



Handheld RF Analyzer Rugged Phase Stable  
Cable 3.5mm Male to 3.5mm Female Cable 100 cm  
Length Using PE-FF430 Coax, RoHS

## RF Cable Assemblies Technical Data Sheet

PE3C4012-100CM

### Configuration

- Connector 1: 3.5mm Male
- Connector 2: 3.5mm Female
- Cable Type: PE-FF430

### Features

- Excellent VSWR and Insertion Loss
- Excellent Amplitude and Phase Stability with Flexure
- Rugged Armor provides crush and torque resistance
- UV resistant jacket
- Each serialized assembly includes test data
- In stock and ready to ship



### Applications

- Field Testing
- Tower Measurements
- Base Station Analyzers
- Handheld Network Analyzers
- Portable Spectrum Analyzers
- Distance-To-Fault Measurements
- Site Maintenance

### Description

Pasternack's Handheld RF Analyzer Phase Stable cable assemblies are designed for use with portable and handheld network analyzers, spectrum analyzers and base station analyzers. These rugged portable analyzer cable assemblies offer a unique combination of low loss, phase stability, low VSWR and durability. The tough analyzer cable armor offers crush resistance, torque resistance, water resistance and UV resistance while still maintaining a high level of flexibility. These rugged handheld analyzer cable assemblies are compatible with Fieldfox®, Site Master, CellAdvisor® and Sitehawk® analyzers, supporting site maintenance, field testing, antenna testing and distance-to-fault measurements.

### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		27	GHz
VSWR			1.3:1	
Phase Stability with Flexure			4	Degrees
Amplitude Stability with Flexure			0.2	dB

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Handheld RF Analyzer Rugged Phase Stable Cable 3.5mm Male to 3.5mm Female Cable 100 cm Length Using PE-FF430 Coax, RoHS PE3C4012-100CM](#)



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### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	12	18	27			GHz
Insertion Loss (Max.)	2.06	2.66	3.46			dB
Power Handling (Max.)	114	85	62			Watts

Electrical Specification Notes:  
 Values at 25°C, sea level.

### Mechanical Specifications

#### Cable Assembly

Length\* 39.37 in [100 cm]

#### Cable

Cable Type PE-FF430  
 Impedance 50 Ohms  
 Inner Conductor Type Solid  
 Inner Conductor Material and Plating Copper, Silver  
 Dielectric Type PTFE  
 Number of Shields 6  
 Shield Layer 1 Silver Plated Copper Tape  
 Shield Layer 2 Metalized Polyimide  
 Shield Layer 3 Silver Plated Copper Braid  
 Jacket Material TPE  
 Jacket Diameter 0.43 in [10.92 mm]

One Time Minimum Bend Radius 1.5 in [38.1 mm]  
 Flat Plate Crush 1,200 lbs/in [21.43 Kg/mm]

#### Connectors

Description	Connector 1	Connector 2
Type	3.5mm Male	3.5mm Female
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating		Passivated Stainless Steel
Body Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel
Coupling Nut Material and Plating	Passivated Stainless Steel	

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### Mechanical Specification Notes:

\*All cable assemblies have a length tolerance of 1.5% or  $\pm 3/8"$ , whichever is greater.

Fieldfox® is a registered trademark of Keysight Technologies

CellAdvisor® is a registered trademark of Viavi Solutions

SiteHawk® is a registered trademark of Bird Technologies

### Environmental Specifications

#### Temperature

Operating Range

-55 to +105 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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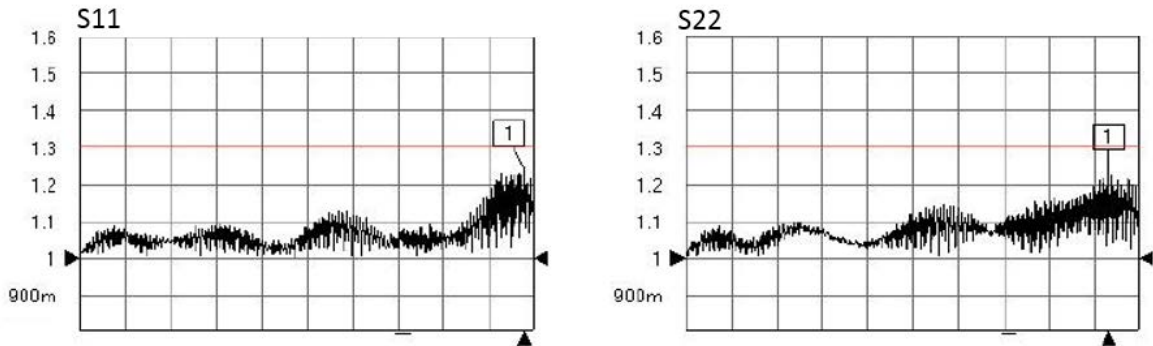
Handheld RF Analyzer Rugged Phase Stable  
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RF Cable Assemblies Technical Data Sheet

