

4.3-10 Male to N Male Low Loss Cable 50 CM Length Using LMR-240-UF Coax with HeatShrink



RF Cable Assemblies Technical Data Sheet

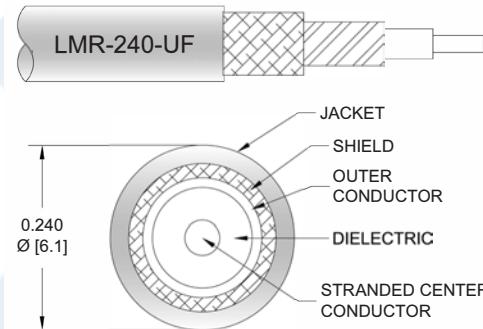
PE3C7907-50CM

Configuration

- Connector 1: 4.3-10 Male
- Connector 2: N Male
- Cable Type: LMR-240-UF

Features

- Max Frequency 5.8 GHz
- Shielding Effectivity > 90 dB
- 84% Phase Velocity
- Double Shielded
- TPE Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C7907-50CM 4.3-10 male to type N male 50 cm cable using LMR-240-UF coax is part of our full line of RF components available for same-day shipping. Pasternack's flexible RF cable assemblies are ideal for applications where tight bends and flexure are required. This Pasternack 4.3-10 to type N cable assembly has a male to male gender configuration with 50 ohm flexible LMR-240-UF coax. The PE3C7907-50CM 4.3-10 male to type N male cable assembly operates to 5.8 GHz. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness of better than 90 dB.

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: [4.3-10 Male to N Male Low Loss Cable 50 CM Length Using LMR-240-UF Coax with Heat-Shrink PE3C7907-50CM](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		5.8	GHz
VSWR			1.4:1	
Velocity of Propagation		84		%
RF Shielding	90			dB
Group Delay		1.21 [3.97]		ns/ft [ns/m]
Capacitance		24.2 [79.4]		pF/ft [pF/m]
Inductance		0.06 [0.2]		uH/ft [uH/m]
DC Resistance Inner Conductor		4.28 [14.04]		Ω/1000ft [Ω/Km]
DC Resistance Outer Conductor		3.89 [12.76]		Ω/1000ft [Ω/Km]
Operating Voltage (DC)			2,500	Vdc
Dielectric Withstanding Voltage (DC)			1,500	Vdc
Jacket Spark			5,000	Vrms
Input Power (Peak)			5.6	KWatts

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	5.8	GHz
Insertion Loss (Typ.)	0.18	0.25	0.36	0.57	0.89	dB

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of $0.1 * \text{SQRT}(F\text{GHz})$ dB per connector loss.

Mechanical Specifications

Cable Assembly

Length* 19.68 in [499.87 mm]

Cable

Cable Type	LMR-240-UF
Impedance	50 Ohms
Inner Conductor Type	Stranded
Inner Conductor Material and Plating	Copper
Dielectric Type	PE (F)
Number of Shields	2
Shield Layer 1	Aluminum Tape
Shield Layer 2	Tinned Copper Braid

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Jacket Material	TPE, Black
Jacket Diameter	0.24 in [6.1 mm]
One Time Minimum Bend Radius	0.75 in [19.05 mm]
Repeated Minimum Bend Radius	2.5 in [63.5 mm]
Bending Moment	0.13 lbs-ft [0.18 N-m]
Flat Plate Crush	13 lbs/in [0.23 Kg/mm]
Tensile Strength	80 lbs [36.29 Kg]

Connectors

Description	Connector 1	Connector 2
Type	4.3-10 Male	N Male
Specification		MIL-STD-348
Impedance	50 Ohms	50 Ohms
Mating Cycles	500	
Contact Material and Plating	Brass, Silver	Brass, Gold
Contact Plating Specification	200 μ in thickness	
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Specification	80 μ in thickness	
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Plating Specification	80 μ in thickness	

Environmental Specifications

Temperature

Operating Range

-40 to +85 deg C

Storage Range

-70 to +85 deg C

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

Plotted and Other Data

Notes:

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How to Order

Part Number Configuration:

