



### TECHNICAL DATA SHEET

PE3C1147

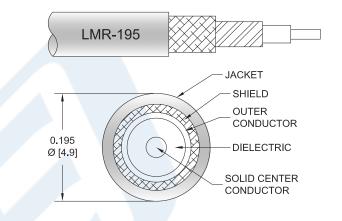
# Configuration

Connector 1: QMA MaleConnector 2: QMA MaleCable Type: LMR-195

· Coax Flex Type: Flexible

#### **Features**

- Max Frequency 5.8 GHz
- Shielding Effectivity > 90 dB
- · 80% Phase Velocity
- · Double Shielded
- · PE Jacket
- 500 Mating Cycles



### **Applications**

General Purpose

· Laboratory Use

### Description

Pasternack's PE3C1147 QMA male to QMA male cable using LMR-195 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 QMA to QMA cable assembly has a male to male gender configuration with 50 ohm flexible LMR-195 coax. The PE3C1147 QMA male to QMA 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: QMA Male to QMA Male Low Loss Cable Using LMR-195 Coax PE3C1147

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





# **TECHNICAL DATA SHEET**

PE3C1147

### **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		5.8	GHz
VSWR		750	1.4:1	
Velocity of Propagation		80		%
RF Shielding	90			dB
Group Delay		1.27 [4.17]		ns/ft [ns/m]
Capacitance		25.4 [83.33]		pF/ft [pF/m]
Inductance		0.064 [0.21]		uH/ft [uH/m]
DC Resistance Inner Conductor		7.6 [24.93]		Ω/1000ft [Ω/Km]
DC Resistance Outer Conductor		4.9 [16.08]	10	Ω/1000ft [Ω/Km]
Jacket Spark			3,000	Vrms

Specifications by Frequency

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
Fait Nullibel	Length	Frequency	250	500	1000	2500	5800	MHz	weight (bs)
PE3C1147	Custom Lengths	Insertion Loss (Typ.)	0.06	0.08	0.12	0.19	0.3	dB/ft	
1 1301147	Available	1113C1 t1011 L033 (1 yp.)	0.19	0.27	0.39	0.63	0.99	dB/m	
PE3C1147-12	12 inch	Insertion Loss (Typ.)	0.26	0.29	0.32	0.39	0.5	dB	0.052
PE3C1147-24	24 inch	Insertion Loss (Typ.)	0.32	0.37	0.44	0.58	0.8	dB	0.075
PE3C1147-36	36 inch	Insertion Loss (Typ.)	0.38	0.45	0.55	0.77	1.1	dB	0.097
PE3C1147-48	48 inch	Insertion Loss (Typ.)	0.43	0.53	0.67	0.96	1.4	dB	0.119
PE3C1147-60	60 inch	Insertion Loss (Typ.)	0.49	0.61	0.78	1.15	1.7	dB	0.141

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 1:0.1 dBLoss due to Connector 2:0.1 dBBase Weight:0.052 poundsAdditional Weight per Inch:0.00075 pounds

### **Mechanical Specifications**

#### **Cable Assembly**

Weight 0.052 lbs [23.59 g]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: QMA Male to QMA Male Low Loss Cable Using LMR-195 Coax PE3C1147

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





# **TECHNICAL DATA SHEET**

PE3C1147

Cable

Cable Type Impedance

Inner Conductor Type

Inner Conductor Material and Plating

Dielectric Type

Number of Shields

Shield Layer 1

Shield Layer 2

Jacket Material

Jacket Diameter

One Time Minimum Bend Radius Repeated Minimum Bend Radius

Bending Moment

Flat Plate Crush

Tensile Strength

LMR-195

50 Ohms

Solid

Colla

Copper

PE (F)

Aluminum Tape

**Tinned Copper Braid** 

PE, Black

0.195 in [4.95 mm]

0.5 in [12.7 mm]

2 in [50.8 mm]

0.2 lbs-ft [0.27 N-m]

15 lbs/in [0.27 Kg/mm]

40 lbs [18.14 Kg]

#### Connectors

QMA Male Push-On 50 Ohms 500	QMA Male Push-On 50 Ohms 500
500	
	500
Brass, Gold	Brass, Gold
PTFE	PTFE
Phosphor Bronze, Tri-Metal	Phosphor Bronze, Tri-Metal
Brass, Tri-Metal	Brass, Tri-Metal
	PTFE Phosphor Bronze, Tri-Metal

### **Environmental Specifications**

**Temperature** 

Operating Range

-40 to +85 deg C

Compliance Certifications (see product page for current document)

**Plotted and Other Data** 

Notes:

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: QMA Male to QMA Male Low Loss Cable Using LMR-195 Coax PE3C1147

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

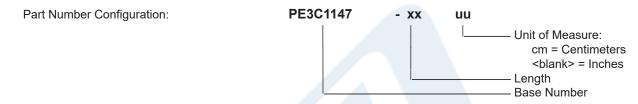




# **TECHNICAL DATA SHEET**

PE3C1147

#### **How to Order**



Example: PE3C1147-12 = 12 inches long cable

PE3C1147-100cm = 100 cm long cable

QMA Male to QMA Male Low Loss Cable Using LMR-195 Coax 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: QMA Male to QMA Male Low Loss Cable Using LMR-195 Coax PE3C1147

URL: https://www.pasternack.com/qma-male-to-qma-male-low-loss-cable-using-lmr-195-pe3c1147-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.

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

### PE3C1147 CAD Drawing QMA Male to QMA Male Low Loss Cable Using LMR-195 Coax ш INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 ⋖ APPROVED AGANWANI 1 OF QMA Male to QMA Male Low Loss Cable Using LMR-195 Coax PE3C1147 NONE CHANGED BY QMA MALE-CONNECTOR KDANG PASTERNACK ITEM NO Website: www.Pasternack.com Phone: 1.866.727.8376 | 1.949.261.1920 10/9/2023 DATE an INFINIT® brand $\alpha$ KDANG REVISION DRAWN BY INITIAL RELEASE DESCRIPTION CAGE CODE 53919 SIZE ⋖ 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 ± 1/32 ANGLES ± 1° UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS FRACTIONS CABLE LENGTH TOLERANCES: <12 [305] < +1 [25] />12 [305] < 60 [1524] = +2 [51] />60 [1524] < 120 [3048] = +4 [102] />120 [3048] < 3300 [7620] = +6 [152] />3300 [7620] = +6 [152] /-SEE NOTE 1 TOLERANCES LABEL REV .X = ±.2 [5] .XX = ±.02 [0.5] .XXX = ±.005 [0.13] ⋖ WWW.PASTERNACK.COM PEXXXXXXXXXXXX ZONE SEE NOTE 2 LENGTH CABLE ASSY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF INFINITE ELECTRONICS, INC. ANY REPRODUCTION IN PRAT OR WINDLE WITHOUT THE WITHEN PERMISSION OF INFINITE ELECTRONICS, INC. IS PROHIBITED. THESE COMMODITES, TECHNOLICGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAWP PROHIBITED. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION APPROX CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROX COAX CABLE CABLES ASSEMBLIES SHALL BE TESTED FOR CONTINUITY. LMR-195 2X CRIMP FERRULE 2 6 INCHES FROM EACH CONNECTOR. CONNECTOR QMA MALE 9 NOTES PE DS Rev-D4 Asize 0, ε

ш

ш

O

В

D

⋖