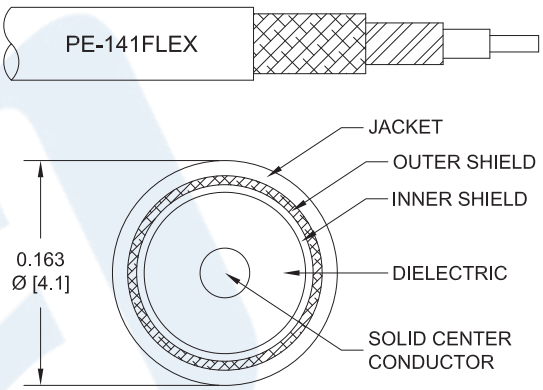
PASTERNACK®
THE ENGINEER'S RF SOURCE

SMA Female Bulkhead to SMA Male Cable Using PE-141FLEX Coax, RoHS

RF Cable Assemblies Technical Data Sheet PE3CA1038

Configuration

- Connector 1: SMA Female Bulkhead
- Connector 2: SMA Male
- Cable Type: PE-141FLEX



Features

- Design operates to 26 GHz
- Shielding effectivity > 90dB
- One time minimum bend radius: 0.4 inch
- Typical SMA VSWR 1.40:1 to 26 GHz

Applications

- High Performance RF equipment interconnect
- Flexible in cabinet or in the rack requirements
- Inside the box RF routing
- General purpose lighter duty lab use

Description

These new high performance flexible cables are made using our PE-141FLEX coax and our new low profile connectors. The high performance flexible design is well suited for connecting RF devices in rack-mount systems, inside RF equipment and for general lab hookup where a more expensive test cable is not required. These cables are similar to the PE30X series which have retractable coupling nuts and thick wall SMA connectors. The heavier duty PE35X test series cables have similar performance, but include a heavy duty strain relief mechanism and extra booting material as well as a thick wall SMA connector to increase the ruggedness of the PE35X cables for use in more demanding test environments.

PE-141FLEX is a flexible cable alternate to Semi Rigid coax and has a solid PTFE resulting in a 69.5% phase velocity. The smooth wall formed by the Braid over Spiral Ribbon design allows for a flexible cable that has similar performance to a solid wall 141 Semi Rigid (RG402) cable.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		26	GHz
VSWR			1.4:1	
Return Loss			15.56	dB
Velocity of Propagation		69.5		%
RF Shielding	90			dB
Group Delay		1.44 [4.72]		ns/ft [ns/m]
Capacitance		29.4 [96.46]		pF/ft [pF/m]
Operating Voltage (AC)			250	Vrms

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SMA Female Bulkhead to SMA Male Cable Using PE-141FLEX Coax, RoHS PE3CA1038

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
Phone: (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451
Sales@Pasternack.com • Techsupport@Pasternack.com

ISO 9001 : 2008 Registered

© 2017 Pasternack Enterprises All Rights Reserved

PASTERNACK®
THE ENGINEER'S RF SOURCE

SMA Female Bulkhead to SMA Male Cable Using PE-141FLEX Coax, RoHS

RF Cable Assemblies Technical Data Sheet PE3CA1038

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	3	6	12	18	26	GHz
Insertion Loss (Max.)	0.4	0.6	0.88	1.1	1.28	dB/ft
	1.31	1.97	2.89	3.61	4.2	dB/m
VSWR (Max.)	1.12:1	1.2:1	1.25:1	1.35:1	1.4:1	dB/m
Power Handling (Max.)	215	150	105	88	75	Watts

Mechanical Specifications

Cable Assembly

Cable

Cable Type	PE-141FLEX
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
Outer Conductor 1 Material and Plating	Silver Plated Copper Tape
Outer Conductor 2 Material and Plating	Silver Plated Copper Braid
Jacket Material	FEP
Jacket Diameter	0.163 in [4.14 mm]
One Time Minimum Bend Radius	0.4 in [10.16 mm]
Repeated Minimum Bend Radius	1.58 in [40.13 mm]

Click the following link (or enter part number in “SEARCH” on website) to obtain additional part information including price, inventory and certifications: SMA Female Bulkhead to SMA Male Cable Using PE-141FLEX Coax, RoHS PE3CA1038

