



### RF Cable Assemblies Technical Data Sheet

ET29024

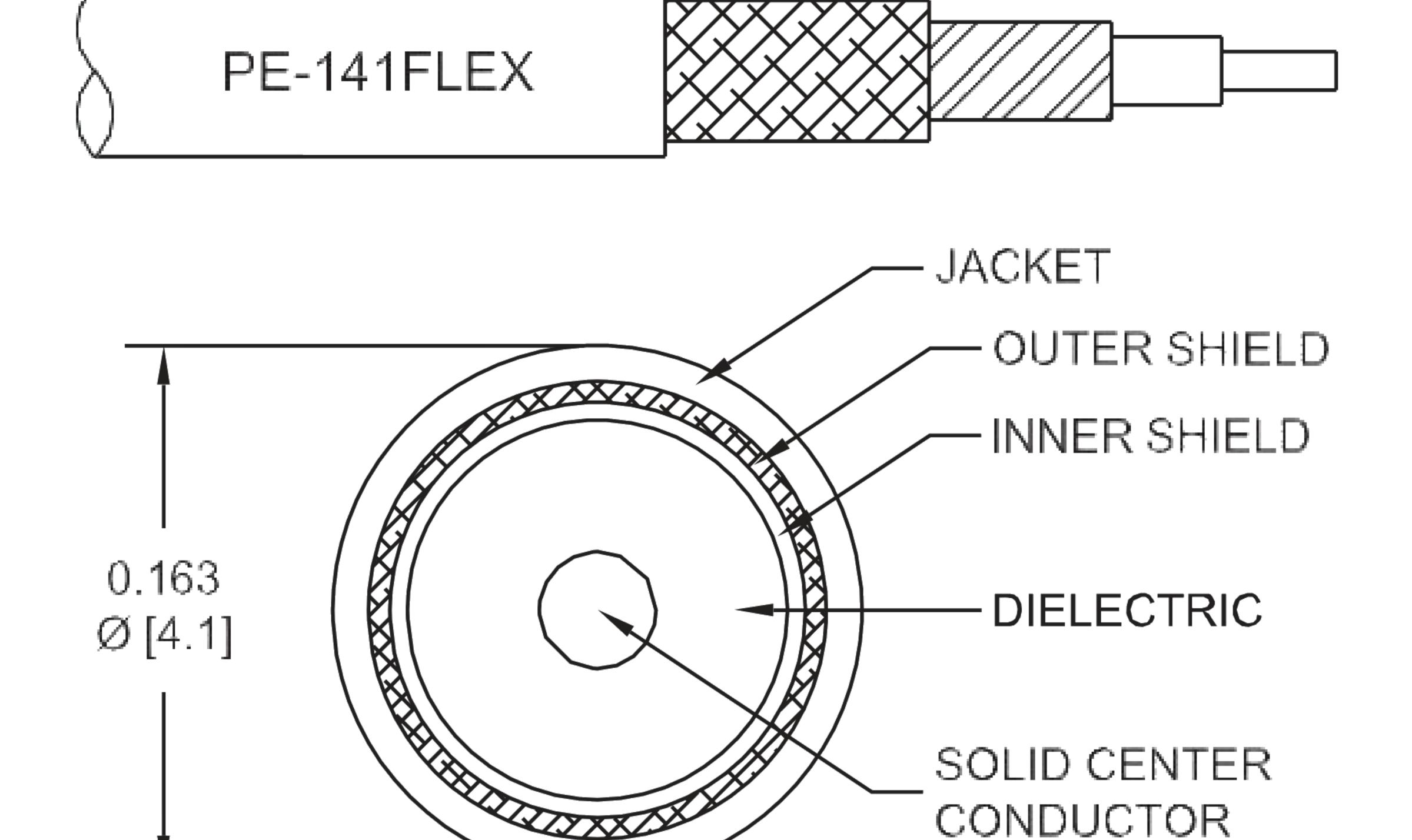
# Configuration

Connector 1: N Female Bulkhead

Connector 2: N Male
Cable Type: ET-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 ET-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 ET30X series which have retractable coupling nuts and thick wall SMA connectors. The heavier duty ET35X 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 ET35X cables for use in more demanding test environments.

