

## SMA Male to Limited Detent SMP Male Bulkhead Cable Using PE-P086 Coax

### RF Cable Assemblies Technical Data Sheet

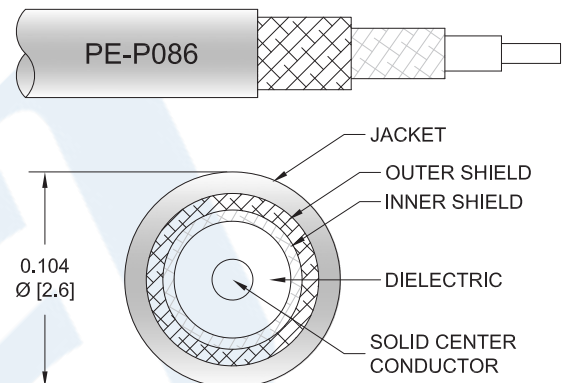
**PE3C8353**

#### Configuration

- Connector 1: SMA Male
- Connector 2: Limited Detent SMP Male Bulkhead
- Cable Type: PE-P086

#### Features

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



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3C8353 SMA male to SMP male limited detent bulkhead 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 SMA to SMP cable assembly has a male to male gender configuration with 50 ohm flexible PE-P086 coax. The PE3C8353 SMA male to SMP male cable assembly operates to 18 GHz. Our RF cable assembly with SMP bulkhead interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications. 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: [SMA Male to Limited Detent SMP Male Bulkhead Cable Using PE-P086 Coax PE3C8353](#)

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Bulkhead Cable Using PE-P086 Coax

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**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.)	0.192	0.277	0.457	0.675	0.951	dB/ft
	0.63	0.91	1.5	2.21	3.12	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**

Diameter 0.315 in [8 mm]

**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]

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#### Connectors

Description	Connector 1	Connector 2
Type	SMA Male	SMP Male Bulkhead
Specification		MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Connection Method		Limited Detent
Mating Cycles		500
Contact Material and Plating	Brass, Gold over Nickel	Brass, Gold
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Gold over Nickel	Brass, Gold
Coupling Nut Material and Plating	Passivated Stainless Steel	
Hex Size	5/16 inch	
Torque	8 in-lbs [0.9 Nm]	

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

#### Plotted and Other Data

Notes:

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**RF Cable Assemblies Technical Data Sheet**

**PE3C8353**

**How to Order**

Part Number Configuration:

**PE3C8353**

- **xx**

**uu**

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

Example: PE3C8353-12 = 12 inches long cable  
PE3C8353-100cm = 100 cm long cable

SMA Male to Limited Detent SMP Male Bulkhead Cable 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: [SMA Male to Limited Detent SMP Male Bulkhead Cable Using PE-P086 Coax PE3C8353](#)

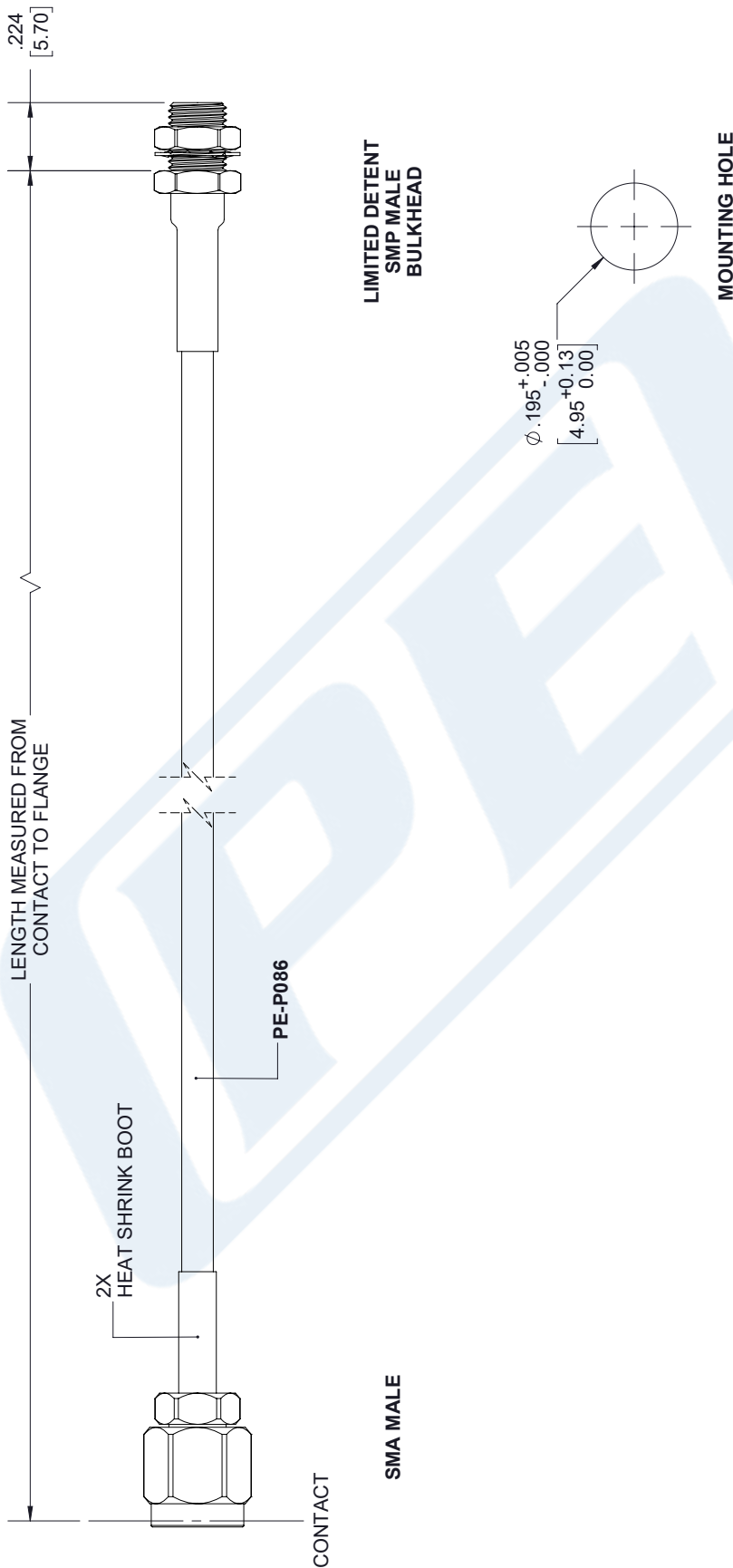
URL: <https://www.pasternack.com/sma-male-smp-male-pe-p086-cable-assembly-pe3c8353-p.aspx>

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.

# PE3C8353 CAD Drawing

SMA Male to Limited Detent SMP Male Bulkhead Cable Using PE-P086 Coax

REVISIONS		
REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	6/10/2021
		APPROVED
		S. ELLIS



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

**TOLERANCES:**

.X = ± .2	[5.08]	FRACTIONS	± 1/32
.XX = ± .02	[.51]	ANGLES ± 1°	
.XXX = ± .005	[.13]	CABLE LENGTH (L) TOLERANCES:	
		L ≤ 12 [305]	= +1 [25] / -0
		12 [305] < L ≤ 60 [1524]	= +2 [51] / -0
		60 [1524] < L ≤ 120 [3048]	= +4 [102] / -0
		120 [3048] < L ≤ 300 [7620]	= +6 [152] / -0
		300 [7620] < L = +5% / L / -0	

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

THIRD-ANGLE PROJECTION

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SHEET 1 OF 1

SCALE N/A

REV A

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ITEM NO. PE3C8353

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