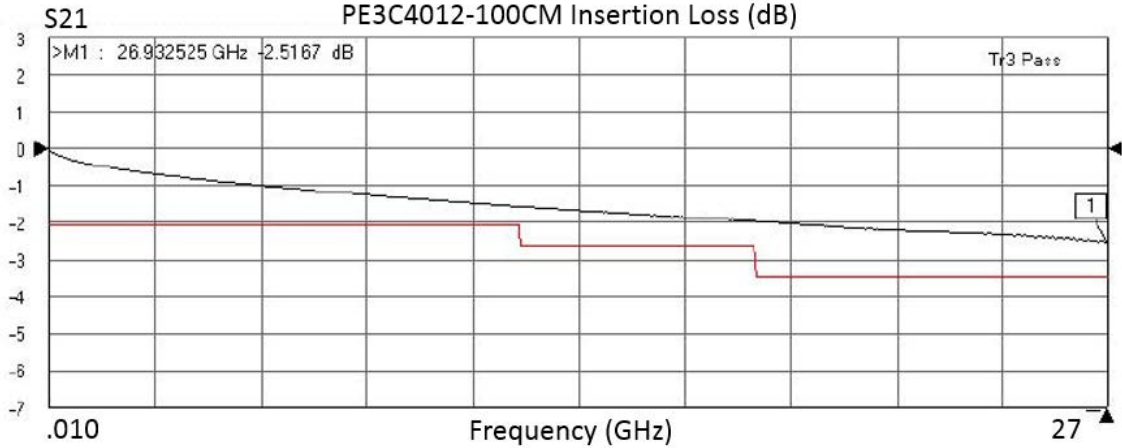
PE3C4012-100CM

Typical Performance Data

PE3C4012-100 VSWR



PE3C4012-100CM Insertion Loss (dB)



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PE3C4012-100CM

### How to Order

Part Number Configuration:

**PE3C4012**

- **xx**

**uu**

Unit of Measure:  
cm = Centimeters  
<blank> = Inches  
Length  
Base Number

Example: PE3C4012-12 = 12 inches long cable  
PE3C4012-100cm = 100 cm long cable

Handheld RF Analyzer Rugged Phase Stable Cable 3.5mm Male to 3.5mm Female Cable 100 cm Length Using PE-FF430 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.

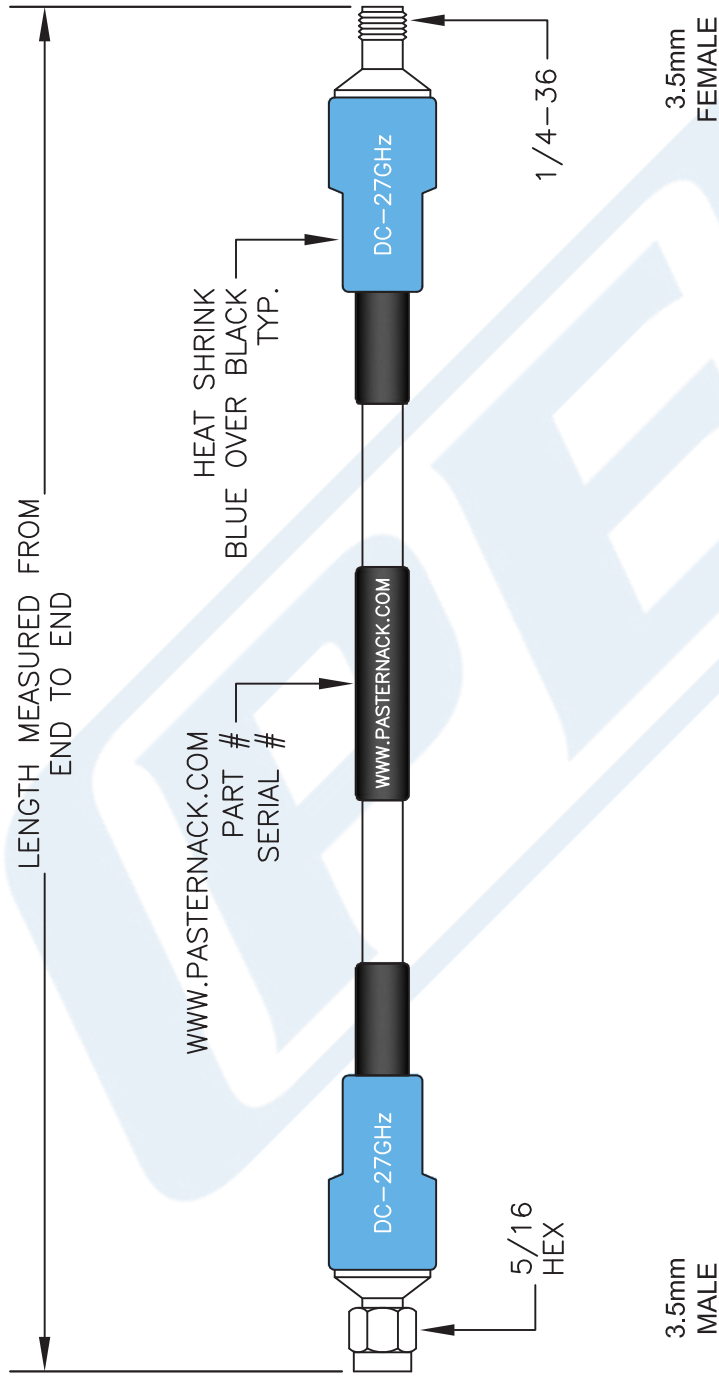
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The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. 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.

# PE3C4012-100CM CAD Drawing

Handheld RF Analyzer Rugged Phase Stable Cable 3.5mm Male to 3.5mm Female Cable 100 cm Length Using PE-FF430 Coax, RoHS



DWG TITLE

**PE3C4012**

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 ± 2%

CAGE CODE 53919

CAD FILE 041717

SCALE N/A

SIZE A

2233



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