PE3C7907

- **xx**

uu

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

Example: PE3C7907-12 = 12 inches long cable
PE3C7907-100cm = 100 cm long cable

4.3-10 Male to N Male Low Loss Cable 50 CM Length Using LMR-240-UF Coax with HeatShrink 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 Male to N Male Low Loss Cable 50 CM Length Using LMR-240-UF Coax with HeatShrink PE3C7907-50CM](https://www.pasternack.com/4.3-10-male-n-male-lmr240uf-cable-assembly-pe3c7907-50cm-p.aspx)

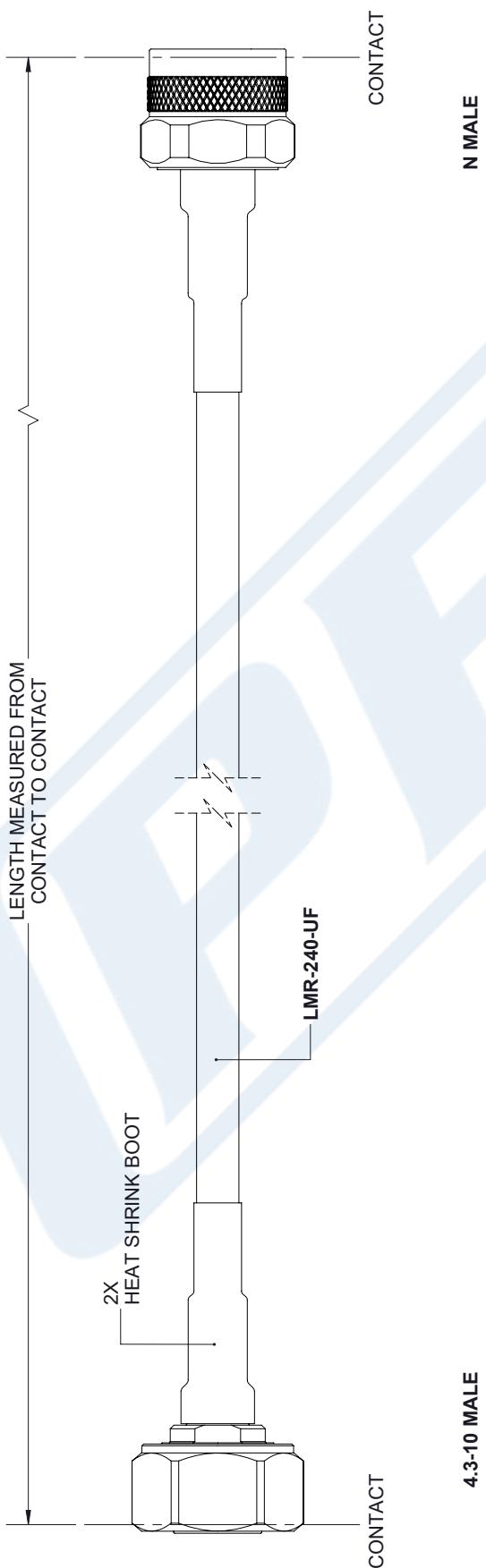
URL: <https://www.pasternack.com/4.3-10-male-n-male-lmr240uf-cable-assembly-pe3c7907-50cm-p.aspx>

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.

PE3C7907-50CM CAD Drawing

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REVISIONS				
REV.	DESCRIPTION	DATE	APPROVED	
A	INITIAL RELEASE	4/13/2021	S.SELLIS	



UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS		TOLERANCES:		THIRD-ANGLE PROJECTION	
X = \pm 2	[5.08]	FRACTIONS	\pm 1/32		
XX = \pm .02	[.51]	ANGLES \pm 1°			
XXX = \pm .005	[.13]	CABLE LENGTH (L) TOLERANCES:			
L \leq 12 [305] = $+1 [25]$ / -0		L \leq 12 [305] < L \leq 60 [1524] = $+2 [51]$ / -0			
12 [305] < L \leq 120 [3048] = $+4 [102]$ / -0		60 [1524] < L \leq 120 [3048] = $+2 [51]$ / -0			
120 [3048] < L \leq 300 [7620] = $+6 [152]$ / -0		300 [7620] < L = $+5\% L$ / -0			
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.					
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		ITEM NO.	PE3C7907	REV	N/A
SIZE	CAGE CODE	DRAWN BY	K.DANG		

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