

4.3-10 Plug to 4.3-10 Plug Non-Magnetic Cable using 0.141 Semi Rigid Coax



PE3C9852

Configuration

- Connector 1: 4.3-10 Plug
- Connector 2: 4.3-10 Plug

Features

- Max Frequency 6 GHz
- 69.5% Phase Velocity
- Magnetic Susceptibility 10^{-5}
- VSWR of 1.4:1

Applications

- General Purpose
- Laboratory Use
- Medical
- Quantum Computing
- Military
- Aerospace

Description

Pasternack's PE3C9852 4.3-10 plug to 4.3-10 plug cable using PE-SR141-NM is part of our full line of RF components available for same-day shipping. This Pasternack 4.3-10 to 4.3-10 cable assembly has a plug to plug gender configuration with 50 ohm. The PE3C9852 4.3-10 plug to 4.3-10 plug cable assembly operates to 6 GHz. Pasternack's Non Magnetic connectors are manufactured with materials that are especially adapted to non magnetism. Our non-magnetic connectors have a higher magnetic susceptibility than existing standard connectors made of brass/nickel materials. As a result, our non-magnetic connectors are transparent to the magnetic field, which means no field distortion and a higher Signal-to-Noise Ratio (SNR).

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		6	GHz
VSWR			1.4:1	
Velocity of Propagation		69.5		%
Capacitance		29.4 [96.46]		pF/ft [pF/m]

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	2.5	6		GHz
Insertion Loss (Typ.)	0.07	0.11	0.17	0.31		dB/ft
	0.23	0.36	0.56	1.02		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

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Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.028 lbs [12.7 g]

Cable

Impedance	50 Ohms
Inner Conductor Material and Plating	SPC
Dielectric Type	PTFE

Connectors

Description	Connector 1	Connector 2
Type	4.3-10 Plug	4.3-10 Plug
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Brass, Silver	Brass, Silver
Body Material and Plating	Brass, Copper-Tin-Zinc Alloy	Brass, Copper-Tin-Zinc Alloy

Environmental Specifications

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

Plotted and Other Data

Notes:
Values at 25°C, sea level.

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PE3C9852

Typical Performance Data

How to Order

Part Number Configuration:

PE3C9852

- **xx**

uu

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

Example: PE3C9852-12 = 12 inches long cable
PE3C9852-100cm = 100 cm long cable

4.3-10 Plug to 4.3-10 Plug Non-Magnetic Cable using 0.141 Semi Rigid 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.

