

3.5mm Male to N Female Bulkhead Cable Using PE-SR402FL Coax

PE3C10090



Configuration

- Connector 1: 3.5mm Male
- Connector 2: N Female Bulkhead
- Cable Type: PE-SR402FL
- Coax Flex Type: Formable

Features

- Max Frequency 11 GHz
- Shielding Effectivity > 110 dB
- 69.5% Phase Velocity



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C10090 3.5mm male to type N female bulkhead 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 type N cable assembly has a male to female gender configuration with 50 ohm formable PE-SR402FL coax. The PE3C10090 3.5mm male to type N female cable assembly operates to 11 GHz. Our RF cable assembly with type N bulkhead interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications.

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		11	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]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		5.5 [18.04]		Ohms/1000ft [Ohms/Km]

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	500	1000	2500	5000	11000	MHz	
PE3C10090	Custom Lengths Available	Insertion Loss (Typ.)	0.08	0.12	0.183	0.29	0.475	dB/ft	
			0.27	0.4	0.61	0.96	1.56	dB/m	
PE3C10090-6	6 Inch	Insertion Loss (Typ.)	0.17	0.2	0.26	0.34	0.48	dB	0.111
PE3C10090-9	9 Inch	Insertion Loss (Typ.)	0.19	0.23	0.31	0.41	0.59	dB	0.117
PE3C10090-12	12 Inch	Insertion Loss (Typ.)	0.21	0.26	0.35	0.48	0.71	dB	0.123
PE3C10090-18	18 Inch	Insertion Loss (Typ.)	0.25	0.32	0.44	0.63	0.95	dB	0.136
PE3C10090-24	24 Inch	Insertion Loss (Typ.)	0.29	0.38	0.53	0.77	1.19	dB	0.149

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: 0.1 dB
 Loss due to Connector 2: $0.04 \times \sqrt{\text{FGHz}}$ dB
 Base Weight: 0.123 pounds
 Additional Weight per Inch: 0.00209 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter 0.5 in [12.7 mm]
 Weight 0.123 lbs [55.79 g]

Cable

Cable Type PE-SR402FL
 Impedance 50 Ohms
 Inner Conductor Type Solid
 Inner Conductor Material and Plating Copper, Silver
 Dielectric Type PTFE
 Outer Conductor 1 Material and Plating 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	N Female Bulkhead
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Mating Cycles	500	
Contact Material and Plating	Beryllium Copper, Gold over Nickel	Phosphor Bronze, Gold over Nickel
Contact Plating Specification	50 µin minimum	
Dielectric Type	PCTFE	PTFE
Body Material and Plating	Passivated Stainless Steel	Brass, Nickel
Body Plating Specification	SAE-AMS-2700	
Coupling Nut Material and Plating	Passivated Stainless Steel	
Coupling Nut Plating Specification	SAE-AMS-2700	
Hex Size	5/16 inch	
Torque	8 in-lbs 0.9 Nm	

Environmental Specifications

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

Plotted and Other Data

Notes:

