

SMA Male Right Angle to SMA Male Cable Using PE-SR405FLJ Coax

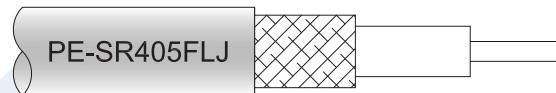


RF Cable Assemblies Technical Data Sheet

PE3W08890

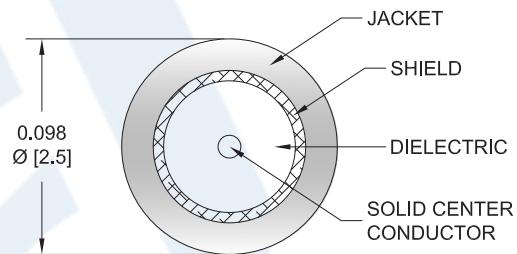
Configuration

- Connector 1: SMA Male Right Angle
- Connector 2: SMA Male
- Cable Type: PE-SR405FLJ



Features

- Max Frequency 12.4 GHz
- Shield Effectivity > 100 dB
- 69.5% Phase Velocity
- FEP Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W08890 SMA male right angle to SMA male 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 SMA to SMA cable assembly has a male to male gender configuration with 50 ohm formable PE-SR405FLJ coax. The PE3W08890 SMA male to SMA male cable assembly operates to 12.4 GHz. The right angle SMA interface on the PE-SR405FLJ 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: [SMA Male Right Angle to SMA Male Cable Using PE-SR405FLJ Coax PE3W08890](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		12.4	GHz
VSWR			1.4:1	
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]
DC Resistance Inner Conductor		65.7 [215.55]		Ω/1000ft [Ω/Km]
DC Resistance Outer Conductor		10.2 [33.46]		Ω/1000ft [Ω/Km]

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	2.5	5	12.4	GHz
Insertion Loss (Typ.)	0.15	0.225	0.346	0.549	0.905	dB/ft
	0.49	0.74	1.14	1.8	2.97	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.2 dB for the SMA Male right angle connector and $0.04 \times \text{SQRT}(F\text{GHz})\text{dB}$ for the SMA Male straight connector.

Mechanical Specifications

Cable Assembly

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 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	SMA Male Right Angle	SMA Male
Specification	MIL-STD-348A	
Impedance	50 Ohms	50 Ohms
Mating Cycles		500
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gold
Contact Plating Specification	50 μ in minimum	ASTM-B488
Dielectric Type	PTFE	PTFE
Body Material and Plating	Stainless Steel, Gold	Beryllium Copper, Gold
Body Plating Specification	30 μ in minimum	ASTM-B488
Coupling Nut Material and Plating	Brass, Nickel	Steel
Coupling Nut Plating Specification	100 μ in minimum	
Hex Size	5/16 inch	
Torque	3 in-lbs [0.34 Nm]	7 in-lbs [0.79 Nm]

Environmental Specifications

Temperature

-55 to +125 deg C

Operating Range
Shock
Vibration
Thermal Shock

MIL-STD-202, Method 213, Condition I

MIL-STD-202, Method 204, Condition D

MIL-STD-202, Method 107, Condition B

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

Plotted and Other Data

Notes:

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PE3W08890

How to Order

Part Number Configuration:

PE3W08890

- **xx**

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

Example: PE3W08890-12 = 12 inches long cable
PE3W08890-100cm = 100 cm long cable

SMA Male Right Angle to SMA Male Cable 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: [SMA Male Right Angle to SMA Male Cable Using PE-SR405FLJ Coax PE3W08890](#)

URL: <https://www.pasternack.com/sma-male-right-angle-to-sma-male-cable-using-pe-sr405flj-pe3w08890-p.aspx>

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PE3W08890 CAD Drawing

SMA Male Right Angle to SMA Male Cable Using PE-SR405FLJ Coax

NOTES:

1. CABLE ASSEMBLY LENGTH LABEL PLACEMENT:
36 INCHES OR LESS, ONE LABEL APPROXIMATELY CENTERED.
LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY 6 INCHES
FROM EACH CONNECTOR.
2. CABLES ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
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ZONE	REV.	DESCRIPTION	DATE	CHANGED BY	APPROVED BY
ZONE	A	INITIAL RELEASE	01/13/2023	KGLEBOVA	AGANWANI

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