Fairview Microwave
an INFINITE brand

FMCA9858
DATA SHEET

Non-Magnetic 4.3-10 Plug to 4.3-10 Plug Cable FM-141FL-NM Coax

The 4.3-10 plug to 4.3-10 plug cable using FM-141FL-NM, part number FMCA9858, from Fairview Microwave is in-stock and ships same day. This Fairview 4.3-10 to 4.3-10 cable assembly has a plug to plug gender configuration with 50 ohm. The FMCA9858 4.3-10 plug to 4.3-10 plug cable assembly operates to 6 GHz. Fairview Microwave Non Magnetic connectors are manufactured with materials that are especially adapted to non magnetism. Our non-magnetic connectors have a susceptibility of around 10^{-5}, as opposed to 10^{-2} for 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 RF cable assembly value added services including connector orientation or clocking, heat shrink booting and labeling are also available. RF testing can also be performed to document the electrical performance of your cable assembly.

Configuration:

- 4.3-10 Plug
- 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

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	DC		6	GHz
VSWR			1.4:1	
Velocity of Propagation		70		%
Capacitance		29.4 [96.46]		pF/ft [pF/m]

Performance 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

Mechanical Specifications

Cable Assembly

Cable

Impedance	50 Ohms

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Connectors

Description	Connector 1	Connector 2
Type	4.3-10 Plug Threaded	4.3-10 Plug Threaded
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Brass, Silver	Brass, Silver
Body Material & Plating	Brass, Copper-Tin-Zinc AlloyBrass, Copper-Tin-Zinc Alloy	

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

- Values at 25°C, sea level.

How to Order

Part Number Configuration: **FMCA9858 - xx uu**

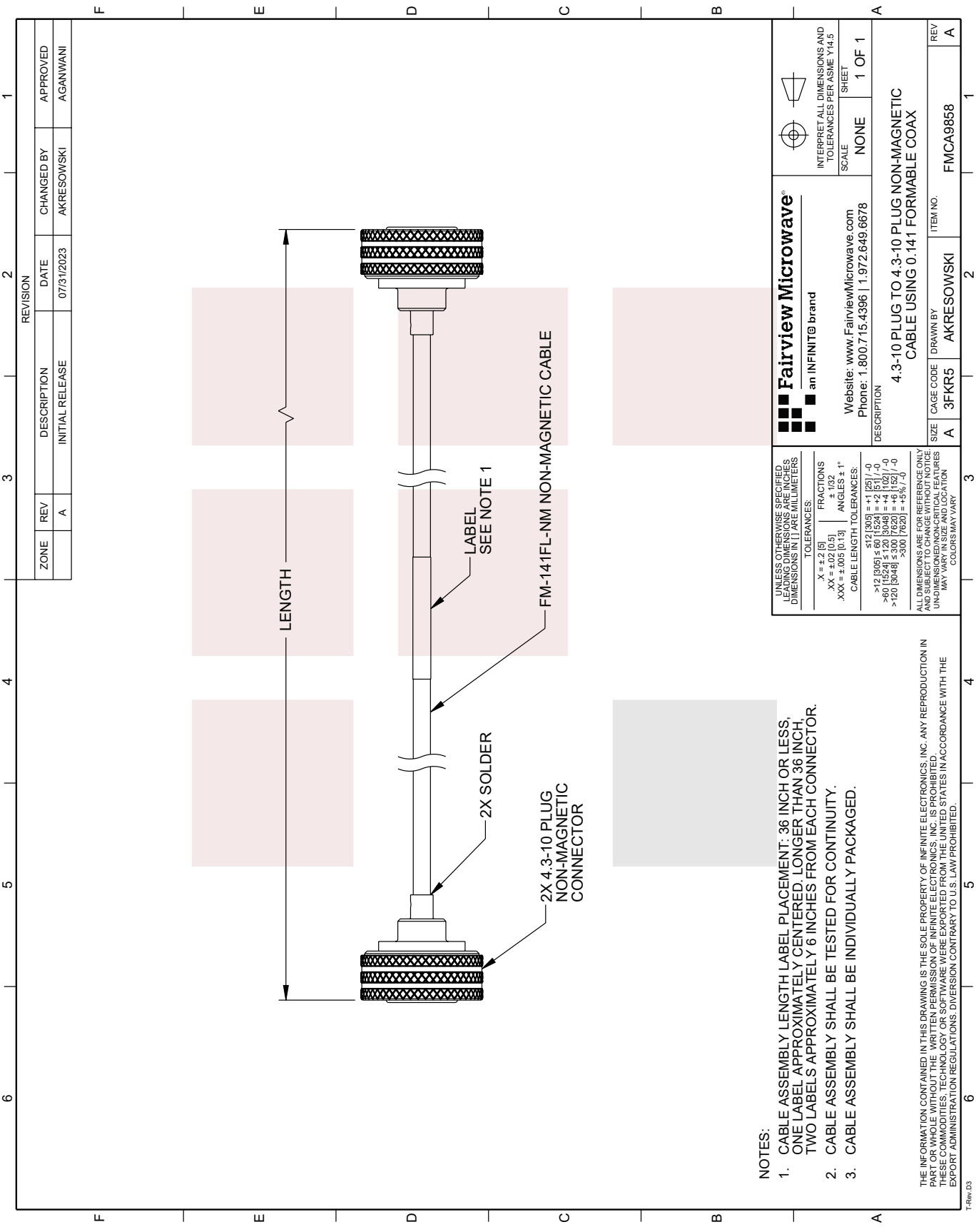
- uu: cm = Centimeters; <blank> = Inches
- xx: Length

Example: FMCA9858-12 = 12 inches long cable
FMCA9858-100cm = 100 cm long cable

Non-Magnetic 4.3-10 Plug to 4.3-10 Plug Cable FM-141FL-NM Coax from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: Non-Magnetic 4.3-10 Plug to 4.3-10 Plug Cable FM-141FL-NM Coax FMCA9858

URL: https://www.fairviewmicrowave.com/non-magnetic-4.3-10-plug-to-4.3-10-plug-cable-fm-141fl-nm-coax-fmca9858-p.aspx



ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
	A	INITIAL RELEASE	07/31/2023	AKRESOWSKI	AGANWANI

REVISION

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.

UNLESS OTHERWISE SPECIFIED:
LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [ ] ARE MILLIMETERS
TOLERANCES:
X = ± .2 [5] | FRACTIONS ± 1/32
XX = ± .02 [0.5] | ANGLES ± 1°
XXX = ± .005 [0.13]
CABLE LENGTH TOLERANCES:
≤12 [305] = +1 [25] / -0
>12 [305] ≤ 60 [1524] = +2 [51] / -0
>60 [1524] ≤ 120 [3048] = +4 [102] / -0
>120 [3048] ≤ 300 [7620] = +6 [152] / -0
>300 [7620] = +5% / -0
ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE.
UN-DIMENSIONED/NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION
COLORS MAY VARY

Fairview Microwave
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INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

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

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	3FKR5	AKRESOWSKI	FMCA9858	A

SCALE NONE | SHEET 1 OF 1

T-Rev.D3