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PE3C10090



Typical Performance Data

How to Order

Part Number Configuration: **PE3C10090** **- xx** **uu**

Unit of Measure:
cm = Centimeters
<blank> = Inches

Length

Base Number

Example: PE3C10090-12 = 12 inches long cable
PE3C10090-100cm = 100 cm long cable

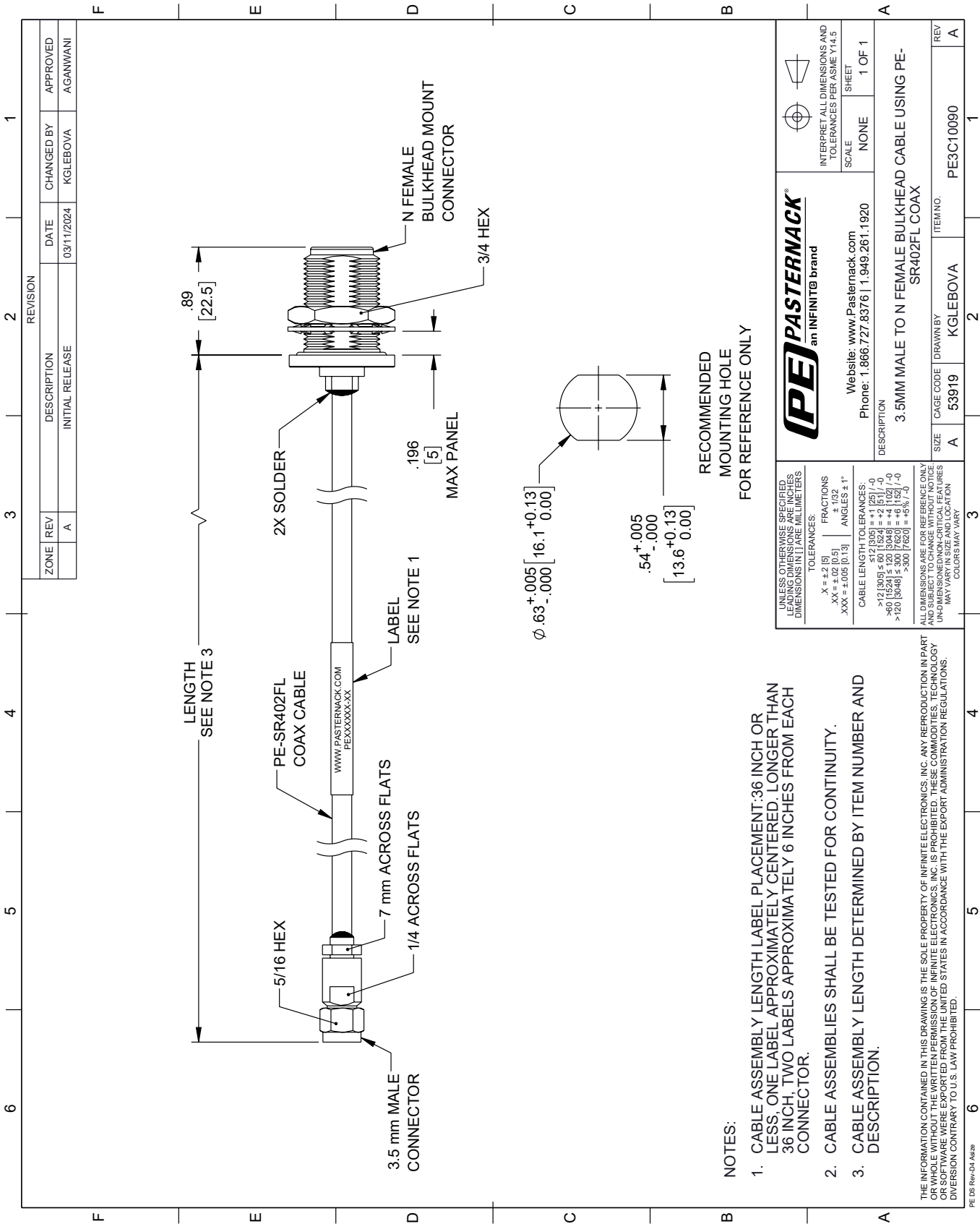
3.5mm Male to N Female Bulkhead Cable Using PE-SR402FL Coax from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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 N Female Bulkhead Cable Using PE-SR402FL Coax PE3C10090](#)

URL: <https://www.pasternack.com/3.5mm-male-to-n-female-bulkhead-cable-using-pe-sr402fl-pe3c10090-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.

PE3C10090 CAD Drawing
3.5mm Male to N Female Bulkhead Cable Using PE-SR402FL Coax



UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES. DIMENSIONS IN [] ARE IN MILLIMETERS.		PE PASTERNAK an INFINITE brand		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5	
TOLERANCES:		Website: www.Pasternack.com		SCALE: NONE	
X = +.2 [5]		Phone: 1.866.727.8376 1.949.261.1920		SHEET 1 OF 1	
.XX = ±.02 [0.5]		DESCRIPTION		3.5MM MALE TO N FEMALE BULKHEAD CABLE USING PE-SR402FL COAX	
.XXX = ±.005 [0.13]		CABLE LENGTH TOLERANCES:		SIZE A	
ANGLES ± 1°		>12 [305] ≤ 60 [1524] = +.1 [25] / -0		CAGE CODE 53919	
		>60 [1524] ≤ 120 [3048] = +.1 [25] / -0		DRAWN BY KGLEBOVA	
		>120 [3048] ≤ 300 [7620] = +.1 [25] / -0		ITEM NO. PE3C10090	
		>300 [7620] = +.1 [25] / -0		REV A	
ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. DIMENSIONS IN [] ARE IN MILLIMETERS. MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.					

NOTES:

- 1. CABLE ASSEMBLY LENGTH LABEL PLACEMENT: 36 INCH OR LESS, ONE LABEL APPROXIMATELY CENTERED. LONGER THAN 36 INCH, TWO LABELS APPROXIMATELY 6 INCHES FROM EACH CONNECTOR.
- 2. CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
- 3. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM NUMBER AND DESCRIPTION.

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