



LCCA30245-FT4

Configuration

- · Connector 1: SMA Male
- Connector 2: TNC Female Reverse Polarity
- · Cable Type: LMR-200-FR

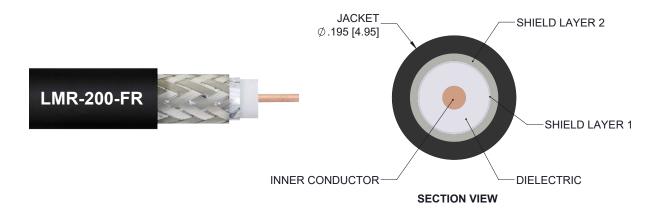
Features

- Using Times Microwave Components
- Max Frequency 5.8 GHz
- Shielding Effectivity > 90 dB
- 83% Phase Velocity

Applications

- General Purpose
- · Laboratory Use
- Antenna Installations

- FRPE Jacket
- · Low Insertion Loss
- · Bend Radius of 2 Inches
- Land Mobile Radio & Other Communication Systems
- · Cellular & Wi-Fi Systems



Description

L-com's LCCA30245-FT4 is a low loss SMA male to reverse polarity TNC female cable assembly using LMR-200-FR coax, 4 FT with Times Microwave components and ships same-day. The LMR-200-FR coax of this SMA cable uses the PE dielectric with a VoP of 83%, 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 TNC cable assembly has a male to female gender configuration with flexible LMR-200-FR 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 female 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 LCCA30245-FT4 L-com Low Loss SMA Male to Reverse Polarity TNC Female Cable Assembly using LMR-200-FR Coax, 4 FT with Times Microwave Components data sheet PDF includes details of the RF product specifications, CAD drawing(s) and dimensions below.





LCCA30245-FT4

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|-------------------------|---------|--------------|---------|-----------------------|
| Frequency Range | DC | | 5.8 | GHz |
| Velocity of Propagation | | 83 | | % |
| RF Shielding | 90 | | | dB |
| Group Delay | | 1.22 [4] | | ns/ft [ns/m] |
| Capacitance | | 24.5 [80.38] | | pF/ft [pF/m] |
| Inductance | | 0.061 [0.2] | | uH/ft [uH/m] |
| DC Resistance Inner Con | ductor | 5.36 [17.59] | | Ohms/1000ft [Ohms/Km] |
| DC Resistance Outer Con | ductor | 4.9 [16.08] | | Ohms/1000ft [Ohms/Km] |
| Jacket Spark | | | 3,000 | 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.) | 0.4 | 0.49 | 0.61 | 0.87 | 1.25 | 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

Cable Assembly

 Length
 48 in [121.92 cm]

 Diameter
 0.57 in [14.48 mm]

Cable

Cable Type LMR-200-FR Impedance 50 Ohms Inner Conductor Type Solid Inner Conductor Material and Plating Copper Dielectric Type PE Number of Shields 2

Shield Layer 1 Aluminum Tape
Shield Layer 2 Tinned Copper Braid





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Jacket Material Jacket Diameter

One Time Minimum Bend Radius Repeated Minimum Bend Radius Bending Moment Flat Plate Crush Tensile Strength FRPE, Black 0.195 in [4.95 mm]

0.5 in [12.7 mm] 2 in [50.8 mm] 2 lbs-ft [2.71 N-m] 15 lbs/in [0.27 Kg/mm] 40 lbs [18.14 Kg]

Connectors

| Description | Connector 1 | Connector 2 |
|--------------------------------------|----------------------------|-----------------------------|
| Туре | SMA Male | TNC Female Reverse Polarity |
| Specification | MIL-STD-348 | |
| Impedance | 50 Ohms | 50 Ohms |
| Contact Material and Plating | Beryllium Copper, Gold | Beryllium Copper, Gold |
| Contact Plating Specification | ASTM B488 | |
| Dielectric Type | Teflon | PTFE |
| Outer Conductor Material and Plating | | Brass, Tri-Metal |
| Body Material and Plating | Passivated Stainless Steel | Brass, Tri-Metal |
| Body Plating Specification | SAE-AMS-2700 | |
| Coupling Nut Material and Plating | Passivated Stainless Steel | |
| Coupling Nut Plating Specification | SAE-AMS-2700 | |
| Hex Size | 5/16 Inch | |

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:





LCCA30245-FT4

How to Order



Example: LCCA30245-12 = 12 inches long cable

LCCA30245-100cm = 100 cm long cable

Low Loss SMA Male to Reverse Polarity TNC Female Cable Assembly using LMR-200-FR Coax, 4 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

