



SMA Male to SMA Male Right Angle Cable Using LMR-240 Coax , LF Solder In 50 CM Length

RF Cable Assemblies Technical Data Sheet

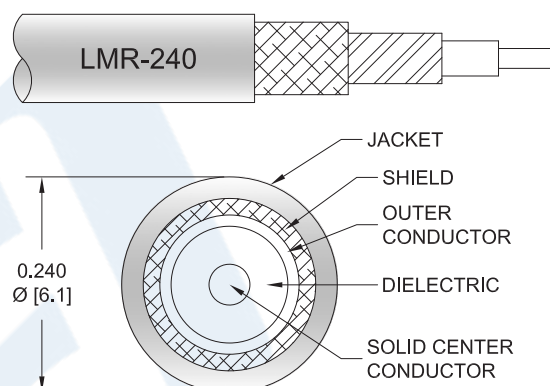
PE3C6658LF-50CM

Configuration

- Connector 1: SMA Male
- Connector 2: SMA Male Right Angle
- Cable Type: LMR-240

Features

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



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C6658LF-50CM SMA male to SMA male right angle 50 cm cable using LMR-240 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 SMA to SMA cable assembly has a male to male gender configuration with 50 ohm flexible LMR-240 coax. The PE3C6658LF-50CM SMA male to SMA male cable assembly operates to 5.8 GHz. The right angle SMA interface on the LMR-240 cable allows for easier connections in tight spaces. 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: [SMA Male to SMA Male Right Angle Cable Using LMR-240 Coax , LF Solder In 50 CM Length PE3C6658LF-50CM](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		5.8	GHz
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		3.2 [10.5]		Ω/1000ft [Ω/Km]
DC Resistance Outer Conductor		3.89 [12.76]		Ω/1000ft [Ω/Km]
Jacket Spark			5,000	Vrms

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	5.8	GHz
Insertion Loss (Typ.)	0.17	0.24	0.33	0.53	0.82	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*SQRT(FGHz) dB per connector.

Mechanical Specifications

Cable Assembly

Length* 19.68 in [499.87 mm]

Weight 0.087 lbs [39.46 g]

Cable

Cable Type LMR-240
 Impedance 50 Ohms
 Inner Conductor Type Solid
 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
 Jacket Material PE, Black
 Jacket Diameter 0.24 in [6.1 mm]

One Time Minimum Bend Radius 0.75 in [19.05 mm]

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Repeated Minimum Bend Radius	2.5 in [63.5 mm]
Bending Moment	0.25 lbs-ft [0.34 N-m]
Flat Plate Crush	20 lbs/in [0.36 Kg/mm]
Tensile Strength	80 lbs [36.29 Kg]

Connectors

Description	Connector 1	Connector 2
Type	SMA Male	SMA Male Right Angle
Impedance	50 Ohms	50 Ohms
Mating Cycles	500	
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification		50 µin minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Gold	Brass, Gold
Body Plating Specification		3 µin minimum
Coupling Nut Material and Plating	Brass, Gold	Brass, Gold
Coupling Nut Plating Specification		3 µin minimum
Hex Size	5/16 inch	5/16 inch
Torque	3 in-lbs [0.34 Nm]	3 in-lbs [0.34 Nm]

Environmental Specifications

Temperature

Operating Range	-40 to +85 deg C
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Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

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PE3C6658LF-50CM

How to Order

Part Number Configuration:

PE3C6658LF

- **xx**

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

Example: PE3C6658LF-12 = 12 inches long cable
PE3C6658LF-100cm = 100 cm long cable

SMA Male to SMA Male Right Angle Cable Using LMR-240 Coax , LF Solder In 50 CM Length 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.