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
Phone: (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451
Sales@Pasternack.com • Techsupport@Pasternack.com

ISO 9001 : 2008 Registered

© 2017 Pasternack Enterprises All Rights Reserved

SMA Female Bulkhead to SMA Male Cable Using PE-141FLEX Coax, RoHS

Connectors

Description	Connector 1	Connector 2
Type	SMA Female Bulkhead	SMA Male
Impedance	50 Ohms	50 Ohms
Mating Cycles	500	500
Contact Material and Plating	Beryllium Copper, Gold	Brass, Gold
Dielectric Type	PTFE	PTFE
Body Material and Plating	Stainless Steel, Gold	Stainless Steel, Gold
Coupling Nut Material and Plating		Passivated Stainless Steel
Hex Size		5/16 Inch
Seal Gasket Material	Silicon	

Mechanical Specification Notes:
*All cable assemblies have a length tolerance of 1.5% or ± 3/8", whichever is greater.

Environmental Specifications

Temperature

Operating Range -40 to +150 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

- Values at 25°C, sea level.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SMA Female Bulkhead to SMA Male Cable Using PE-141FLEX Coax, RoHS PE3CA1038

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
Phone: (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451
Sales@Pasternack.com • Techsupport@Pasternack.com

ISO 9001 : 2008 Registered

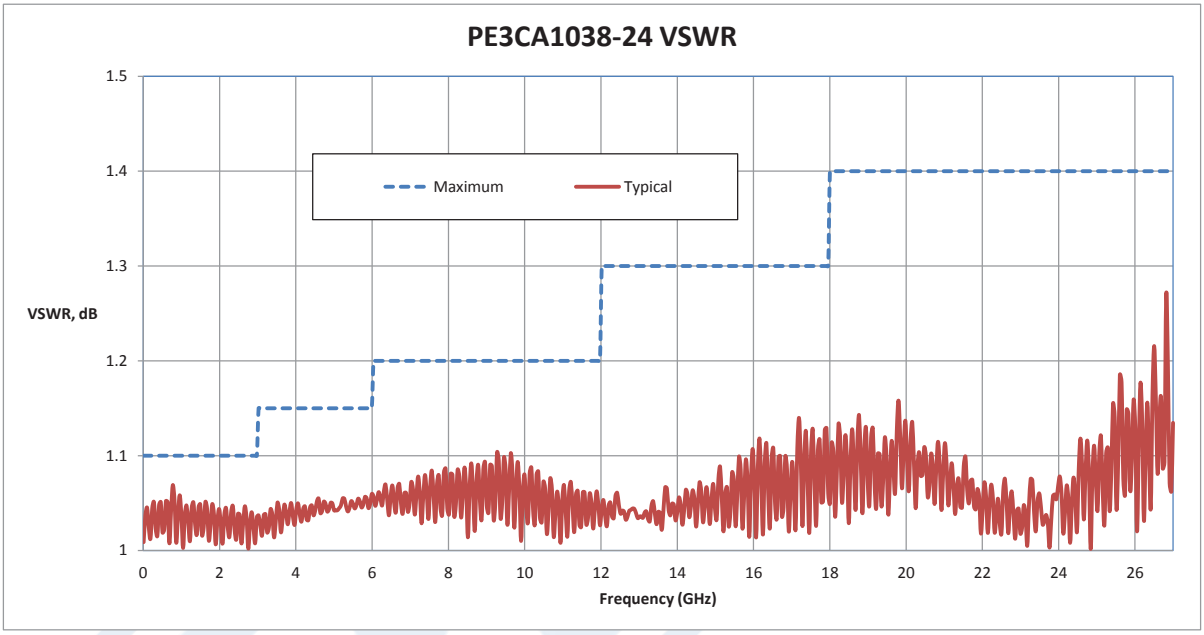
© 2017 Pasternack Enterprises All Rights Reserved

