



2.4mm Male to 2.92mm Female Cable Using PE-P160 Coax

TECHNICAL DATA SHEET

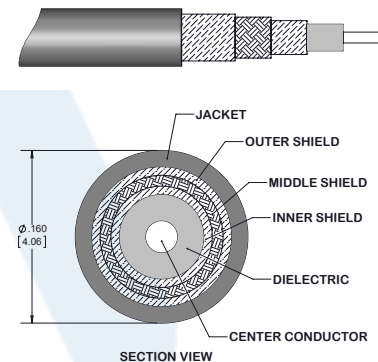
PE3C5828

Configuration

- Connector 1: 2.4mm Male
- Connector 2: 2.92mm Female
- Cable Type: PE-P160
- Coax Flex Type: Flexible

Features

- Max Frequency 40 GHz
- Shielding Effectivity > 90 dB
- 78% Phase Velocity
- Triple Shielded
- ETFE Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C5828 2.4mm male to 2.92mm female cable using PE-P160 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 female gender configuration with 50 ohm flexible PE-P160 coax. The PE3C5828 2.4mm male to 2.92mm female cable assembly operates to 40 GHz. The triple shielding of this Pasternack cable assembly provides excellent shielding effectiveness of better than 90 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 Female Cable Using PE-P160 Coax PE3C5828](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		40	GHz
VSWR			1.4:1	
Velocity of Propagation		78		%
RF Shielding	90			dB
Capacitance		26 [85.3]		pF/ft [pF/m]
Inductance		66 [216.54]		uH/ft [uH/m]

Specifications by Frequency

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	2500	5000	10000	20000	40000	MHz	
PE3C5828	Custom Lengths Available	Insertion Loss (Typ.)	0.2	0.29	0.43	0.643	1.071	dB/ft	
			0.66	0.97	1.42	2.11	3.52	dB/m	
PE3C5828-24	24 inch	Insertion Loss (Typ.)	0.6	0.79	1.06	1.49	2.35	dB	0.09
PE3C5828-36	36 inch	Insertion Loss (Typ.)	0.8	1.08	1.49	2.13	3.42	dB	0.118
PE3C5828-48	48 inch	Insertion Loss (Typ.)	1	1.38	1.92	2.78	4.49	dB	0.146
PE3C5828-60	60 inch	Insertion Loss (Typ.)	1.2	1.67	2.35	3.42	5.56	dB	0.174
PE3C5828-72	72 inch	Insertion Loss (Typ.)	1.4	1.96	2.78	4.06	6.63	dB	0.202

The insertion loss data for the base model does not include loss due to the connectors. Each length includes insertion loss due to the connectors.

Loss due to Connector 1:	0.1 dB
Loss due to Connector 2:	0.1 dB
Base Weight:	0.061 pounds
Additional Weight per Inch:	0.00234 pounds

Mechanical Specifications

Cable Assembly

Weight 0.061 lbs [27.67 g]

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Cable

Cable Type	PE-P160
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper, Silver
Dielectric Type	PTFE
Number of Shields	3
Shield Layer 1	Silver Plated Copper
Shield Layer 2	Aluminum Tape
Shield Layer 3	Silver Plated Copper
Jacket Material	ETFE, Gray
Jacket Diameter	0.155 in [3.94 mm]

Repeated Minimum Bend Radius 0.8 in [20.32 mm]

Connectors

Description	Connector 1	Connector 2
Type	2.4mm Male Threaded	2.92mm Female Threaded
Specification	IEEE-STD-P287. Figure G.4. Except Conductor	
Tolerances and Contact Retension.		
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Contact Plating Specification	ASTM-B488 50µ In. Min	ASTM-B488 50µ In. Min
Dielectric Type	PEI	PTFE
Outer Conductor Material and Plating		Passivated Stainless Steel
Outer Conductor Plating Specification		SAE-AMS-2700
Body Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel
Body Plating Specification	SAE-AMS-2700	SAE-AMS-2700
Coupling Nut Material and Plating	Passivated Stainless Steel	
Coupling Nut Plating Specification	SAE-AMS-2700	
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:

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 Female Cable Using PE-P160 Coax PE3C5828](#)



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How to Order

Part Number Configuration:

PE3C5828

- **xx**

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

Example: PE3C5828-12 = 12 inches long cable
PE3C5828-100cm = 100 cm long cable

2.4mm Male to 2.92mm Female Cable Using PE-P160 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.

