

SMA Male to TNC Male Cable Assembly using RG223 Coax, 2 FT



LCCA30360-FT2

Configuration

- Connector 1: SMA Male
- Connector 2: TNC Male
- Cable Type: RG223

Features

- Max Frequency 6 GHz
- 66% Phase Velocity
- Double Shielded
- PVC Jacket

Applications

- General Purpose
- Laboratory Use



Description

L-com's LCCA30360-FT2 is a SMA male to TNC male cable assembly using RG223 coax, 2 FT and ships same-day. The RG223 coax of this SMA cable uses the PE dielectric with a VoP of 66%. These flexible RF cable assemblies are ideal for applications where flexure is required. Our L-com SMA to TNC cable assembly has a male to male gender configuration with flexible RG223 series coax and operates to 6 GHz. The double shield of this SMA cable is layered by silver plated copper braid over silver plated copper braid.

Custom versions of this SMA male to SMA 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 LCCA30360-FT2 L-com SMA Male to TNC Male Cable Assembly using RG223 Coax, 2 FT data sheet PDF includes details of the RF product specifications, CAD drawing(s) and dimensions below.

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Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|-------------------------|---------|---------------|---------|--------------|
| Frequency Range | DC | | 6 | GHz |
| VSWR | | | 1.5:1 | |
| Velocity of Propagation | | 66 | | % |
| Capacitance | | 30.8 [101.05] | | pF/ft [pF/m] |
| Operating Voltage (AC) | | | 500 | Vrms |

Specifications by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|------|-----|------|-----|------|-------|
| Frequency | 0.25 | 0.5 | 1 | 2.5 | 6 | GHz |
| Insertion Loss (Typ.) | 0.33 | 0.4 | 0.48 | 0.6 | 0.95 | dB |

Electrical Specification Notes:

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

Mechanical Specifications

Cable Assembly

| | |
|----------|---------------------|
| Length | 24 in [609.6 mm] |
| Diameter | 0.591 in [15.01 mm] |
| Weight | 0.079 lbs [35.83 g] |

Cable

| | |
|--------------------------------------|----------------------------|
| Cable Type | RG223 |
| Impedance | 50 Ohms |
| Inner Conductor Type | Solid |
| Inner Conductor Material and Plating | Copper, Silver |
| Dielectric Type | PE |
| Number of Shields | 2 |
| Shield Layer 1 | Silver Plated Copper Braid |
| Shield Layer 2 | Silver Plated Copper Braid |
| Jacket Material | PVC, Black |
| Jacket Diameter | 0.21 in [5.33 mm] |

| | |
|------------------------------|---------------------|
| One Time Minimum Bend Radius | 0.984 in [24.99 mm] |
|------------------------------|---------------------|

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Connectors

| Description | Connector 1 | Connector 2 |
|------------------------------------|------------------|------------------|
| Type | SMA Male | TNC Male |
| Specification | MIL-STD-348A | MIL-STD-348A |
| Impedance | 50 Ohms | 50 Ohms |
| Contact Material and Plating | Brass, Gold | Brass, Gold |
| Contact Plating Specification | 50µ in. minimum | 30µ in. minimum |
| Dielectric Type | Teflon | Teflon |
| Body Material and Plating | Brass, Nickel | Brass, Nickel |
| Body Plating Specification | 100µ in. minimum | 100µ in. minimum |
| Coupling Nut Material and Plating | | Brass, Nickel |
| Coupling Nut Plating Specification | | 100µ in. minimum |
| Hex Size | 5/16 in | |
| Torque | 5 in-lbs 0.57 Nm | |

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

Plotted and Other Data

Notes:

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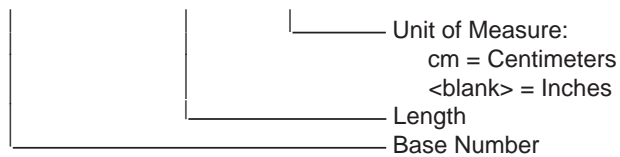


LCCA30360-FT2

How to Order

Part Number Configuration:

LCCA30360 - xx uu



Example: LCCA30360-12 = 12 inches long cable
LCCA30360-100cm = 100 cm long cable

SMA Male to TNC Male Cable Assembly using RG223 Coax, 2 FT 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 impliment 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.ontained 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 impliment 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.

SMA Male to TNC Male Cable Assembly using RG223 Coax, 2 FT

L-com CAD Drawing

| REVISIONS | | DATE | APPROVED |
|-----------|--------------------------------|------------|----------|
| REV. A | DESCRIPTION INITIAL RELEASE | 06/10/2020 | SELLIS |

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(SEE NOTE 1)

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 SHEET 1 OF 1
 SCALE N/A

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| L-com™ an INFINITE brand 50 High Street, West Mill, 3rd Floor, Suite #30 North Andover, MA 01845 USA. Phone: 1.800.341.5266 1.978.682.6936 Fax: 1.978.689.9484 Website: www.l-com.com E-mail: CustomerService@l-com.com | | SIZE A | DRAWN BY BPUCHASKI | ITEM NO. LCCA30360 | REV A |
|--|--|------------------|------------------------------|------------------------------|-----------------|

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS
 TOLERANCES:
 .X = ±.2 [.08] FRACTIONS ± 1/32
 .XX = ±.02 [.51] ANGLES ± 1°
 .XXX = ±.005 [.13] 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%L / -0
 ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

NOTES:
 1. CABLES 36" AND UNDER HAVE 1 LABEL CENTERED.
 CABLES OVER 36" HAVE 2 LABELS, ONE AT EACH END 6.0" FROM THE END OF THE CONNECTOR.

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