

SMA Male to SMA Male Right Angle Cable 24 Inch Length Using LMR-240 Coax , LF Solder

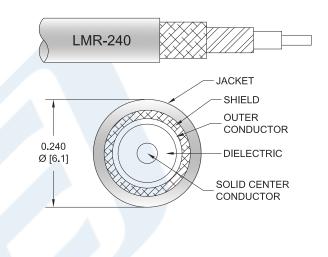


RF Cable Assemblies Technical Data Sheet

PE3C6658-24

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 PE3C6658-24 SMA male to SMA male right angle 24 inch 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 PE3C6658-24 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 24 Inch Length Using LMR-240 Coax, LF Solder PE3C6658-24

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451 Sales@Pasternack.com • Techsupport@Pasternack.com



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Electrical Specifications

Description		Minimun	n Typical		Maximum	Units
Frequency Range		DC			5.8	GHz
VSWR					1.6:1	
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			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	0.5	1	2	4	5.8	GHz
Insertion Loss (Max.)	0.41	0.46	0.53	0.63	0.71	dB

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax cable and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1 dB for the straight connector and 0.2 dB for the right angle connector.

Mechanical Specifications

Cable Assembly Length* Diameter	24 in [609.6 mm] 0.379 in [9.63 mm]
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

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Jacket Material Jacket Diameter

One Time Minimum Bend Radius Repeated Minimum Bend Radius Bending Moment Flat Plate Crush Tensile Strength PE, Black 0.24 in [6.1 mm]

0.75 in [19.05 mm] 2.5 in [63.5 mm] 0.25 lbs-ft [0.34 N-m] 20 lbs/in [0.36 Kg/mm] 80 lbs [36.29 Kg]

Connectors

Description	Connector 1	Connector 2			
Туре	SMA Male	SMA Male Right Angle			
Specification		MIL-STD-348			
Impedance	50 Ohms	50 Ohms			
Mating Cycles	500				
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gold			
Contact Plating Specification		ASTM B488			
Dielectric Type	PTFE	PTFE			
Body Material and Plating	Brass, Gold	Brass, Tri-Metal			
Coupling Nut Material and Plating	Brass, Gold	Brass, Tri-Metal			
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

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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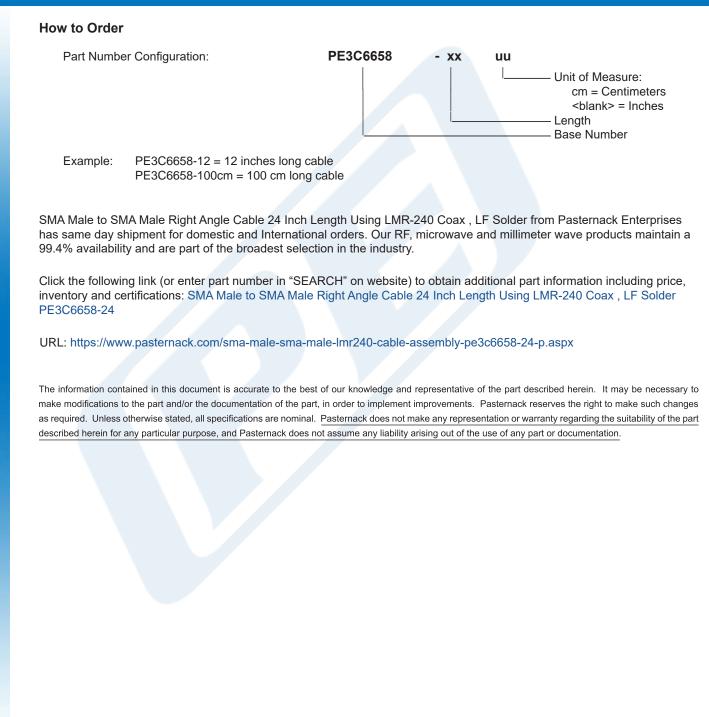




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