ET-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 (ET-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 36 Inch Length Using ET-141FLEX Coax, RoHS ET29024





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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.)	0.93	1.37	2.04	2.6		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 36 in [914.4 mm] Weight 0.25 lbs [113.4 g]

#### Cable

Cable Type ET-141FLEX 50 Ohms Impedance Inner Conductor Type Solid

Inner Conductor Material and Plating Copper Clad Steel, Silver

Dielectric Type Number of Shields Silver Plated Copper Tape Shield Layer 1 Silver Plated Copper Braid Shield Layer 2 Jacket Material FEP 0.163 in [4.14 mm] Jacket Diameter

One Time Minimum Bend Radius 0.39 in [9.91 mm] Repeated Minimum Bend Radius 1.57 in [39.88 mm]

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#### Connectors

Description	Connector 1	Connector 2
Туре	N Female Bulkhead	N Male
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 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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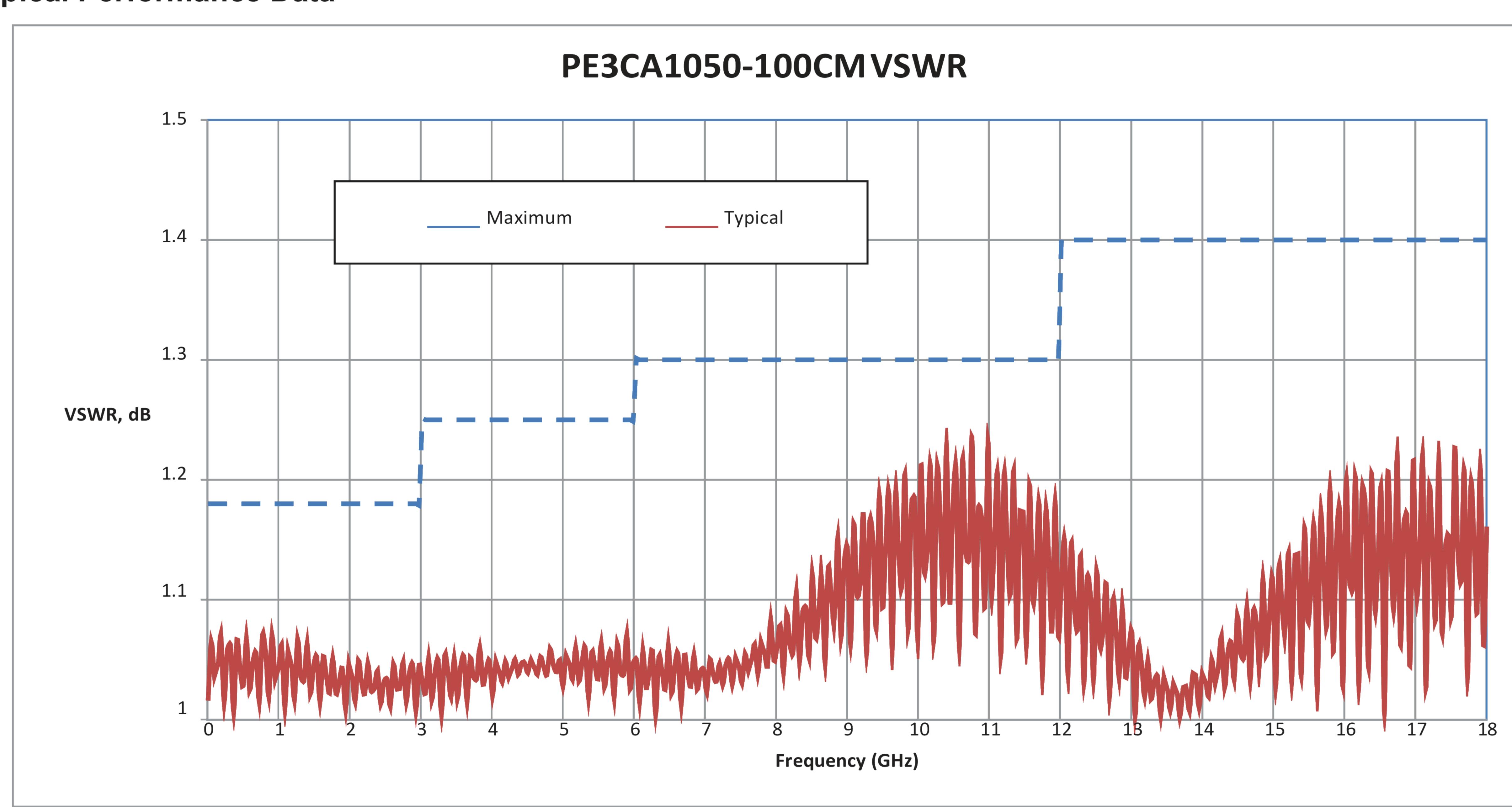


