



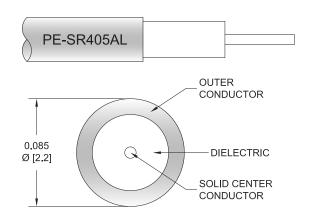
PE3C5640

Configuration

Connector 1: 2.4mm Male
Connector 2: 2.4mm Male
Cable Type: PE-SR405AL
Coax Flex Type: Semi-Rigid

Features

- Max Frequency 40 GHz
- · 500 Mating Cycles



Applications

· General Purpose

· Laboratory Use

Description

Pasternack's PE3C5640 2.4mm male to 2.4mm male cable using PE-SR405AL 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 2.4mm to 2.4mm cable assembly has a male to male gender configuration with 50 ohm semi-rigid PE-SR405AL coax. The PE3C5640 2.4mm male to 2.4mm male cable assembly operates to 40 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		40	
VSWR			1.4:1	
Dielectric Withstanding Voltage (AC)			1,000	Vrms

Specifications by Frequency





PE3C5640

Part Number	Length	Description	F1	F2	F3	F4	Units	Weight (lbs)
Part Number	Length	Frequency	2500	5000	10000	20000	MHz	weight (ibs)
PE3C5640	Custom Lengths	Insertion Loss (Typ.)	0.32	0.48	0.81	1.31	dB/ft	
F L3C3040	Available	ilisertion Loss (Typ.)	1.05	1.58	2.66	4.3	dB/m	
PE3C5640-6	6 inch	Insertion Loss (Typ.)	0.29	0.42	0.66	1.02	dB	0.023
PE3C5640-12	12 inch	Insertion Loss (Typ.)	0.45	0.66	1.07	1.67	dB	0.03
PE3C5640-18	18 inch	Insertion Loss (Typ.)	0.61	0.9	1.47	2.33	dB	0.038
PE3C5640-24	24 inch	Insertion Loss (Typ.)	0.77	1.14	1.88	2.98	dB	0.045
PE3C5640-36	36 inch	Insertion Loss (Typ.)	1.09	1.62	2.69	4.29	dB	0.059

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: 0.04 x sqrt(fGHz) dB
Loss due to Connector 2: 0.04 x sqrt(fGHz) dB
Base Weight: 0.03 pounds
Additional Weight per Inch: 0.00117 pounds

Mechanical Specifications

Cable Assembly

Weight 0.03 lbs [13.61 g]

Cable

Cable TypePE-SR405ALImpedance50 OhmsInner Conductor TypeSolidInner Conductor Material and PlatingCopper Clad Steel, SilverDielectric TypePTFE

Number of Shields

Outer Conductor 1 Material and Plating Tinned Aluminum Repeated Minimum Bend Radius 0.05 in [1.27 mm]





PE3C5640

Connectors

Description	Connector 1	Connector 2		
Туре	2.4mm Male	2.4mm 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 over Nickel		
Contact Plating Specification	50 μin minimum	50 μin minimum		
Dielectric Type	PEI	PEI		
Body Material and Plating	Beryllium Copper, Gold over Nickel	Beryllium Copper, Gold over Nickel		
Body Plating Specification	50 μin minimum	50 μin minimum		
Coupling Nut Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel		
Coupling Nut Plating Specification	ASTM-A582	ASTM-A582		
Hex Size	5/16 inch	5/16 inch		
Torque	8 in-lbs 0.9 Nm	8 in-lbs 0.9 Nm		

Environmental Specifications

Operating Range Temperature

-55 to +125 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:





PE3C5640

Typical Performance Data

How to Order



Example: PE3C5640-12 = 12 inches long cable

PE3C5640-100cm = 100 cm long cable

2.4mm Male to 2.4mm Male Cable Using PE-SR405AL 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 2.4mm Male Cable Using PE-SR405AL Coax PE3C5640

URL: https://www.pasternack.com/2.4mm-male-to-2.4mm-male-cable-using-pe-sr405al-pe3c5640-p.aspx

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