



SMP Female to SMA Male Cable Using PE-047SR Coax

RF Cable Assemblies Technical Data Sheet

PE3W08729

Configuration

- Connector 1: SMP Female
- Connector 2: SMA Male
- Cable Type: PE-047SR

Features

- Max Frequency 8 GHz

Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W08729 SMP female to SMA male cable using PE-047SR coax is part of our full line of RF components available for same-day shipping. Pasternack's semi-rigid RF cable assemblies are ideal for high performance applications and can be formed, using proper tooling, to the routing pattern required. This Pasternack SMP to SMA cable assembly has a female to male gender configuration with 50 ohm semi-rigid PE-047SR coax. The PE3W08729 SMP female to SMA male cable assembly operates to 8 GHz.

Custom versions of most RF cable assemblies can be built and shipped same day. Custom cable assembly lengths can be obtained by specifying the desired length on the web site at time of order or by contacting a sales representative. Other available RF cable assembly value added services include connector orientation or clocking, heat shrink booting and custom labeling. RF testing can also be performed to document the electrical performance of your cable assembly.

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|-----------------|---------|---------|---------|-------|
| Frequency Range | DC | | 8 | GHz |
| VSWR | | | 1.4:1 | |

Specifications by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|------|------|-----|------|----|-------|
| Frequency | 1 | 2 | 4 | 8 | | GHz |
| Insertion Loss (Typ.) | 0.4 | 0.5 | 0.7 | 1.1 | | dB/ft |
| | 1.31 | 1.64 | 2.3 | 3.61 | | dB/m |

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB per connector.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMP Female to SMA Male Cable Using PE-047SR Coax PE3W08729](#)



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Mechanical Specifications

Cable Assembly

| | |
|--------------------------------------|---------------------------|
| Weight | 0.017 lbs [7.71 g] |
| Cable | |
| Cable Type | PE-047SR |
| Impedance | 50 Ohms |
| Inner Conductor Type | Solid |
| Inner Conductor Material and Plating | Copper Clad Steel, Silver |
| Dielectric Type | PTFE |
| Number of Shields | 1 |
| Outer Conductor Material and Plating | Copper |
| Repeated Minimum Bend Radius | 0.05 in [1.27 mm] |

Connectors

| Description | Connector 1 | Connector 2 |
|------------------------------------|------------------------|------------------------------------|
| Type | SMP Female | SMA Male |
| Specification | MIL-STD-348A | |
| Impedance | 50 Ohms | 50 Ohms |
| Mating Cycles | | 500 |
| Contact Material and Plating | Beryllium Copper, Gold | Beryllium Copper, Gold over Nickel |
| Contact Plating Specification | MIL-DTL-45204 | MIL-G-45204 |
| Dielectric Type | PTFE | PTFE |
| Body Material and Plating | Beryllium Copper, Gold | Brass, Gold |
| Body Plating Specification | MIL-DTL-45204 | MIL-G-45204 |
| Coupling Nut Material and Plating | | Passivated Stainless Steel |
| Coupling Nut Plating Specification | | ASTM-A380 |
| Hex Size | | 5/16 inch |
| Torque | | 8 in-lbs [0.9 Nm] |

Environmental Specifications

Temperature

Operating Range -55 to +100 deg C

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

Plotted and Other Data

Notes:

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How to Order

Part Number Configuration:

PE3W08729

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Unit of Measure:
cm = Centimeters
<blank> = Inches

Length

Base Number

Example: PE3W08729-12 = 12 inches long cable
PE3W08729-100cm = 100 cm long cable

SMP Female to SMA Male Cable Using PE-047SR 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: [SMP Female to SMA Male Cable Using PE-047SR Coax PE3W08729](#)

URL: <https://www.pasternack.com/smp-female-to-sma-male-cable-using-pe-047sr-pe3w08729-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.

PE3W08729 CAD Drawing
SMP Female to SMA Male Cable Using PE-047SR Coax

