



## SMA Male to Violet FAKRA Plug Cable Using RG174 Coax

### RF Cable Assemblies Technical Data Sheet

**PE39197H**

#### Configuration

- Connector 1: SMA Male
- Connector 2: FAKRA Plug
- Cable Type: RG174

#### Electrical Specifications

| Description             | Minimum | Typical       | Maximum | Units        |
|-------------------------|---------|---------------|---------|--------------|
| Frequency Range         | DC      |               | 1,000   | MHz          |
| VSWR                    |         |               | 1.4:1   |              |
| Velocity of Propagation |         | 66            |         | %            |
| Capacitance             |         | 30.8 [101.05] |         | pF/ft [pF/m] |

#### Specifications by Frequency

| Description           | F1    | F2     | F3     | F4     | F5     | Units |
|-----------------------|-------|--------|--------|--------|--------|-------|
| Frequency             | 50    | 100    | 250    | 500    | 1,000  | MHz   |
| Insertion Loss (Typ.) |       |        |        |        |        | dB/m  |
|                       | 0.242 | 0.284  | 0.337  | 0.412  | 0.52   | dB/ft |
|                       | 0.79  | 0.93   | 1.11   | 1.35   | 1.71   | dB/m  |
| VSWR (Max.)           | 1.4:1 | 1.4:1  | 1.4:1  | 1.4:1  | 1.4:1  |       |
| Return Loss (Max.)    | 15.56 | 15.563 | 15.563 | 15.563 | 15.563 | dB    |

#### Mechanical Specifications

##### Cable Assembly

|          |                    |
|----------|--------------------|
| Diameter | 0.37 in [9.4 mm]   |
| Weight   | 0.022 lbs [9.98 g] |

##### Cable

|                                      |                   |
|--------------------------------------|-------------------|
| Cable Type                           | RG174             |
| Impedance                            | 50 Ohms           |
| Inner Conductor Type                 | Stranded          |
| Inner Conductor Material and Plating | Copper Clad Steel |
| Dielectric Type                      | PE (LD)           |

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 Violet FAKRA Plug Cable Using RG174 Coax PE39197H](#)



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|                   |                     |
|-------------------|---------------------|
| Number of Shields | 1                   |
| Shield Layer 1    | Tinned Copper Braid |
| Jacket Material   | PVC, Black          |
| Jacket Diameter   | 0.1 in [2.54 mm]    |

#### Connectors

| Description                          | Connector 1        | Connector 2           |
|--------------------------------------|--------------------|-----------------------|
| Type                                 | SMA Male           | FAKRA Plug            |
| Specification                        | MIL-STD-348A       |                       |
| Impedance                            | 50 Ohms            | 50 Ohms               |
| Configuration                        | Straight           | Straight              |
| Contact Material and Plating         | Brass, Gold        | Phosphor Bronze, Gold |
| Contact Plating Specification        | 30µ in. Minimum    |                       |
| Dielectric Type                      | PTFE               | Teflon                |
| Outer Conductor Material and Plating |                    | Brass, Nickel         |
| Body Material and Plating            | Brass, Nickel      | Plastic               |
| Body Plating Specification           | 100µ in. Minimum   |                       |
| Coupling Nut Material and Plating    | Brass, Nickel      |                       |
| Coupling Nut Plating Specification   | 100µ in. Minimum   |                       |
| Hex Size                             | 5/16 in            |                       |
| Torque                               | 5 in-lbs [0.57 Nm] |                       |

#### Mechanical Specification Notes:

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

#### Compliance Certifications (see [product page](#) for current document)

#### Plotted and Other Data

##### Notes:

- Values at 25°C, sea level.

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## SMA Male to Violet FAKRA Plug Cable Using RG174 Coax

### RF Cable Assemblies Technical Data Sheet

**PE39197H**

#### How to Order

Part Number Configuration:

**PE39197H**

- **xx**

**uu**

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

Example: PE39197H-12 = 12 inches long cable  
PE39197H-100cm = 100 cm long cable

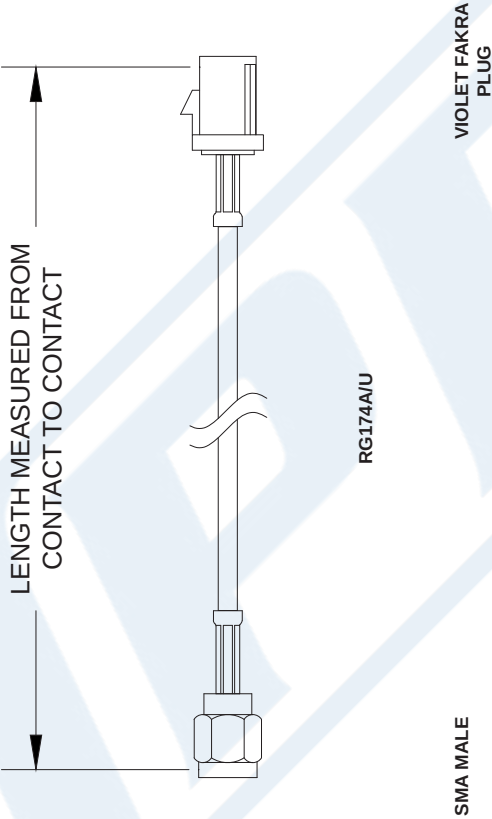
SMA Male to Violet FAKRA Plug Cable Using RG174 Coax from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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 Violet FAKRA Plug Cable Using RG174 Coax PE39197H](#)

URL: <https://www.pasternack.com/sma-male-fakra-plug-rg174au-cable-assembly-pe39197h-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.

PE39197H CAD Drawing  
SMA Male to Violet FAKRA Plug Cable Using RG174 Coax



| How To Order                                                                                                                                                      |                                                                                 |  | Part # Ext.                            | Length In Inches                                 | Part # Ext.                                          | Length In Centimeters                                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|--|----------------------------------------|--------------------------------------------------|------------------------------------------------------|---------------------------------------------------------|
| <b>Part Number Configuration</b><br>PE3 [zzz] [yy] - [xx] [uu]<br>00 - 99999<br>LF = RoHS Compliant<br>< Blank > = Standard<br>Note: LF applies only to RF cables | <b>Examples</b><br>PE3000LF-100<br>PE3000-100<br>PE3000LF-100CM<br>PE3000-100CM |  | -12<br>-24<br>-36<br>-48<br>-60<br>-xx | 12"<br>24"<br>36"<br>48"<br>60"<br>Custom Length | -25CM<br>-50CM<br>-75CM<br>-100CM<br>-125CM<br>-xxCM | 25Cm<br>50Cm<br>75Cm<br>100Cm<br>125Cm<br>Custom Length |

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- 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  $\pm 1.5\%$  OR  $3/8"$ , WHICHEVER IS GREATER.

DWG TITLE  
**PE39197H**

FSCM NO. 53919

CAD FILE 41613

SCALE N/A

SIZE A