

QMA Male Right Angle to QMA Male Right Angle Cable
Using PE-SR405FLJ Coax with HeatShrink

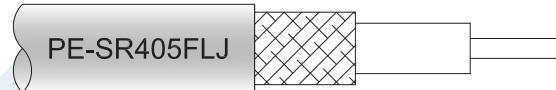


RF Cable Assemblies Technical Data Sheet

PE3W10796/HS

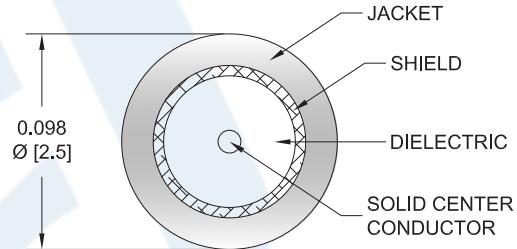
Configuration

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



Features

- Max Frequency 6 GHz
- Shield Effectivity > 100 dB
- 69.5% Phase Velocity
- FEP Jacket
- 100 Mating Cycles



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W10796/HS QMA male right angle to QMA male right angle 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 QMA to QMA cable assembly has a male to male gender configuration with 50 ohm formable PE-SR405FLJ coax. The PE3W10796/HS QMA male to QMA male cable assembly operates to 6 GHz. The right angle QMA interfaces on the PE-SR405FLJ cable allow 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: [QMA Male Right Angle to QMA Male Right Angle Cable Using PE-SR405FLJ Coax with HeatShrink PE3W10796/HS](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	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]
Operating Voltage (AC)			250	Vrms

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	2.5	6		GHz
Insertion Loss (Typ.)	0.15	0.225	0.346	0.601		dB/ft
	0.49	0.74	1.14	1.97		dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.2 dB per 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	QMA Male Right Angle	QMA Male Right Angle
Impedance	50 Ohms	50 Ohms
Mating Cycles	100	100
Contact Material and Plating	Brass, Gold	Brass, Gold
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Gold	Brass, Gold
Coupling Nut Material and Plating	Brass, Nickel	Brass, Nickel

Environmental Specifications

Temperature

Operating Range

-40 to +105 deg C

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

Plotted and Other Data

Notes:

- Values at 25° C, sea level

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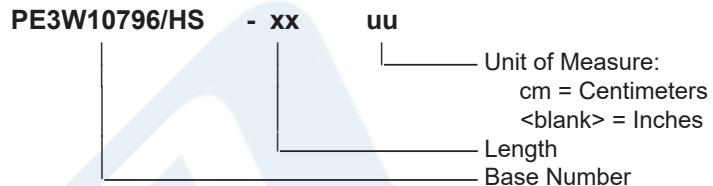
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PE3W10796/HS

How to Order

Part Number Configuration:



Example: PE3W10796/HS-12 = 12 inches long cable
PE3W10796/HS-100cm = 100 cm long cable

QMA Male Right Angle to QMA Male Right Angle Cable Using PE-SR405FLJ Coax with HeatShrink 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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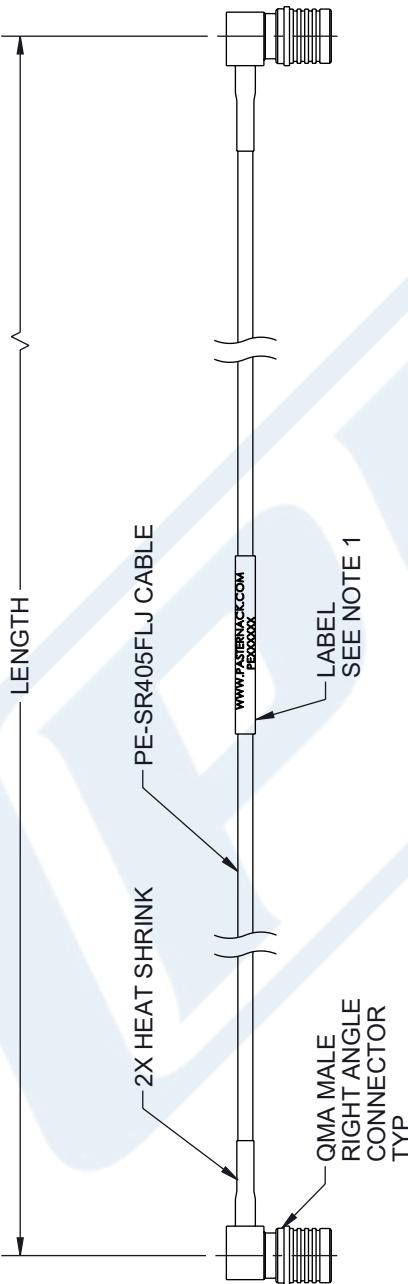
URL: <https://www.pasternack.com/qma-male-right-angle-to-qma-male-cable-using-pe-sr405flj-with-heatshrink-pe3w10796-hs-p.aspx>

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.

PE3W10796/HS CAD Drawing

QMA Male Right Angle to QMA Male Right Angle Cable Using PE-SR405FLJ Coax with HeatShrink

REVISION					
ZONE	REV.	DESCRIPTION	DATE	CHANGED BY	APPROVED BY
	A	INITIAL RELEASE	01/13/2023	KGLEBOVA	AGANWANI



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.
CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY

NOTES:

1

 PASTERNAK® an INFINITI® brand			
UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5	
TOLERANCES: $X = \pm 2$ [5] FRACTIONS $XXX = \pm 0.025$ [5] ± 1/32 $XXX = \pm 0.005$ [13] ANGLES ± 1°		SHEET NONE 1 OF 1	
CABLE LENGTH TOLERANCES: ± 1		DESCRIPTION QMA MALE RIGHT ANGLE TO QMA MALE RIGHT ANGLE CABLE USING PE-SR405FLJ COAX WITH HEATSTRIK	
≥ 12 [300] = ± 1 [25] -0	≥ 12 [300] = ± 1 [25] -0	SIZE A	REV A
≥ 90 [1524] = ± 0.5 [120] -0	≥ 90 [3048] = ± 0.5 [360] -0	CAGE CODE 53919	ITEM NO. PE3W10796/HS
<small>ALL DIMENSIONS ARE FOR REFERENCE ONLY AND ARE SUBJECT TO CHANGE WITHOUT NOTICE.</small>			