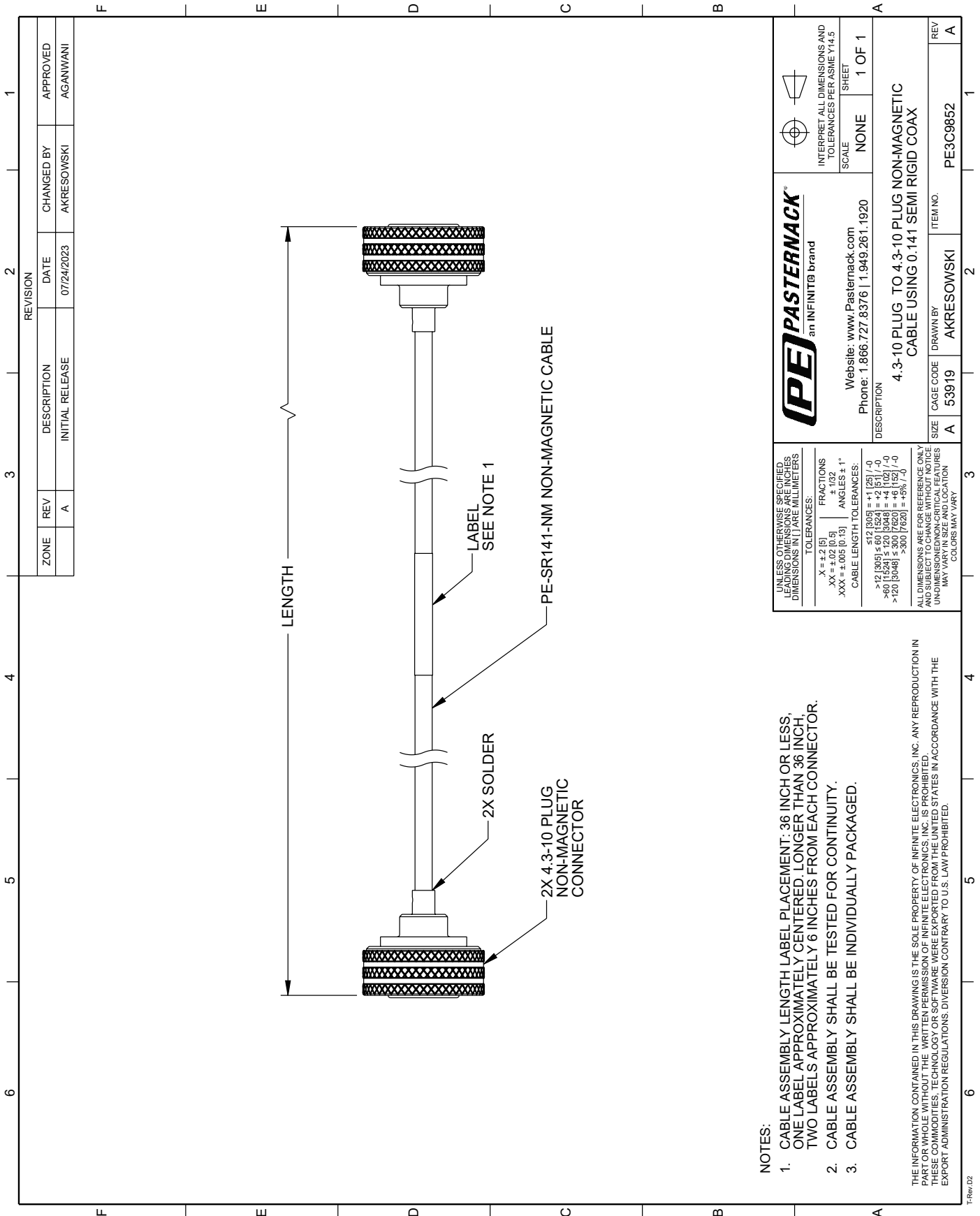
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [4.3-10 Plug to 4.3-10 Plug Non-Magnetic Cable using 0.141 Semi Rigid Coax PE3C9852](#)

URL: <https://www.pasternack.com/4.3-10-plug-to-4.3-10-plug-non-magnetic-cable-using-pe-sr141-nm-pe3c9852-p.aspx>

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PE3C9852 CAD Drawing

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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 ASSEMBLY SHALL BE TESTED FOR CONTINUITY.
3. CABLE ASSEMBLY SHALL BE INDIVIDUALLY PACKAGED.

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UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE INCHES, DIMENSIONS IN [] ARE MILLIMETERS	TOLERANCES: X = ±.2 [5] .XX = ±.02 [0.5] .XXX = ±.005 [0.13]	FRACTIONS ± 1/32	ANGLES ± 1°
CABLE LENGTH TOLERANCES: <12 [305] ≤ 60 [1524] = +1 [25] / -0 >60 [1524] ≤ 120 [3048] = +4 [102] / -0 >120 [3048] ≤ 300 [7620] = +6 [152] / -0 >300 [7620] = +9% [-]	ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE UNLESS OTHERWISE SPECIFIED IN DIMENSIONS MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.		

Website: www.Pasternack.com	Phone: 1.866.727.8376 1.949.261.1920	SCALE: NONE
DESCRIPTION: 4.3-10 PLUG TO 4.3-10 PLUG NON-MAGNETIC CABLE USING 0.141 SEMI RIGID COAX		SHEET: 1 OF 1
SIZE: A	CAGE CODE: 53919	REV: A
DRAWN BY: AKRESOWSKI	ITEM NO: PE3C9852	APPROVED BY: AGANWANI