

4.3-10 Plug to 4.3-10 Plug Non-Magnetic Cable using 0.141 Formable Coax



PE3C9858

Configuration

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

Features

- Max Frequency 6 GHz
- 70% Phase Velocity
- Magnetic Susceptibility 10^{-5}
- VSWR of 1.4:1

Applications

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

Description

Pasternack's PE3C9858 4.3-10 plug to 4.3-10 plug cable using PE-141FL-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 PE3C9858 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		70		%
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.)	0.11	0.16	0.24	0.43		dB/ft
	0.36	0.52	0.79	1.41		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 0.22 lbs [99.79 g]

Cable

Impedance 50 Ohms

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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PE3C9858

Typical Performance Data

How to Order

Part Number Configuration:

PE3C9858

- **xx**

uu

Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE3C9858-12 = 12 inches long cable
PE3C9858-100cm = 100 cm long cable

4.3-10 Plug to 4.3-10 Plug Non-Magnetic Cable using 0.141 Formable 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.

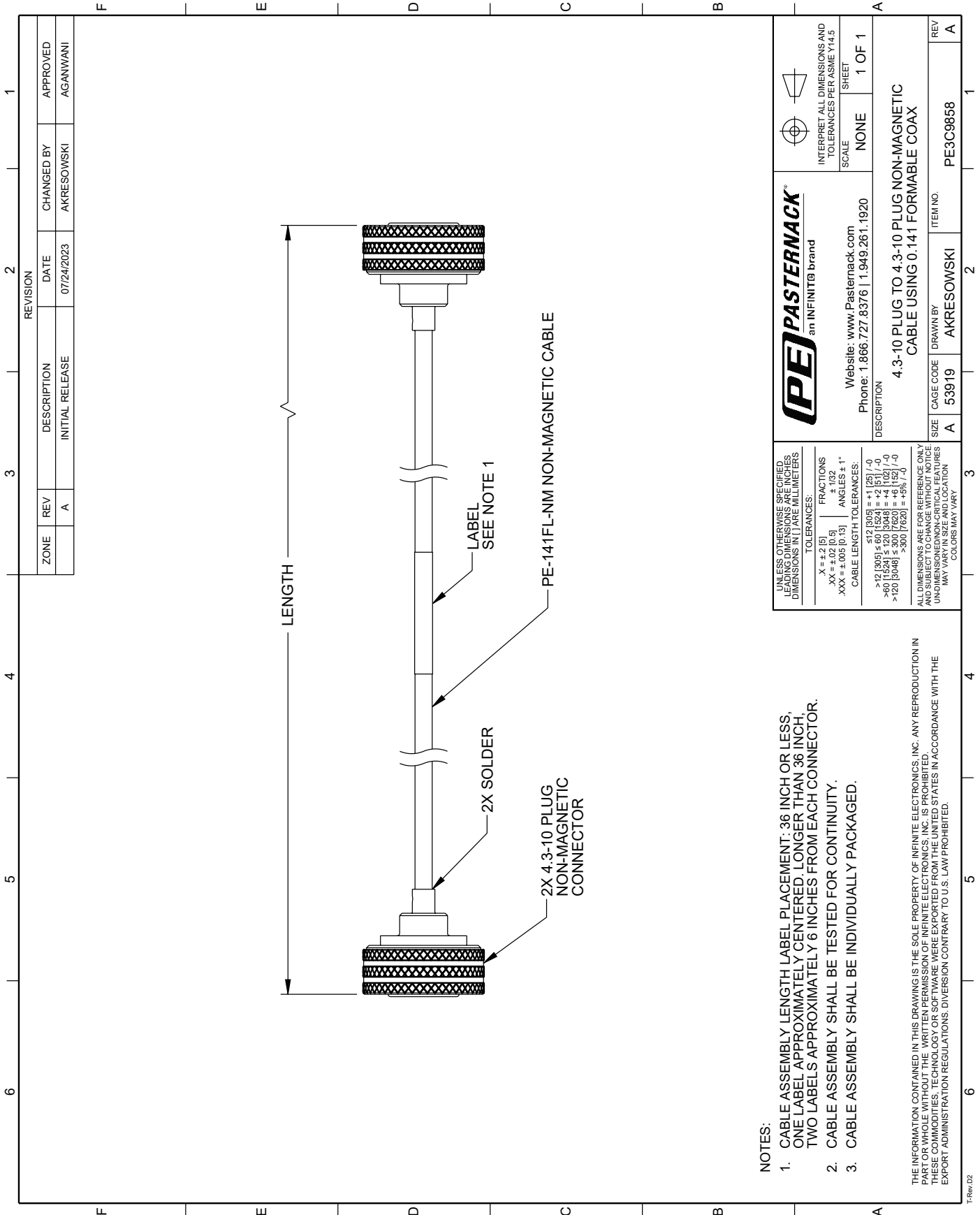
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [4.3-10 Plug to 4.3-10 Plug Non-Magnetic Cable using 0.141 Formable Coax PE3C9858](#)

URL: <https://www.pasternack.com/4.3-10-plug-to-4.3-10-plug-non-magnetic-cable-using-pe-141f-nm-pe3c9858-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.

PE3C9858 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% (-0)	ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE UNLESS OTHERWISE SPECIFIED. DIMENSIONS MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.		

PE PASTERNAK
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DESCRIPTION
4.3-10 PLUG TO 4.3-10 PLUG NON-MAGNETIC CABLE USING 0.141 FORMABLE COAX

SIZE A 53919 DRAWN BY AKRESOWSKI ITEM NO. PE3C9858

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5	SCALE NONE	SHEET 1 OF 1			
ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
	A	INITIAL RELEASE	07/24/2023	AKRESOWSKI	AGANWANI