HS-100cm = 100 cm long cable

2.4mm Male to 2.92mm Male Cable Using PE-P086 Coax with HeatShrink 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.

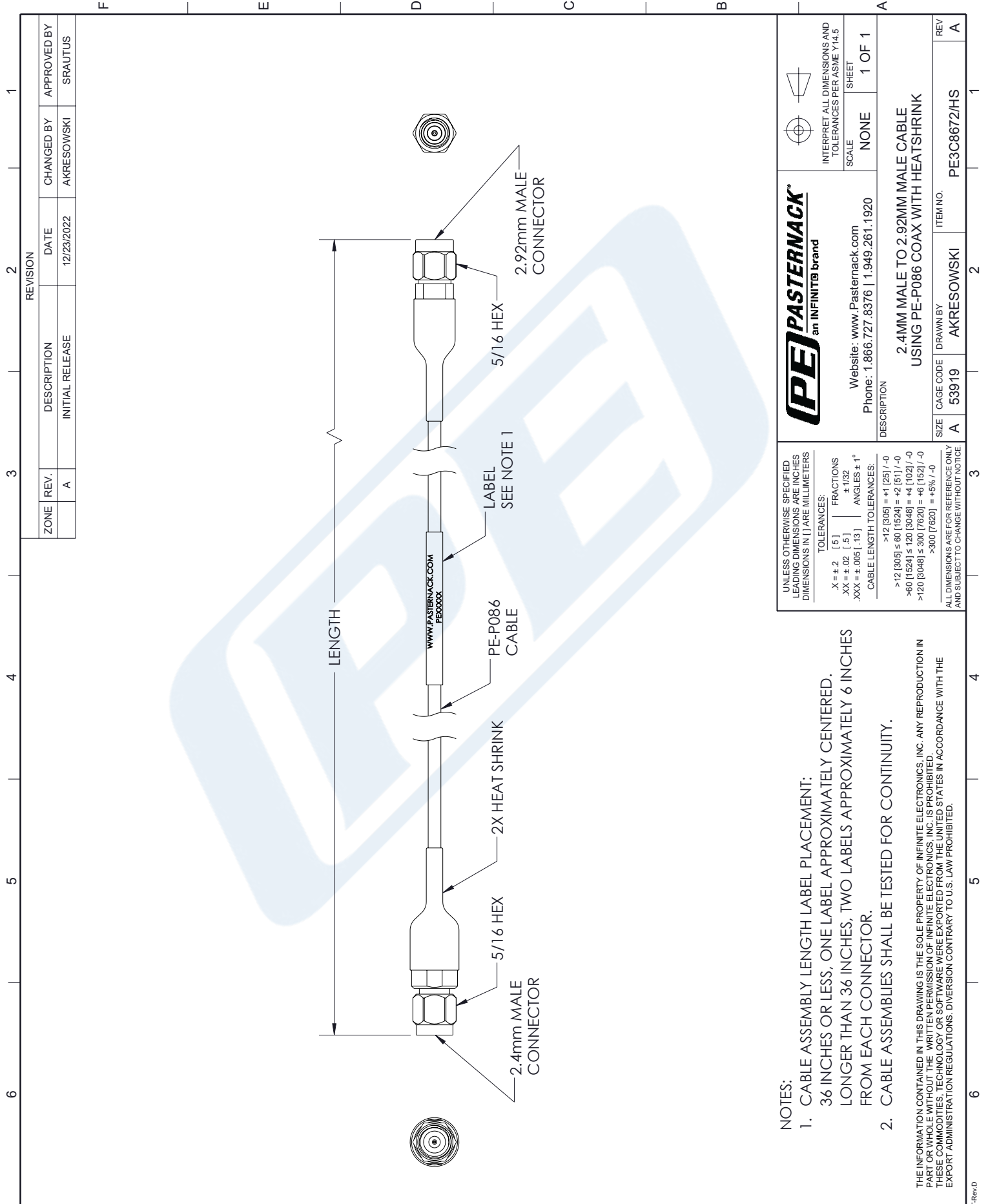
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [2.4mm Male to 2.92mm Male Cable Using PE-P086 Coax with HeatShrink PE3C8672/HS](https://www.pasternack.com/2.4mm-male-to-2.92mm-male-cable-using-pe-p086-with-heatshrink-pe3c8672-hs-p.aspx)

URL: <https://www.pasternack.com/2.4mm-male-to-2.92mm-male-cable-using-pe-p086-with-heatshrink-pe3c8672-hs-p.aspx>

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# PE3C8672/HS CAD Drawing

2.4mm Male to 2.92mm Male Cable Using PE-P086 Coax with HeatShrink



**NOTES:**

- CABLE ASSEMBLY LENGTH LABEL PLACEMENT:  
36 INCHES OR LESS, ONE LABEL APPROXIMATELY CENTERED.  
LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY 6 INCHES FROM EACH CONNECTOR.
- CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.

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UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES:

X = ±.2 [ .5 ]      FRACTIONS ±.1/32  
 .XX = ±.02 [ .5 ]      ANGLES ± 1°  
 .XXX = ±.005 [ .13 ]

CABLE LENGTH TOLERANCES:  
 >12 [305] = +1 [25] / -0  
 >60 [1524] = +2 [51] / -0  
 >60 [1524] ≤ 120 [3048] = +4 [102] / -0  
 >120 [3048] ≤ 300 [7620] = +6 [152] / -0  
 >300 [7620] = +5% / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE

**PE PASTERNAK**  
an INFINIT9 brand

Website: [www.Pasternack.com](http://www.Pasternack.com)  
 Phone: 1.866.727.8376 | 1.949.261.1920

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE: NONE      SHEET: 1 OF 1

DESCRIPTION: 2.4MM MALE TO 2.92MM MALE CABLE USING PE-P086 COAX WITH HEATSHRINK

SIZE: A      CAGE CODE: 53919      DRAWN BY: AKRESOWSKI      ITEM NO.: PE3C8672/HS

REV: A