



RF Cable Assemblies Technical Data Sheet

PE3CA1041

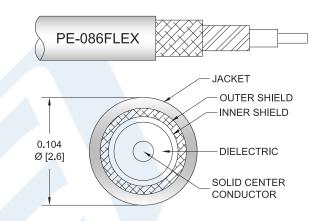
Configuration

Connector 1: SMA Male Right AngleConnector 2: SMA Male Right Angle

• Cable Type: PE-086FLEX

Features

- · Design operates to 27 GHz
- Shielding effectivity > 90dB
- One time minimum bend radius: 0.4 inch
- Typical SMA VSWR 1.24:1 to 27 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-086FLEX 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-086FLEX 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 086 Semi Rigid (RG405) cable.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		27	GHz
VSWR			1.4:1	
Return Loss	15.56			dB
Velocity of Propagation		69.5		%
RF Shielding	90			dB
Group Delay		1.47 [4.82]		ns/ft [ns/m]
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: SMA Male Right Angle to SMA Male Right Angle Cable Using PE-086FLEX Coax, RoHS PE3CA1041

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

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Operating Voltage (AC)	250	Vrms

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	3	6	12	18	27	GHz
Insertion Loss (Max.)	0.6	0.85	1.22	1.53	1.87	dB/ft
	[1.97]	[2.79]	[4]	[5.02]	[6.14]	[dB/m]
VSWR (Max.)	1.08:1	1.12:1	1.2:1	1.3:1	1.4:1	
Power Handling (Max.)	81	50	40	33	26	Watts

Electrical Specification Notes:

Short lengths up to 24" long may exhibit VSWR measurements up to 9% higher.

Mechanical Specifications

Cable Assembly

Cable

Cable Type Impedance Inner Conductor Type

Inner Conductor Material and Plating

Dielectric Type Number of Shields Shield Layer 1 Shield Layer 2

Outer Conductor 1 Material and Plating Outer Conductor 2 Material and Plating

Jacket Material Jacket Diameter

One Time Minimum Bend Radius Repeated Minimum Bend Radius

PE-086FLEX 50 Ohms

Solid

Copper Clad Steel, Silver

PTFE 2

Silver Plated Copper Tape Silver Plated Copper Braid Silver Plated Copper Tape Silver Plated Copper Braid

FEP

0.104 in [2.64 mm]

0.23 in [5.84 mm] 0.78 in [19.81 mm]

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Connectors

Description	Connector 1	Connector 2 SMA Male Right Angle	
Туре	SMA Male Right Angle		
Impedance	50 Ohms	50 Ohms	
Mating Cycles	500	500	
Contact Material and Plating	Brass, Gold	Brass, Gold	
Dielectric Type	PTFE	PTFE	
Coupling Nut Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel	
Hex Size	5/16 Inch	5/16 Inch	
Body Material and Plating	Stainless Steel, Gold	Stainless Steel, Gold	

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.

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PE3CA1041 REV 1.2

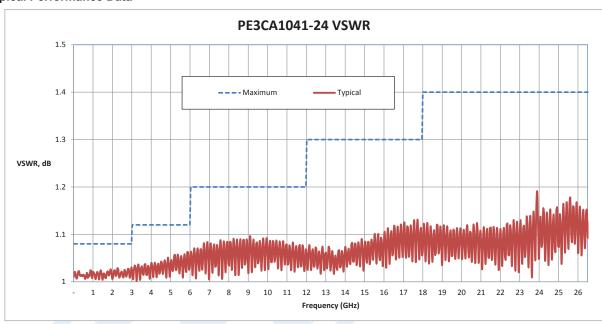


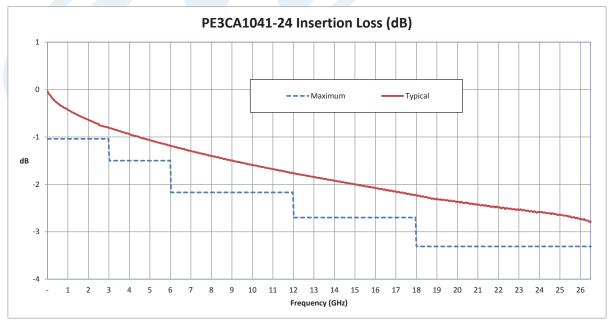


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Typical Performance Data





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How to Order



Example: PE3CA1041-12 = 12 inches long cable

PE3CA1041-100cm = 100 cm long cable

SMA Male Right Angle to SMA Male Right Angle Cable Using PE-086FLEX Coax, RoHS from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

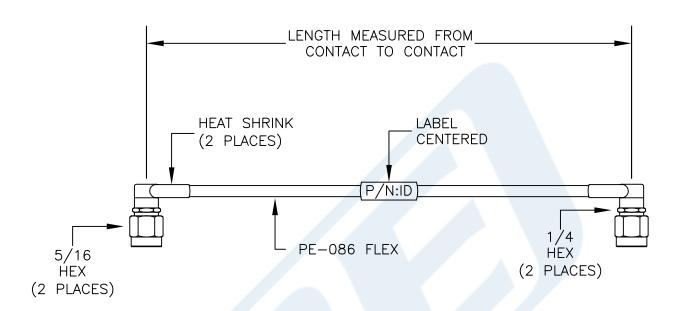
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URL: https://www.pasternack.com/sma-male-sma-male-pe-086flex-cable-assembly-pe3ca1041-p.aspx

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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RIGHT ANGLE SMA MALE

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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.

032715

DWG TITLE PE3CA1041

FSCM NO. 53919

CAD FILE

SCALE N/A

SIZE A

150