

2.92mm Male to SMA Male Cable 18 Inch Length Using PE-SR405FLJ Coax



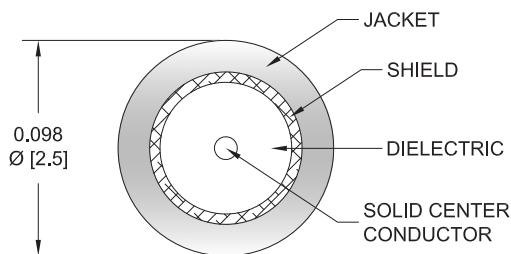
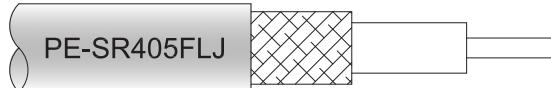
PE3W10531-18

Configuration

- Connector 1: 2.92mm Male
- Connector 2: SMA Male
- Cable Type: PE-SR405FLJ
- Coax Flex Type: Formable

Features

- Max Frequency 20 GHz
- Shielding Effectivity > 100 dB
- 69.5% Phase Velocity
- FEP Jacket
- 500 Mating Cycles



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W10531-18 2.92mm male to SMA male 18 inch cable using PE-SR405FLJ 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 2.92mm to SMA cable assembly has a male to male gender configuration with 50 ohm formable PE-SR405FLJ coax. The PE3W10531-18 2.92mm male to SMA male cable assembly operates to 20 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		20	GHz
VSWR			1.5:1	
Velocity of Propagation		69.5		%
RF Shielding	100			dB
Group Delay		1.43 [4.69]		ns/ft [ns/m]
Capacitance		29 [95.14]		pF/ft [pF/m]
Leakage		-90		dB
DC Resistance Inner Conductor		65.7 [215.55]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		10.2 [33.46]		Ohms/1000ft [Ohms/Km]
Operating Voltage (AC)			170	Vrms

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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Dielectric Withstanding Voltage (AC)			500	Vrms

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	4.5	9	20	GHz
Insertion Loss (Typ.)	0.42	0.73	1.07	1.49	2.23	dB

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of $0.04x\text{SQRT}(F\text{GHz})\text{dB}$ per connector.

Mechanical Specifications

Cable Assembly

Length	18 in [457.2 mm]
Width/Diameter	0.5 in [12.7 mm]
Weight	0.042 lbs [19.05 g]

Cable

Cable Type	PE-SR405FLJ
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 Composite Braid
Jacket Material	FEP, Black
Jacket Diameter	0.105 in [2.67 mm]
One Time Minimum Bend Radius	0.5 in [12.7 mm]
Repeated Minimum Bend Radius	0.787 in [19.99 mm]

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Connectors

Description	Connector 1	Connector 2
Type	2.92mm Male	SMA Male
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Mating Cycles	500	500
Contact Material and Plating	Beryllium Copper, Gold over Nickel	Beryllium Copper, Gold
Contact Plating Specification	50 μ in minimum	ASTM-B488
Dielectric Type	PCTFE	PTFE
Body Material and Plating	Passivated Stainless Steel	Beryllium Copper, Gold
Body Plating Specification	SAE-AMS-2700	ASTM-B488
Coupling Nut Material and Plating	Passivated Stainless Steel	Steel
Coupling Nut Plating Specification	SAE-AMS-2700	
Hex Size	5/16 inch	
Torque	8 in-lbs 0.9 Nm	7 in-lbs 0.79 Nm

Environmental Specifications

Operating Range Temperature	-55 to +125 deg C
Humidity	MIL-STD-202, Method 106, No Vibration
Shock	MIL-STD-202, Method 213, Condition I
Vibration	MIL-STD-202, Method 204, Condition D
Thermal Shock	MIL-STD-202, Method 107, Condition B
Salt Fog	MIL-STD-202, Method 101, Condition B (5%)

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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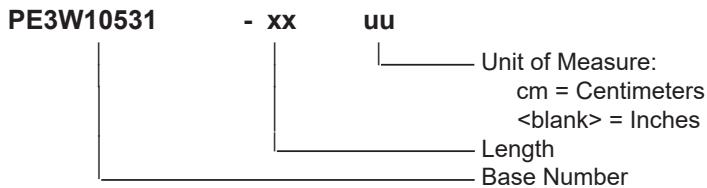


PE3W10531-18

Typical Performance Data

How to Order

Part Number Configuration:



Example: PE3W10531-12 = 12 inches long cable
PE3W10531-100cm = 100 cm long cable

2.92mm Male to SMA Male Cable 18 Inch Length Using PE-SR405FLJ 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: [2.92mm Male to SMA Male Cable 18 Inch Length Using PE-SR405FLJ Coax PE3W10531-18](#)

URL: <https://www.pasternack.com/2.92mm-male-to-sma-male-cable-18-inch-length-using-pe-sr405flj-pe3w10531-18-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.

PE3W10531-18 CAD Drawing

2.92mm Male to SMA Male Cable 18 Inch Length Using PE-SR405FLJ Coax