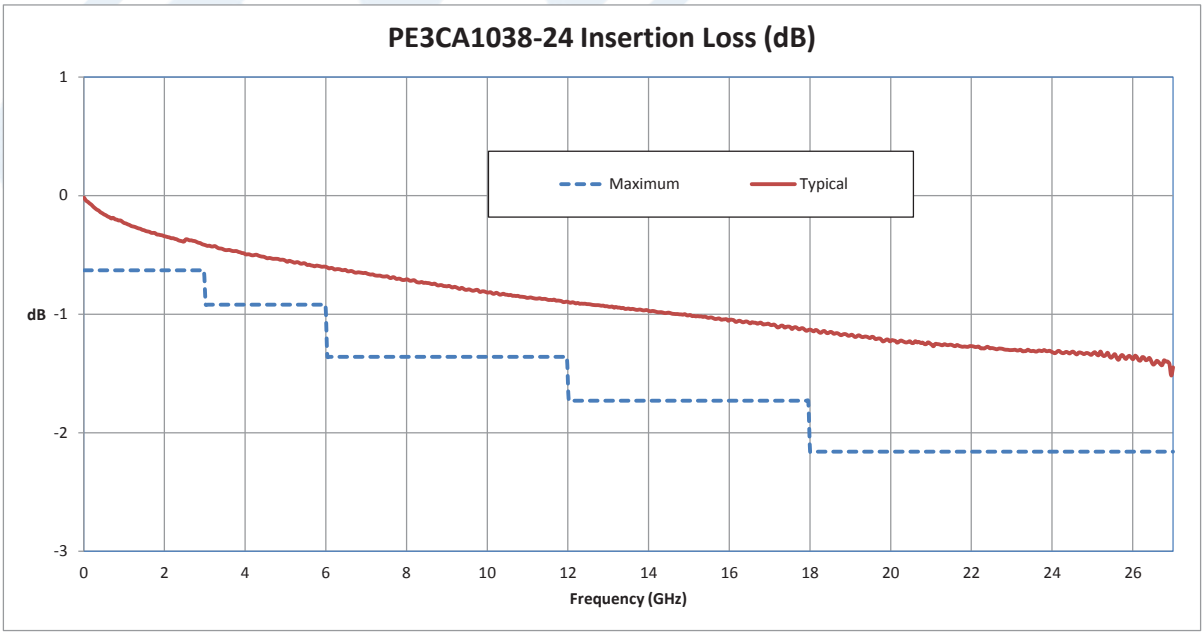
PASTERNACK®
THE ENGINEER'S RF SOURCE

SMA Female Bulkhead to SMA Male Cable Using PE-141FLEX Coax, RoHS

RF Cable Assemblies Technical Data Sheet PE3CA1038

Typical Performance Data





Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SMA Female Bulkhead to SMA Male Cable Using PE-141FLEX Coax, RoHS PE3CA1038

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
Phone: (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451
Sales@Pasternack.com • Techsupport@Pasternack.com

ISO 9001 : 2008 Registered

© 2017 Pasternack Enterprises All Rights Reserved

PASTERNACK®
THE ENGINEER'S RF SOURCE

SMA Female Bulkhead to SMA Male Cable Using PE-141FLEX Coax, RoHS

RF Cable Assemblies Technical Data Sheet PE3CA1038

How to Order

Part Number Configuration: **PE3CA1038 - xx uu**

- uu — Unit of Measure:
  - cm = Centimeters
  - <blank> = Inches
- xx — Length
- PE3CA1038 — Base Number

Example: PE3CA1038-12 = 12 inches long cable
PE3CA1038-100cm = 100 cm long cable

SMA Female Bulkhead to SMA Male Cable Using PE-141FLEX Coax, RoHS 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 Female Bulkhead to SMA Male Cable Using PE-141FLEX Coax, RoHS PE3CA1038

URL: https://www.pasternack.com/sma-female-sma-male-pe-141flex-cable-assembly-pe3ca1038-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.

