

BNC Male to BNC Male Cable Assembly using RG178 Coax, 4 FT



**LCCA30055-FT4**

**Configuration**

- Connector 1: BNC Male
- Connector 2: BNC Male
- Cable Type: RG178

**Features**

- Max Frequency 1 GHz
- 70% VoP
- FEP Jacket
- Heat Shrink Strain Relief

**Applications**

- General Purpose
- Laboratory Use



**Description**

L-com's LCCA30055-FT4 is a BNC male to BNC male cable assembly using RG178 coax, 4 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 male 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 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 LCCA30055-FT4 L-com BNC Male to BNC Male Cable Assembly using RG178 Coax, 4 FT data sheet PDF includes details of the RF product specifications, CAD drawing(s) and dimensions below.

BNC Male to BNC Male Cable Assembly using RG178 Coax, 4 FT



## LCCA30055-FT4

### 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.)	0.66	0.76	1.04	1.43	1.98	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 48 in [121.92 cm]  
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 1  
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]

BNC Male to BNC Male Cable Assembly using RG178 Coax, 4 FT



## LCCA30055-FT4

### Connectors

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

BNC Male to BNC Male Cable Assembly using RG178 Coax, 4 FT



**LCCA30055-FT4**

**How to Order**

Part Number Configuration:

**LCCA30055 - xx uu**



Example: LCCA30055-12 = 12 inches long cable  
LCCA30055-100cm = 100 cm long cable

BNC Male to BNC Male Cable Assembly using RG178 Coax, 4 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.

# BNC Male to BNC Male Cable Assembly using RG178 Coax, 4 FT

## L-com CAD Drawing

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	01/31/2020	SELLIS

  

LENGTH MEASURED FROM CONTACT TO CONTACT

BNC MALE

2x HEAT SHRINK TUBE, BLACK

RG178 COAX CABLE

LABEL

WWW.L-COM.COM  
L-COM P/N  
(SEE NOTE 1)

BNC MALE

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

**TOLERANCES:**

.X = ±.2 [ .008 ]	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% / -0	

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

**THIRD-ANGLE PROJECTION**

THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF L-COM GLOBAL CONNECTIVITY. ALL RIGHTS RESERVED.

SHEET 1 OF 1

SCALE N/A

**NOTES:**

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

THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.

**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 CAGE CODE [DRAWN BY] PART NUMBER LCCA30055

REV A