

BNC Male to BNC Female Cable Assembly using RG178 Coax, 10 FT

LCCA30056-FT10



Configuration

- Connector 1: BNC Male
- Connector 2: BNC Female
- 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 LCCA30056-FT10 is a BNC male to BNC female cable assembly using RG178 coax, 10 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-FT10 L-com BNC Male to BNC Female Cable Assembly using RG178 Coax, 10 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 | | 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.) | 1.35 | 1.58 | 2.28 | 3.26 | 4.65 | 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 | 120 in [304.8 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] |
|------------------------------|-------------------|

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Connectors

| Description | Connector 1 | Connector 2 |
|------------------------------------|-----------------|---------------|
| Type | 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.

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LCCA30056-FT10

How to Order

Part Number Configuration:

LCCA30056 - xx uu

Unit of Measure:
cm = Centimeters
<blank> = Inches
Length
Base Number

Example: LCCA30056-12 = 12 inches long cable
LCCA30056-100cm = 100 cm long cable

BNC Male to BNC Female Cable Assembly using RG178 Coax, 10 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 Female Cable Assembly using RG178 Coax, 10 FT

L-com CAD Drawing

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

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 = ± 9% 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 FRONT OF THE CONNECTOR.

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| SIZE A | CAGE CODE DRAWN BY 43321 MVEERAPPAN | LCCA30056 | |