

3.5mm Male to SMA Male Cable Using PE-SR402FL Coax



RF Cable Assemblies Technical Data Sheet

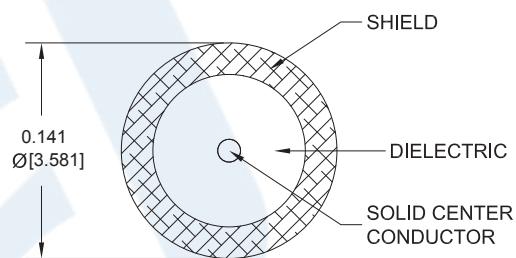
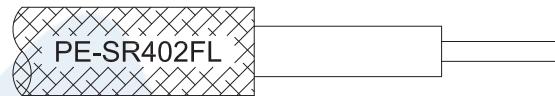
PE3W08848

Configuration

- Connector 1: 3.5mm Male
- Connector 2: SMA Male
- Cable Type: PE-SR402FL

Features

- Max Frequency 18 GHz
- Shielding Effectivity > 110 dB
- 69.5% Phase Velocity



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W08848 3.5mm male to SMA male cable using PE-SR402FL 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 3.5mm to SMA cable assembly has a male to male gender configuration with 50 ohm formable PE-SR402FL coax. The PE3W08848 3.5mm male to SMA male cable assembly operates to 18 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [3.5mm Male to SMA Male Cable Using PE-SR402FL Coax PE3W08848](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
VSWR			1.4:1	
Velocity of Propagation		69.5		%
RF Shielding	110			dB
Capacitance		29 [95.14]		pF/ft [pF/m]
DC Resistance Inner Conductor		7.8 [25.59]		Ω/1000ft [Ω/Km]
DC Resistance Outer Conductor		5.5 [18.04]		Ω/1000ft [Ω/Km]

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	4.5	9	18	GHz
Insertion Loss (Typ.)	0.12	0.162	0.268	0.418	0.65	dB/ft
	0.39	0.53	0.88	1.37	2.13	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB for the SMA male connector and 0.233 dB for the 3.5mm male connector.

Mechanical Specifications

Cable Assembly

Weight 0.042 lbs [19.05 g]

Cable

Cable Type PE-SR402FL
Impedance 50 Ohms
Inner Conductor Type Solid
Inner Conductor Material and Plating Copper, Silver
Dielectric Type PTFE
Number of Shields 1
Shield Layer 1 Tinned Copper Braid

Repeated Minimum Bend Radius 0.625 in [15.88 mm]

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Connectors

Description	Connector 1	Connector 2
Type	3.5mm Male	SMA Male
Impedance	50 Ohms	50 Ohms
Mating Cycles	500	
Contact Material and Plating	Beryllium Copper, Gold over Nickel	
Contact Plating Specification	50 μ in minimum	
Dielectric Type	PCTFE	
Body Material and Plating	Passivated Stainless Steel	Brass, Gold over Nickel
Body Plating Specification	SAE-AMS-2700	
Coupling Nut Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel
Coupling Nut Plating Specification	SAE-AMS-2700	
Hex Size	5/16 inch	5/16 inch
Torque	8 in-lbs [0.9 Nm]	8 in-lbs [0.9 Nm]

Environmental Specifications
Temperature

Operating Range

-55 to +125 deg C

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

Plotted and Other Data

Notes:

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PE3W08848

How to Order

Part Number Configuration:

PE3W08848

- **xx**

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

Example: PE3W08848-12 = 12 inches long cable
PE3W08848-100cm = 100 cm long cable

3.5mm Male to SMA Male Cable Using PE-SR402FL 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.

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URL: <https://www.pasternack.com/3.5mm-male-to-sma-male-cable-using-pe-sr402fl-pe3w08848-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.

PE3W08848 CAD Drawing

3.5mm Male to SMA Male Cable Using PE-SR402FL Coax