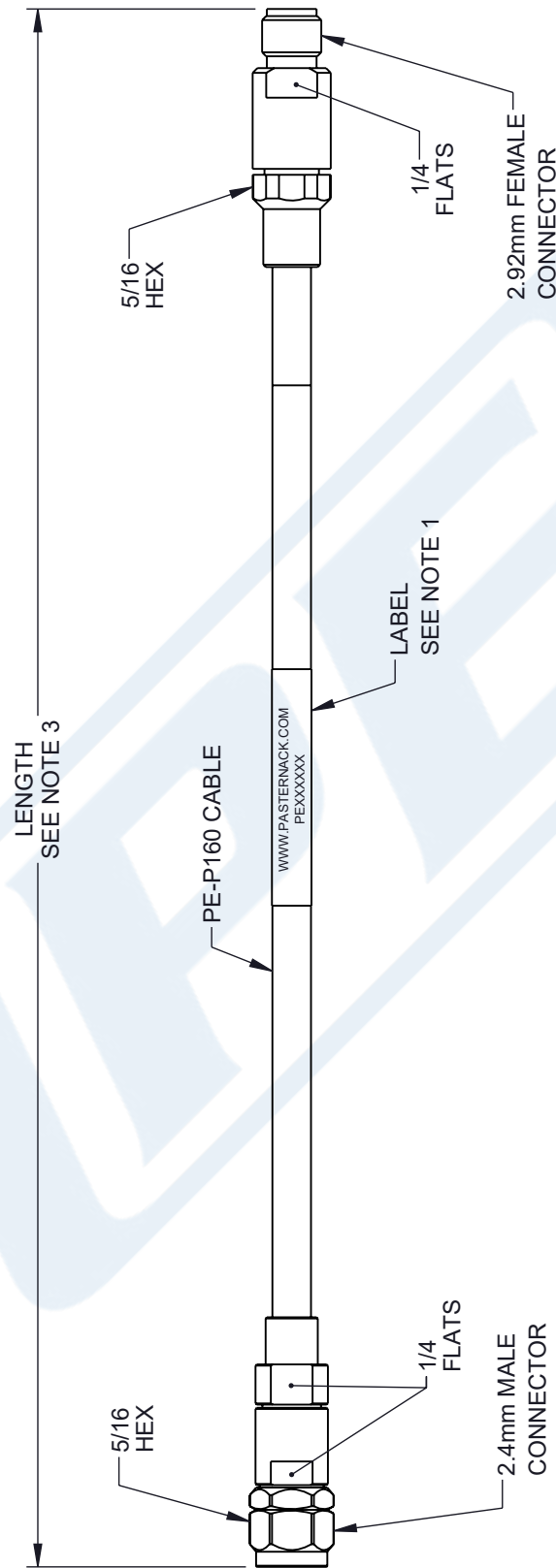
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URL: <https://www.pasternack.com/2.4mm-male-to-2.92mm-female-cable-using-pe-p160-pe3c5828-p.aspx>

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.

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NOTES:

1. 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.
2. CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
3. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION

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UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS		 		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5	
TOLERANCES:					
X = +2 [5]		FRACTIONS			
XX = +0 [0.5]		± 1/32			
XXX = ±0.05 [0.13]		ANGLES ± 1°			
CABLE LENGTH TOLERANCES:					
>12 [305] ≤ 60 [1524]		±1 [25] / -0			
>60 [1524] ≤ 120 [3048]		+2 [51] / -0			
>120 [3048] ≤ 300 [7620]		+4 [102] / -0			
>300 [7620]		+6 [152] / -0			
>900 [1820]		+5% / -0			
ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE UN-DIMENSIONED NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION COLORS MAY VARY					
DESCRIPTION		2.4mm MALE TO 2.92mm FEMALE CABLE USING PE-P160 COAX			
Phone: 1.866.727.8376 1.949.261.1920		Website: www.Pasternack.com			
an INFINITI® brand					
PE PASTERNAK®					
SCALE		NONE		SHEET 1 OF 1	
SIZE		CAGE CODE		ITEM NO.	
A		53919		BPUCHASKI	
DRAWN BY				REV	
				A	
				PE3C5828	