



#### LCCA30056-FT3

# Configuration

Connector 1: BNC MaleConnector 2: BNC FemaleCable Type: RG178

## **Features**

- · Max Frequency 1 GHz
- 70% VoP

### **Applications**

· General Purpose

- FEP Jacket
- · Heat Shrink Strain Relief
- · Laboratory Use



#### **Description**

L-com's LCCA30056-FT3 is a BNC male to BNC female cable assembly using RG178 coax, 3 FT and ships same-day. The RG178 coax of this BNC cable uses the PTFE dielectric with a VoP of 70%. These flexible RF cable assemblies are ideal for applications where flexure is required. Our L-com BNC to BNC cable assembly has a male to female gender configuration with flexible RG178 series coax and operates to 1 GHz. The shielding of this BNC cable is comprised of silver plated copper braid.

Custom versions of this BNC male to BNC 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 LCCA30056-FT3 L-com BNC Male to BNC Female Cable Assembly using RG178 Coax, 3 FT data sheet PDF includes details of the RF product specifications, CAD drawing(s) and dimensions below.





# LCCA30056-FT3

# **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		1,000	MHz
VSWR			1.35:1	
Velocity of Propagation		70		%
Capacitance		29.4 [96.46]		pF/ft [pF/m]
Operating Voltage (AC)			500	Vrms

# **Specifications by Frequency**

Description	F1	F2	F3	F4	F5	Units	
Frequency	50	100	250	500	1,000	MHz	
Insertion Loss (Max.)	0.55	0.62	0.83	1.12	1.54	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 is estimated as 0.1 dB per connector.

# **Mechanical Specifications**

#### **Cable Assembly**

Length 36 in [914.4 mm] Diameter 0.072 in [1.83 mm]

#### Cable

Cable Type **RG178** Impedance 50 Ohms Inner Conductor Type Stranded Inner Conductor Material and Plating Copper, Silver Dielectric Type **PTFE** Number of Shields

Shield Layer 1 Silver Plated Copper Braid Jacket Material FEP, Tan

Jacket Diameter 0.072 in [1.83 mm]

Repeated Minimum Bend Radius 0.4 in [10.16 mm]





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# **Connectors**

Description	Connector 1	Connector 2
Туре	BNC Male	BNC Female
Specification	MIL-STD-348A	
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold	
Contact Plating Specification	30 µin minimum	
Dielectric Type	PTFE	
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	100 μin minimum	
Coupling Nut Material and Plating	Brass, Nickel	
Coupling Nut Plating Specification	100 µin minimum	

# **Environmental Specifications**

Temperature

Operating Range

-55 to +200 deg C

Compliance Certifications (see product page for current document)

# **Plotted and Other Data**

Notes:

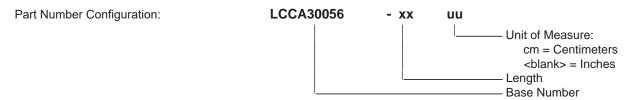
• Values at 25°C, sea level.





## LCCA30056-FT3

#### **How to Order**



Example: LCCA30056-12 = 12 inches long cable

LCCA30056-100cm = 100 cm long cable

BNC Male to BNC Female Cable Assembly using RG178 Coax, 3 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.

# **L-com CAD Drawing**