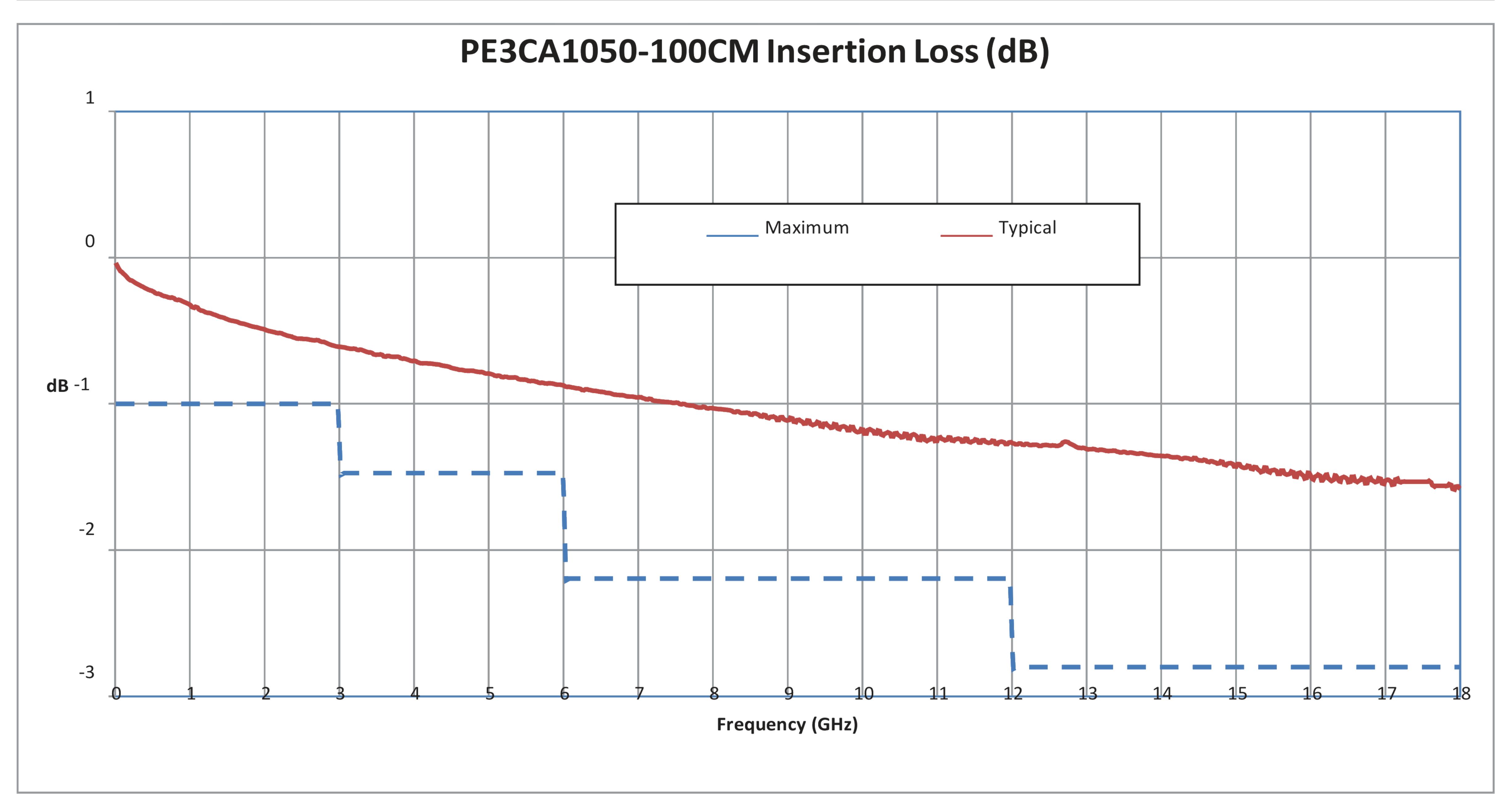


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## Typical Performance Data





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#### How to Order

Part Number Configuration:

ET3CA1050 - xx uu

Unit of Measure:

cm = Centimeters

<br/>
<br/>
<br/>
<br/>
chlank> = Inches

Base Number

Example: ET3CA1050-12 = 12 inches long cable

ET3CA1050-100cm = 100 cm long cable

N Female Bulkhead to N Male Cable 36 Inch Length Using ET-141FLEX Coax, RoHS from Ebeestock 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.ebeestock.com/n-female-bulkhead-to-n-male-cable-12-inch-length-using-pe-141fle x-coax-rohs-0029022

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. Ebeestock reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Ebeestock does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Ebeestock does not assume any liability arising out of the use of any part or documentation.

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# ET29024 CAD Drawing

N Female Bulkhead to N Male Cable 36 Inch Length Using ET-141FLEX Coax, RoHS

N Female Bulkhead to N Male Cable 36 Inch Length Using ET-14 1FLEX Coax, RoHS

