

Low PIM 2.2-5 Male to QMA Male Cable Using TFT-402 Coax Using Times Microwave Components 2 Meter

LCCA31067-M2



Configuration

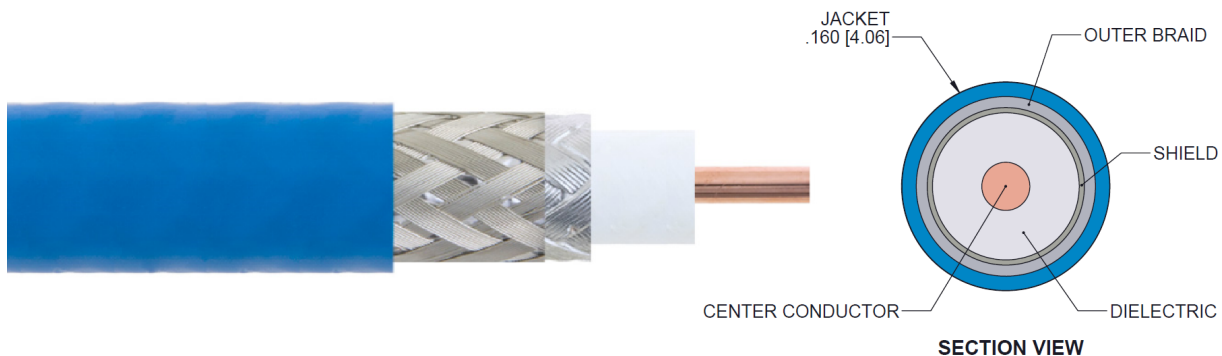
- Connector 1: QMA Male
- Connector 2: 2.2-5 Male
- Cable Type: TFT-5G-402

Features

- 100% Tested with PIM Test Results Marked on Cable
- Lightweight and Extremely Flexible
- Low Loss with Excellent VSWR
- IP67 (when mated)
- Using Times Microwave Components

Applications

- Distributed Antenna Systems (DAS)
- Plenum Installations
- Multi-Carrier Communication Systems
- PIM Testing



Description

L-com's LCCA31067-M2 is a low PIM 2.2-5 male to QMA male cable using TFT-402 coax using Times Microwave components 2 meter and ships same-day. The TFT-5G-402 coax of this QMA cable uses the PTFE dielectric with a VoP of 76%. These flexible RF cable assemblies are ideal for applications where flexure is required. Our L-com QMA to 2.2-5 cable assembly has a male to male gender configuration with flexible TFT-5G-402 series coax and operates to 3 GHz. The double shield of this QMA cable is layered by over providing shielding effectiveness greater than 80dB. With passive intermodulation levels better than dBc, our cable assembly design is ideal where low PIM is desired. Times Microwave cable is used in each assembly and TMS components are used to form connections with the super flexible low PIM cable. These cable assemblies are expertly built to satisfy your specific need with high quality Times Microwave Systems manufactured parts.

Custom versions of this QMA male to QMA male cable, along with the rest of L-com's other RF assemblies, can also be built and shipped same day. Other available RF cable assembly value added services from L-com 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. Contact a sales representative for testing or custom RF cable quotes. Part number LCCA31067-M2 L-com Low PIM 2.2-5 Male to QMA Male Cable Using TFT-402 Coax Using Times Microwave Components 2 Meter data sheet PDF includes details of the RF product specifications, CAD drawing(s) and dimensions below.

Low PIM 2.2-5 Male to QMA Male Cable Using TFT-402 Coax
Using Times Microwave Components 2 Meter



LCCA31067-M2

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
VSWR			1.4:1	
Velocity of Propagation		76		%
RF Shielding	80			dB
Capacitance		26.7 [87.6]		pF/ft [pF/m]

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	3	GHz
Insertion Loss (Typ.)	0.12	0.24	0.4	0.56	1.02	dB

Electrical Specification Notes:

PIM test results vary between cables

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 0.1xSQRT(FGHz) dB per connector.

Mechanical Specifications

Cable Assembly

Length	78.74 in [200 cm]
Diameter	0.5 in [12.7 mm]
Weight	0.577 lbs [261.72 g]

Cable

Cable Type	TFT-5G-402
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper
Dielectric Type	PTFE
Number of Shields	2
Outer Conductor Material and Plating	Copper, Tin
Jacket Material	FEP, Blue
Jacket Diameter	0.16 in [4.06 mm]
One Time Minimum Bend Radius	0.75 in [19.05 mm]

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Connectors

Description	Connector 1	Connector 2
Type	QMA Male	2.2-5 Male
Impedance	50 Ohms	50 Ohms
Mating Cycles	100	100
Contact Material and Plating	Brass, Silver	Beryllium Copper, Silver
Contact Plating Specification	5 µm	200 µin
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Silver	Brass, Silver
Body Plating Specification	5 µm	100 µin
Coupling Nut Material and Plating		Brass, Tri-Metal
Coupling Nut Plating Specification		100 µin
Torque		26 in-lbs 2.94 Nm

Environmental Specifications

Temperature

Operating Range -40 to +85 deg C

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

Plotted and Other Data

Notes:

Low PIM 2.2-5 Male to QMA Male Cable Using TFT-402 Coax
Using Times Microwave Components 2 Meter



LCCA31067-M2

How to Order

Part Number Configuration:

LCCA31067

- **xx**

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

Example: LCCA31067-12 = 12 inches long cable
LCCA31067-100cm = 100 cm long cable

Low PIM 2.2-5 Male to QMA Male Cable Using TFT-402 Coax Using Times Microwave Components 2 Meter from L-com has same day shipment for domestic and International orders. L-com is a leading manufacturer of wired and wireless connectivity products and committed to in-stock availability and same day shipping. Our portfolio includes coaxial cable assemblies, connectors, adapters and custom products as well as lightning and surge protectors, NEMA rated enclosures, and an RF product line which includes antennas, amplifiers, passive, and active components.

The information contained within 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. L-com reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. L-com does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and L-com does not assume liability arising out of the use of any part or document contained within 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. L-com reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. L-com does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and L-com does not assume liability arising out of the use of any part or document.

L-com CAD Drawing

REV. A

DESCRIPTION
INITIAL RELEASE

DATE
08/31/2022

APPROVED
AGANWANI

UNLESS OTHERWISE SPECIFIED
LEADING DIMENSIONS ARE IN INCHES
DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES:

X = ±.2 [5.08]

XX = ±.02 [.51]

.XXX = ±.005 [.13]

FRACTIONS
± 1/32

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.

THIRD-ANGLE PROJECTION

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DESIGN IN THIS DOCUMENT
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SHEET 1

OF 1

SCALE

N/A

PE

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SIZE A

CAGE CODE

53919

DRAWN BY
DZINN

ITEM NO.
LCCA31067

REV
A

LENGTH MEASURED FROM
CONTACT TO CONTACT

16mm HEX

2X HEAT SHRINK

2.2-5 MALE

L-COM LABEL

PIM LABEL

TFT-5G-402

QMA MALE

"www.L-COM.com"

LCCA31067

S/N: XXXXXXXXXX"

SEE NOTE 1

"PIM LEVEL
-zzzdBc
S/N: XXXXXXXXXX"

SEE NOTE 2

NOTES:

1. CABLES 84" AND UNDER HAVE 1 LABEL CENTERED. CABLES OVER 84" HAVE 2 LABELS. ONE AT EACH END, 12" FROM THE FRONT OF THE CONNECTOR.

2. PIM LABEL LOCATED 6" FROM CABLE END, 1 PLACE FOR ALL LENGTHS OF CABLE.

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