

## MMCX Plug Right Angle to MMCX Plug Right Angle Low Loss Cable Using LMR-100 Coax with 270 Deg. Clock



### PE3C1074/PH270

#### Configuration

- Connector 1: MMCX Plug Right Angle
- Connector 2: MMCX Plug Right Angle
- Cable Type: LMR-100A
- Coax Flex Type: Flexible

#### Features

- Max Frequency 6 GHz
- Shielding Effectivity > 90 dB
- 66% Phase Velocity
- Double Shielded
- PVC Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3C1074/PH270 MMCX plug right angle to MMCX plug right angle cable using LMR-100 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 MMCX to MMCX cable assembly has a plug to plug gender configuration with 50 ohm flexible LMR-100A coax. The PE3C1074/PH270 MMCX plug to MMCX plug cable assembly operates to 6 GHz. The right angle MMCX interfaces on the LMR-100A cable allow 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.

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
VSWR			1.4:1	
Velocity of Propagation		66		%
RF Shielding	90			dB
Group Delay		1.54 [5.05]		ns/ft [ns/m]
Capacitance		30.8 [101.05]		pF/ft [pF/m]
Inductance		0.077 [0.25]		uH/ft [uH/m]
DC Resistance Inner Conductor		81 [265.75]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		9.5 [31.17]		Ohms/1000ft [Ohms/Km]

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**PE3C1074/PH270**

**Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Jacket Spark			2,000	Vrms

**Specifications by Frequency**

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency					MHz	
PE3C1074/PH270	Custom Lengths Available	Insertion Loss (Typ.)	0.115	0.165	0.24	0.398	0.641	dB/ft	
			0.38	0.55	0.79	1.31	2.11	dB/m	
PE3C1074/PH270-24	24 In	Insertion Loss (Typ.)	0.63	0.73	0.88	1.2	1.69	dB	0.032
PE3C1074/PH270-36	36 In	Insertion Loss (Typ.)	0.75	0.9	1.12	1.6	2.33	dB	0.041
PE3C1074/PH270-48	48 In	Insertion Loss (Typ.)	0.86	1.06	1.36	2	2.97	dB	0.05
PE3C1074/PH270-100CM	100 CM	Insertion Loss (Typ.)	0.78	0.95	1.19	1.71	2.51	dB	0.044
PE3C1074/PH270-200CM	200 CM	Insertion Loss (Typ.)	1.16	1.49	1.98	3.02	4.61	dB	0.074

The insertion loss data for the base model does not include loss due to the connectors. Each length includes insertion loss due to the connectors.

Loss due to Connector 1:	0.2 dB
Loss due to Connector 2:	0.2 dB
Base Weight:	0.023 pounds
Additional Weight per Inch:	0.00075 pounds

**Mechanical Specifications**

**Cable Assembly**

Width/Diameter	0.5 in [12.7 mm]
Weight	0.014 lbs [6.35 g]

**Cable**

Cable Type	LMR-100A
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper Clad Steel
Dielectric Type	PE
Number of Shields	2
Shield Layer 1	Aluminum Tape
Shield Layer 2	Tinned Copper Braid
Jacket Material	PVC, Black
Jacket Diameter	0.11 in [2.79 mm]
One Time Minimum Bend Radius	0.25 in [6.35 mm]
Repeated Minimum Bend Radius	1 in [25.4 mm]
Bending Moment	0.1 lbs-ft [0.14 N-m]
Flat Plate Crush	10 lbs/in [0.18 Kg/mm]
Tensile Strength	15 lbs [6.8 Kg]

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## PE3C1074/PH270

### Connectors

Description	Connector 1	Connector 2
Type	MMCX Plug Right Angle	MMCX Plug Right Angle
Specification	BS EN 122340	BS EN 122340
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Right Angle
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	30 µin minimum	30 µin minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Gold	Brass, Gold
Body Plating Specification	3 µin minimum	3 µin minimum

### Environmental Specifications

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

### Plotted and Other Data

Notes:

Values at 25°C, sea level.

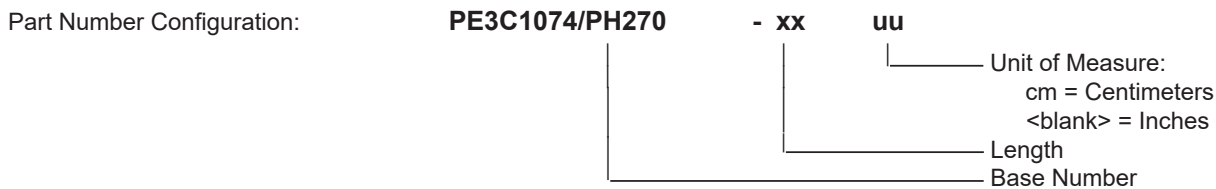
MMCX Plug Right Angle to MMCX Plug Right Angle Low Loss Cable Using LMR-100 Coax with 270 Deg. Clock



**PE3C1074/PH270**

**Typical Performance Data**

**How to Order**



Example:    PE3C1074/PH270-12 = 12 inches long cable  
              PE3C1074/PH270-100cm = 100 cm long cable

MMCX Plug Right Angle to MMCX Plug Right Angle Low Loss Cable Using LMR-100 Coax with 270 Deg. Clock 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.

