

2.4mm Male to SMA Male Cable Using PE-SR047FL Coax



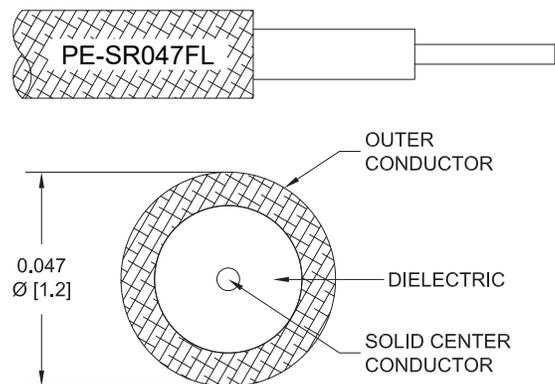
PE3W11138

Configuration

- Connector 1: 2.4mm Male
- Connector 2: SMA Male
- Cable Type: PE-SR047FL
- Coax Flex Type: Formable

Features

- Max Frequency 10 GHz
- 69.5% Phase Velocity
- 500 Mating Cycles



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W11138 2.4mm male to SMA male cable using PE-SR047FL coax is part of our full line of RF components available for same-day shipping. Pasternack's formable RF cable assemblies provide an alternative to costly pre-formed semi-rigid assemblies since they are hand formable. This Pasternack 2.4mm to SMA cable assembly has a male to male gender configuration with 50 ohm formable PE-SR047FL coax. The PE3W11138 2.4mm male to SMA male cable assembly operates to 10 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		10	GHz
VSWR			1.5:1	
Velocity of Propagation		69.5		%
Capacitance		32 [104.99]		pF/ft [pF/m]
DC Resistance Inner Conductor		207 [679.13]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		8 [26.25]		Ohms/1000ft [Ohms/Km]
Operating Voltage (AC)			170	Vrms
Dielectric Withstanding Voltage (AC)			500	Vrms

Specifications by Frequency

2.4mm Male to SMA Male Cable Using PE-SR047FL Coax



PE3W11138

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency		500	1000	2500	5000	
PE3W11138	Custom Lengths Available	Insertion Loss (Typ.)	0.25	0.36	0.578	0.86	1.28	dB/ft	
			0.83	1.19	1.9	2.83	4.2	dB/m	
PE3W11138-6	6 inch	Insertion Loss (Typ.)	0.33	0.38	0.49	0.63	0.84	dB	0.017
PE3W11138-9	9 inch	Insertion Loss (Typ.)	0.39	0.47	0.64	0.85	1.16	dB	0.018
PE3W11138-12	12 inch	Insertion Loss (Typ.)	0.45	0.56	0.78	1.06	1.48	dB	0.018
PE3W11138-24	24 inch	Insertion Loss (Typ.)	0.7	0.92	1.36	1.92	2.76	dB	0.021
PE3W11138-36	36 inch	Insertion Loss (Typ.)	0.95	1.28	1.94	2.78	4.04	dB	0.024

The insertion loss data for the base model does not include loss due to the connectors. Each length includes insertion loss due to the connectors.

Loss due to Connector 1:	0.1 dB
Loss due to Connector 2:	0.1 dB
Base Weight:	0.018 pounds
Additional Weight per Inch:	0.00025 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.018 lbs [8.16 g]

Cable

Cable Type	PE-SR047FL
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 1 Material and Plating	Tinned Copper Braid

2.4mm Male to SMA Male Cable Using PE-SR047FL Coax



PE3W11138

Connectors

Description	Connector 1	Connector 2
Type	2.4mm Male	SMA Male
Specification		MIL-STD-348
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Mating Cycles	500	500
Contact Material and Plating	Beryllium Copper, Gold over Nickel	Beryllium Copper, Gold over Nickel
Contact Plating Specification	50 µin minimum	50 µin minimum
Dielectric Type	PEI	PTFE
Body Material and Plating	Beryllium Copper, Gold over Nickel	Brass, Gold over Nickel
Body Plating Specification	50 µin minimum	50 µin minimum
Coupling Nut Material and Plating	Passivated Stainless Steel	Brass, Nickel
Coupling Nut Plating Specification	ASTM-A582	50 µin minimum
Hex Size	5/16 inch	5/16 inch
Torque	8 in-lbs 0.9 Nm	7 in-lbs 0.79 Nm
Seal Gasket Material	Silicone	

Environmental Specifications

Operating Range Temperature -40 to +100 deg C

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

Plotted and Other Data

Notes:

2.4mm Male to SMA Male Cable Using PE-SR047FL Coax



PE3W11138

Typical Performance Data

How to Order

Part Number Configuration: **PE3W11138 - xx uu**

PE3W11138: Base Number
 - xx: Length
 uu: Unit of Measure:
 cm = Centimeters
 <blank> = Inches

Example: PE3W11138-12 = 12 inches long cable
 PE3W11138-100cm = 100 cm long cable

2.4mm Male to SMA Male Cable Using PE-SR047FL 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.

