



Mini SMP Female Right Angle to 2.92mm
Female Cable Using PE-047SR Coax

RF Cable Assemblies Technical Data Sheet

PE3W10335

Configuration

- Connector 1: Mini SMP Female Right Angle
- Connector 2: 2.92mm Female
- Cable Type: PE-047SR

Features

- Max Frequency 12 GHz

Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W10335 Mini SMP female right angle to 2.92mm female 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 Mini SMP to 2.92mm cable assembly has a female to female gender configuration with 50 ohm semi-rigid PE-047SR coax. The PE3W10335 Mini SMP female to 2.92mm female cable assembly operates to 12 GHz. The right angle Mini SMP interface on the PE-047SR cable allows for easier connections in tight spaces.

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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Mini SMP Female Right Angle to 2.92mm Female Cable Using PE-047SR Coax PE3W10335](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		12	GHz
VSWR			1.5:1	
DC Resistance Inner Conductor		6,000 [19,685.04]		$\Omega/1000\text{ft}$ [Ω/Km]
DC Resistance Outer Conductor		2,000 [6,561.68]		$\Omega/1000\text{ft}$ [Ω/Km]
Operating Voltage (AC)			325	Vrms
Dielectric Withstanding Voltage (AC)			2,000	Vrms

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	2.5	5	12	GHz
Insertion Loss (Typ.)	0.2	0.4	0.25	0.65	1.42	dB/ft
	0.66	1.31	0.82	2.13	4.66	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as $0.05 \times \text{SQRT}(\text{FGHz})\text{dB}$ for the Mini SMP right angle connector and 0.1 dB for the 2.92mm straight connector.

Mechanical Specifications

Cable Assembly

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]

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Connectors

Description	Connector 1	Connector 2
Type	Mini SMP Female Right Angle	2.92mm Female
Specification	MIL-STD-348A	
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold over Nickel
Contact Plating Specification		50 μ m minimum
Dielectric Type	PTFE	PEI
Outer Conductor Material and Plating	Beryllium Copper, Gold	
Body Material and Plating	Brass, Gold	Passivated Stainless Steel
Body Plating Specification		SAE-AMS-2700

Environmental Specifications

Temperature

Operating Range

-55 to +100 deg C

Humidity

MIL-STD-202, Method 106

Shock

MIL-STD-202, Method 213, Condition A

Vibration

MIL-STD-202, Method 204, Condition A

Thermal Shock

MIL-STD-202, Method 107, Condition B

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

Plotted and Other Data

Notes:

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How to Order

Part Number Configuration:

PE3W10335

- **xx**

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

Example: PE3W10335-12 = 12 inches long cable
PE3W10335-100cm = 100 cm long cable

Mini SMP Female Right Angle to 2.92mm Female 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.

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URL:

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.

PE3W10335 CAD Drawing

Mini SMP Female Right Angle to 2.92mm Female Cable Using PE-047SR Coax

