

LCCA30272-FT1.5

Configuration

Connector 1: SMA MaleConnector 2: N MaleCable Type: LMR-240-DB

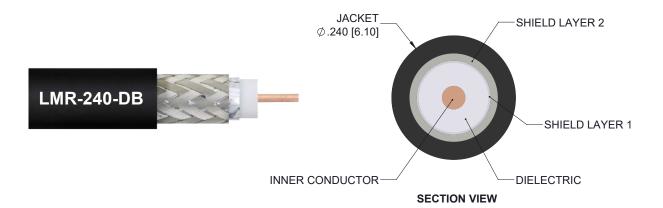
Features

- · Using Times Microwave Components
- Max Frequency 5.8 GHz
- Shielding Effectivity > 90 dB
- 84% Phase Velocity

Applications

- General Purpose
- · Laboratory Use
- Antenna Installations

- PE Jacket
- Low Insertion Loss
- · Bend Radius of 2.5 Inches
- Land Mobile Radio & Other Communication Systems
- · Cellular & Wi-Fi Systems



Description

L-com's LCCA30272-FT1.5 is a low loss SMA male to N male cable assembly using LMR-240-DB coax, 1.5 FT with Times Microwave components and ships same-day. The LMR-240-DB coax of this SMA cable uses the PE (F) dielectric with a VoP of 84%, resulting in very low insertion loss compared to solid dielectrics. These flexible RF cable assemblies are ideal for applications where flexure is required. Our L-com SMA to N cable assembly has a male to male gender configuration with flexible LMR-240-DB series coax and operates to 5.8 GHz. The double shield of this SMA cable is layered by tinned copper braid over aluminum tape providing shielding effectiveness greater than 90dB. *LMR™ is a trademark of Times Microwave Systems.

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 LCCA30272-FT1.5 L-com Low Loss SMA Male to N Male Cable Assembly using LMR-240-DB Coax, 1.5 FT with Times Microwave Components data sheet PDF includes details of the RF product specifications, CAD drawing(s) and dimensions below.





LCCA30272-FT1.5

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|----------------------------|---------|--------------|---------|-----------------------|
| Frequency Range | DC | | 5.8 | GHz |
| 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 Conduc | otor | 3.2 [10.5] | | Ohms/1000ft [Ohms/Km] |
| DC Resistance Outer Condu | ctor | 3.89 [12.76] | | Ohms/1000ft [Ohms/Km] |
| Jacket Spark | | | 5,000 | Vrms |

Specifications by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|------|------|------|------|-----|-------|
| Frequency | 0.25 | 0.5 | 1 | 2.5 | 5.8 | GHz |
| Insertion Loss (Typ.) | 0.25 | 0.28 | 0.31 | 0.39 | 0.5 | 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 per connector

Mechanical Specifications

 Length
 18 in [457.2 mm]

 Diameter
 0.89 in [22.61 mm]

 Weight
 0.1 lbs [45.36 g]

Cable

Cable TypeLMR-240-DBImpedance50 OhmsInner Conductor TypeSolidInner Conductor Material and PlatingCopperDielectric TypePE (F)Number of Shields2

Shield Layer 1 Aluminum Tape
Shield Layer 2 Tinned Copper Braid





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Jacket MaterialPE, BlackJacket Diameter0.24 in [6.1 mm]

One Time Minimum Bend Radius
Repeated Minimum Bend Radius
Bending Moment
Flat Plate Crush
Tensile Strength

Connectors

| Connector 1 | Connector 2 | |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|--|
| SMA Male | N Male | |
| MIL-STD-348 | MIL-STD-348 | |
| 50 Ohms | 50 Ohms | |
| Beryllium Copper, Gold | Brass, Gold | |
| ASTM B488 | | |
| Teflon | PTFE | |
| Passivated Stainless Steel | Brass, Tri-Metal | |
| SAE-AMS-2700 | | |
| Passivated Stainless Steel | Brass, Tri-Metal | |
| SAE-AMS-2700 | | |
| | SMA Male MIL-STD-348 50 Ohms Beryllium Copper, Gold ASTM B488 Teflon Passivated Stainless Steel SAE-AMS-2700 Passivated Stainless Steel | |

0.75 in [19.05 mm] 2.5 in [63.5 mm]

80 lbs [36.29 Kg]

0.25 lbs-ft [0.34 N-m]

20 lbs/in [0.36 Kg/mm]

Environmental Specifications

Temperature

Operating Range -40 to +85 deg C Storage Range -70 to +85 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:





LCCA30272-FT1.5

How to Order



Example: LCCA30272-12 = 12 inches long cable

LCCA30272-100cm = 100 cm long cable

Low Loss SMA Male to N Male Cable Assembly using LMR-240-DB Coax, 1.5 FT with Times Microwave Components 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.

L-com CAD Drawing