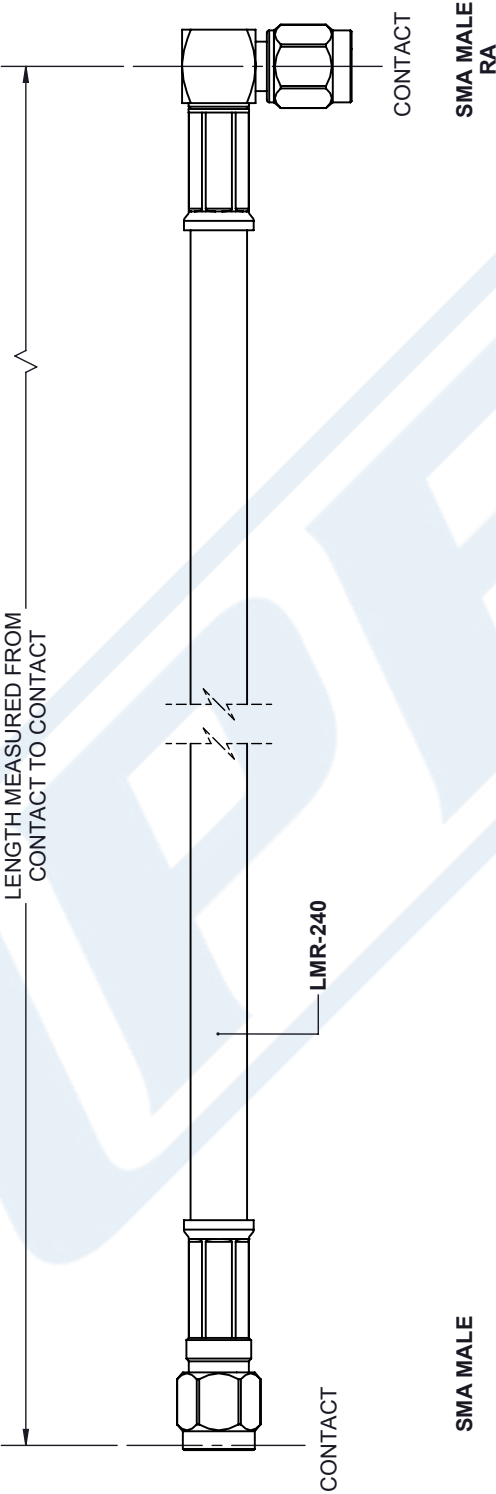
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male to SMA Male Right Angle Cable Using LMR-240 Coax , LF Solder In 50 CM Length PE3C6658LF-50CM](https://www.pasternack.com/sma-male-to-sma-male-cable-50-cm-leAgth-usiAg-lmr-240-lf-solder-pe3c6658lf-50cm-p.aspx)

URL: <https://www.pasternack.com/sma-male-to-sma-male-cable-50-cm-leAgth-usiAg-lmr-240-lf-solder-pe3c6658lf-50cm-p.aspx>

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PE3C6658LF-50CM CAD Drawing
SMA Male to SMA Male Right Angle Cable Using
LMR-240 Coax , LF Solder In 50 CM Length

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	11/5/2021	A. GANWANI



UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS				PE PASTERNAK® an INFINITE® brand Pasternack Enterprises, Inc. P.O.Box 16759, Irvine, CA 92623. Phone: 1.949.261.1920 1.866.727.8376 Fax: 1.949.261.7451 Website: www.pasternack.com E-mail: sales@pasternack.com			
TOLERANCES:				SHEET 1 OF 1			
X = ± .2		[.008]		FRACTIONS		SCALE N/A	
.XX = ± .02		[.51]		± 1/32			
.XXX = ± .005		[.13]		ANGLES ± 1°			
CABLE LENGTH (L) TOLERANCES:							
L ≤ 12 [305]				= +1 [25] / -0			
12 [305] < L ≤ 60 [1524]				= +2 [51] / -0			
60 [1524] < L ≤ 120 [3048]				= +4 [102] / -0			
120 [3048] < L ≤ 300 [7620]				= +6 [152] / -0			
300 [7620] < L				= +5% / -0			
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.				SIZE		CAGE CODE	
				A		53919	
				DRAWN BY		K.DANG	
				ITEM NO.		PE3C6658LF	
				REV		A	
				THIRD-ANGLE PROJECTION			
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