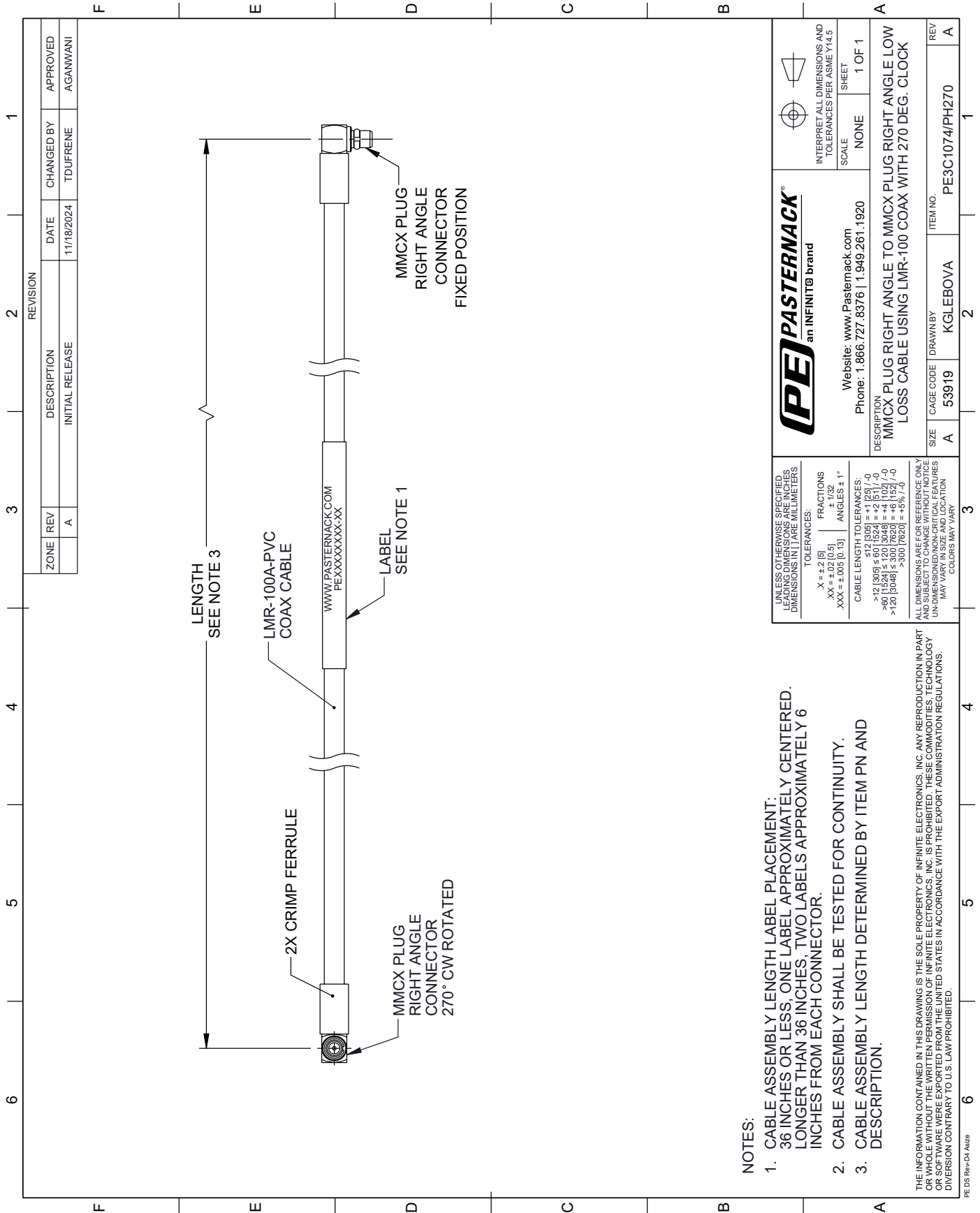
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [MMCX Plug Right Angle to MMCX Plug Right Angle Low Loss Cable Using LMR-100 Coax with 270 Deg. Clock PE3C1074/PH270](#)

URL: <https://www.pasternack.com/mmcx-plug-right-angle-to-mmcx-plug-low-loss-cable-using-lmr-100-with-270-deg.-clock-pe3c1074-ph270-p.aspx>

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# PE3C1074/PH270 CAD Drawing

MMCX Plug Right Angle to MMCX Plug Right Angle Low Loss Cable Using LMR-100 Coax with 270 Deg. Clock



**NOTES:**

1. CABLE ASSEMBLY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROXIMATELY CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY 6 INCHES FROM EACH CONNECTOR.
2. CABLE ASSEMBLY SHALL BE TESTED FOR CONTINUITY.
3. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.

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	Website: <a href="http://www.Pasternack.com">www.Pasternack.com</a> Phone: 1.866.727.8376   1.949.261.1920
	INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SCALE: NONE SHEET: 1 OF 1
DESCRIPTION <b>MMCX PLUG RIGHT ANGLE TO MMCX PLUG RIGHT ANGLE LOW LOSS CABLE USING LMR-100 COAX WITH 270 DEG. CLOCK</b>	
SIZE: A CAGE CODE: 53919 DRAWN BY: KGLEBOVA ITEM NO.: PE3C1074/PH270	REV: A

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN PARENS ARE MILLIMETERS

TOLERANCES:  
 X = ±.2 [5] FRACTIONS ±.132  
 .XX = ±.02 [0.5] ANGLES ± 1°  
 .XXX = ±.005 [0.13]

CABLE LENGTH TOLERANCES:  
 >12 [305] ≤ 60 [1524] = +.1 [25] / -0  
 >60 [1524] ≤ 120 [3048] = +.4 [102] / -0  
 >120 [3048] ≤ 360 [9144] = +.8 [203] / -0  
 >360 [9144] = +.8 [203] / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY. DIMENSIONS OF CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.