

SMA Male to SMA Female Bulkhead Cable Using PE-086FLEX Coax, RoHS



RF Cable Assemblies Technical Data Sheet

PE3CA1042

Configuration

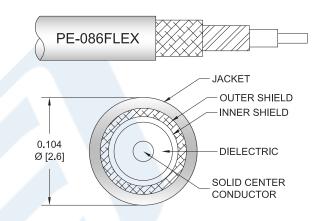
• Connector 1: SMA Male

• Connector 2: SMA Female Bulkhead

Cable Type: PE-086FLEX

Features

- Design operates to 27 GHz
- Shielding effectivity > 90dB
- One time minimum bend radius: 0.4 inch
- Typical SMA VSWR 1.25:1 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		1.44 [4.72]		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 to SMA Female Bulkhead Cable Using PE-086FLEX Coax, RoHS PE3CA1042

ISO 9001 : 2008 Registered



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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.)	0.62	0.9	1.3	1.6	1.85	dB/ft
	[2.03]	[2.95]	[4.27]	[5.25]	[6.07]	[dB/m]
VSWR (Max.)	1.12:1	1.2:1	1.25:1	1.35:1	1.4:1	
Power Handling (Max.)	81	50	40	33	26	Watts

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

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

0.104 in [2.64 mm]

0.24 in [6.1 mm] 0.79 in [20.07 mm]

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Connectors

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

Environmental Specifications

Temperature

Operating Range -40 to +150 deg C

Compliance Certifications (visit www.Pasternack.com for current document)

RoHS Compliant **REACH Compliant** 12/17/2015

Plotted and Other Data

Notes:

• Values at 25°C, sea level.

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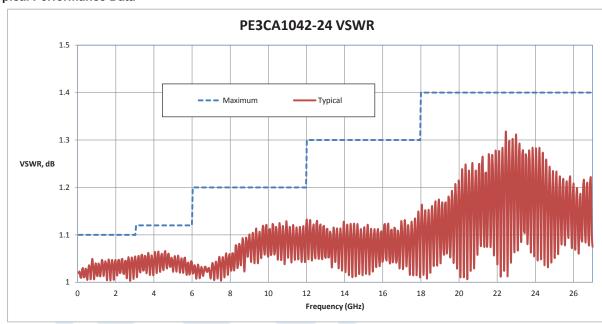
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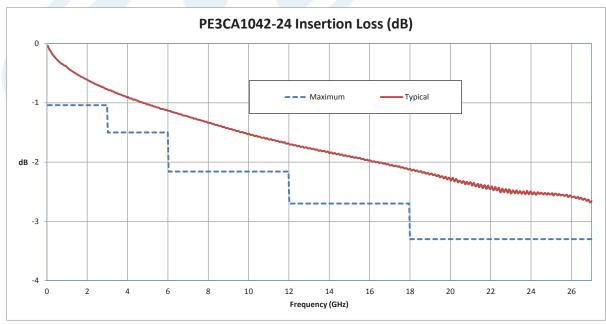


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Typical Performance Data





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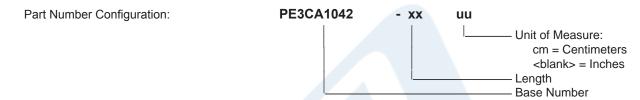
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How to Order



Example: PE3CA1042-12 = 12 inches long cable PE3CA1042-100cm = 100 cm long cable

SMA Male to SMA Female Bulkhead 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: http://www.pasternack.com/sma-male-sma-female-pe-086flex-cable-assembly-pe3ca1042-p.aspx

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