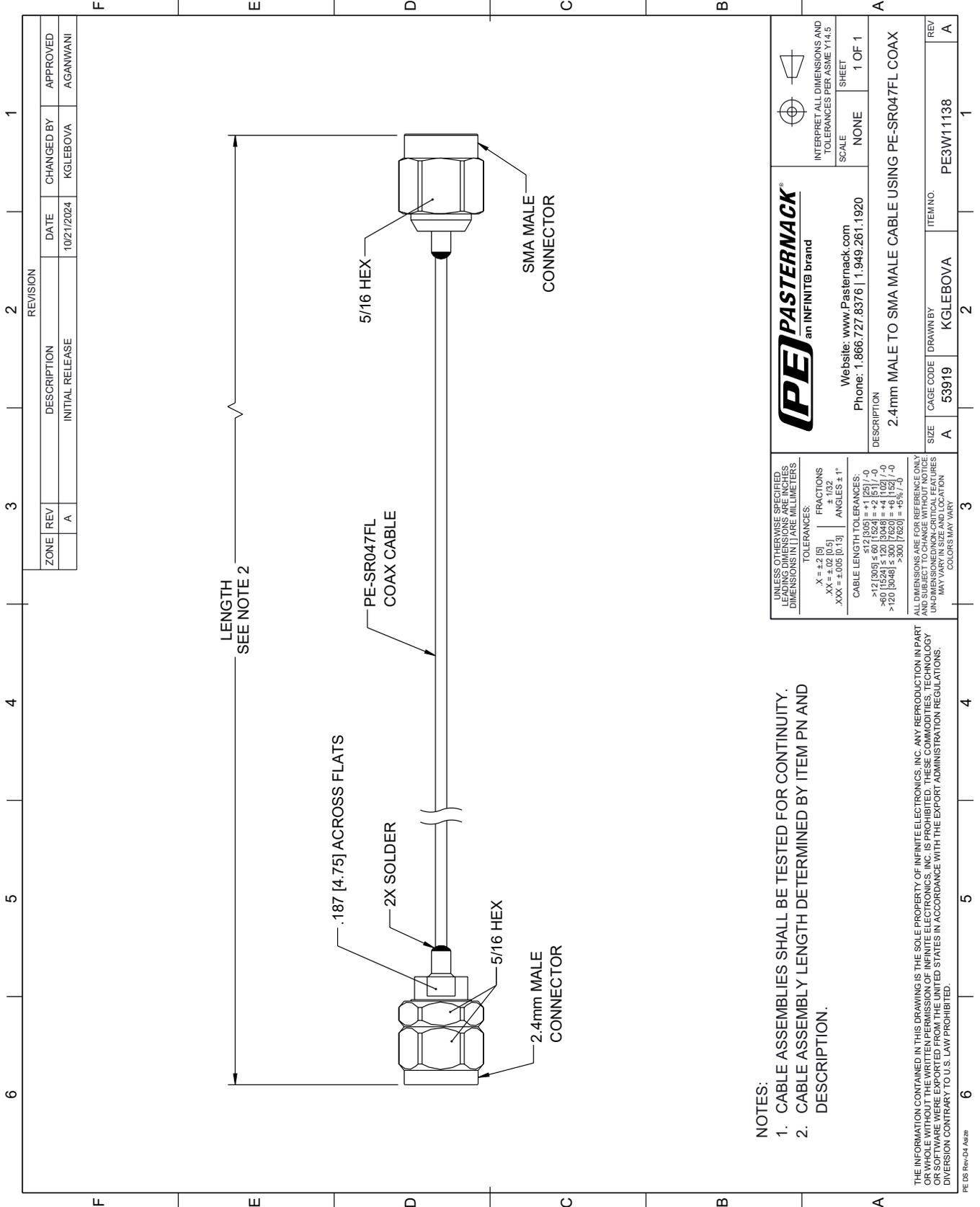
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [2.4mm Male to SMA Male Cable Using PE-SR047FL Coax PE3W11138](https://www.pasternack.com/2.4mm-male-to-sma-male-cable-using-pe-sr047fl-pe3w11138-p.aspx)

URL: <https://www.pasternack.com/2.4mm-male-to-sma-male-cable-using-pe-sr047fl-pe3w11138-p.aspx>

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

PE3W11138 CAD Drawing

2.4mm Male to SMA Male Cable Using PE-SR047FL Coax



REVISION		DATE	CHANGED BY	APPROVED
ZONE	REV	DESCRIPTION		
	A	INITIAL RELEASE	KGLEBOVA	AGANWANI

- NOTES:
- CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
 - CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.

UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES. DIMENSIONS IN [] ARE MILLIMETERS.

TOLERANCES:

.X = ±.2 [5]	FRACTIONS ± 1/32
.XX = ±.02 [0.5]	ANGLES ± 1°
.XXX = ±.005 [0.13]	

CABLE LENGTH TOLERANCES:

<12 [305]	±.1 [25]
>12 [305] ≤ 60 [1524]	±.2 [5]
>60 [1524] ≤ 120 [3048]	±.4 [102]
>120 [3048]	±.8 [20]

ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. DIMENSIONS IN [] ARE MILLIMETERS. COLORS MAY VARY.

PE PASTERNAK
an INFINITI® brand

Website: www.Pasternack.com
Phone: 1.866.727.8376 | 1.949.261.1920

SCALE: NONE
SHEET: 1 OF 1

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

DESCRIPTION: 2.4mm MALE TO SMA MALE CABLE USING PE-SR047FL COAX

SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	53919	KGLEBOVA	PE3W11138

REV A

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF INFINITE ELECTRONICS, INC. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF INFINITE ELECTRONICS, INC. IS PROHIBITED. THESE COMMODITIES, TECHNOLOGY OR SERVICES ARE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.

PE DS Rev-04 Add2