



RF Cable Assemblies Technical Data Sheet

PE3CA1050-12

Configuration

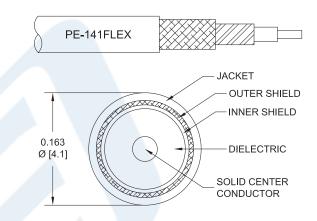
• Connector 1: N Female Bulkhead

Connector 2: N Male

• Cable Type: PE-141FLEX

Features

- Design operates to 18 GHz
- Shielding effectivity > 90dB
- One time minimum bend radius: 0.4 inch
- Typical N Type VSWR 1.31:1 to 18 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		18	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: N Female Bulkhead to N Male Cable 12 Inch Length Using PE-141FLEX Coax, RoHS PE3CA1050-12

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Operating Voltage (AC)	335	Vrms

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	3	6	12	18		GHz
Insertion Loss (Max.)	0.45	0.65	0.95	1.19		dB
VSWR (Max.)	1.18:1	1.25:1	1.3:1	1.4:1		
Power Handling (Max.)	215	150	105	88		Watts

Mechanical Specifications

Cable Assembly

Length 12 in [304.8 mm]
Weight 0.19 lbs [86.18 g]

Cable

Cable Type

Impedance

Inner Conductor Type

Inner Conductor Material and Plating

Dielectric Type Number of Shields Shield Layer 1 Shield Layer 2 Jacket Material Jacket Diameter

One Time Minimum Bend Radius Repeated Minimum Bend Radius

PE-141FLEX 50 Ohms Solid

Copper Clad Steel, Silver

PTFE

2

Silver Plated Copper Tape Silver Plated Copper Braid

FEP

0.163 in [4.14 mm]

0.39 in [9.91 mm] 1.57 in [39.88 mm]

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Connectors

Description	Connector 1	Connector 2 N Male	
Туре	N Female Bulkhead		
Impedance	50 Ohms	50 Ohms	
Mating Cycles	500	500	
Contact Material and Plating	Beryllium Copper, Gold	Brass, Gold	
Dielectric Type	PTFE	PTFE	
Coupling Nut Material and Plating	Brass, Nickel	Brass, Nickel	
Hex Size		3/4 Inch	
Body Material and Plating	Brass, Nickel	Brass, Nickel	

Environmental Specifications

Temperature

Operating Range -40 to +150 deg C

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

RoHS Compliant Yes

REACH Compliant 12/17/2015

Plotted and Other Data

Notes:

· Values at 25°C, sea level.

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PE3CA1050-12 REV 1.1



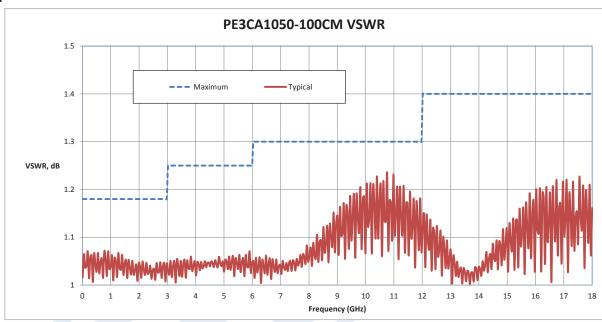


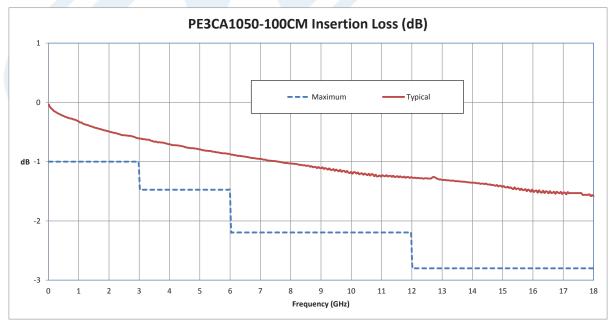


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Typical Performance Data





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ISO 9001 : 2008 Registered





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How to Order



Example: PE3CA1050-12 = 12 inches long cable PE3CA1050-100cm = 100 cm long cable

N Female Bulkhead to N Male Cable 12 Inch Length 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% availability and are part of the broadest selection in the industry.

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URL: http://www.pasternack.com/n-female-n-male-pe-141flex-cable-assembly-pe3ca1050-12-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.



PE3CA1050-12 CAD Drawing
N Female Bulkhead to N Male Cable 12 Inch Length Using PE-141FLEX Coax, RoHS