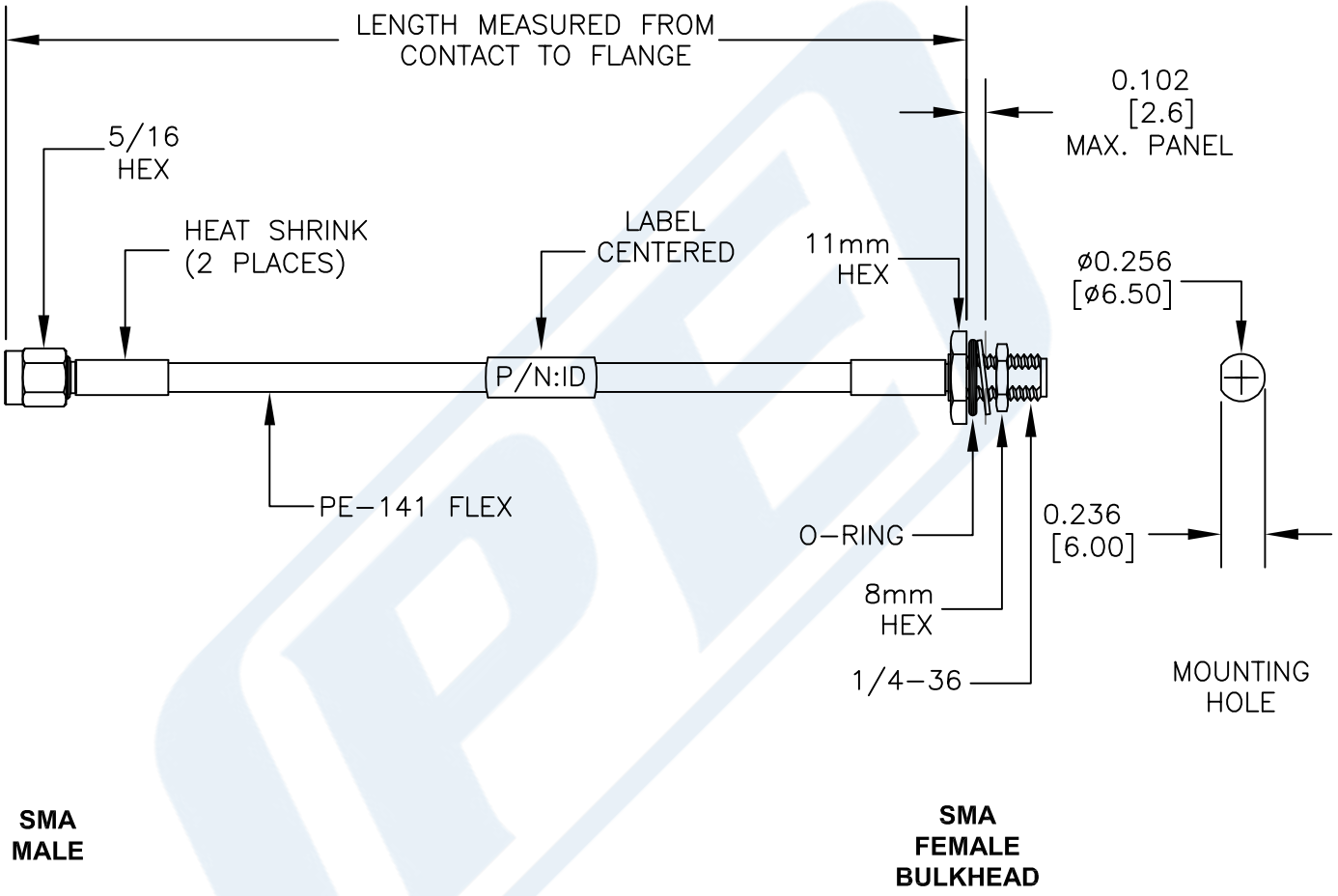
Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
Phone: (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451
Sales@Pasternack.com • Techsupport@Pasternack.com

ISO 9001 : 2008 Registered

© 2017 Pasternack Enterprises All Rights Reserved

PE3CA1038 CAD Drawing

SMA Female Bulkhead to SMA Male Cable Using PE-141FLEX Coax, RoHS



PASTERNACK THE ENGINEER'S RF SOURCE

Pasternack Enterprises, Inc.
P.O. Box 16759 | Irvine | CA | 92623

Phone: (949) 261-1920 | **Fax:** (949) 261-7451
Website: www.pasternack.com | **E-Mail:** sales@pasternack.com

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 ± 1.5% OR 3/8", WHICHEVER IS GREATER.

DWG TITLE		FSCM NO. 53919		
PE3CA1038				
CAD FILE	040915	SCALE N/A	SIZE A	150

© 2017 Pasternack Enterprises All Rights Reserved