

N Male to N Female Bulkhead Cable Using 402SS Series Coax with Heavy Duty Boot, 6.0 ft

LCCA30010-FT6



Configuration

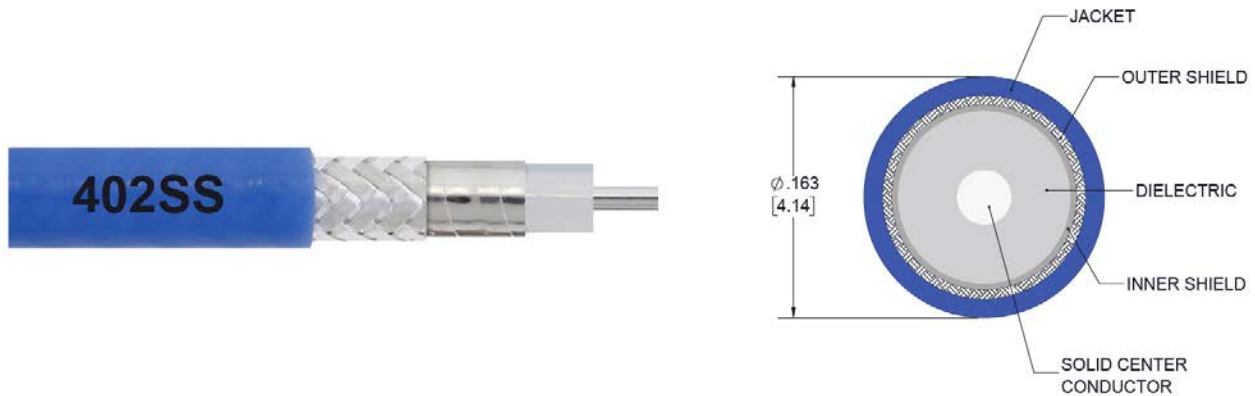
- Connector 1: N Male
- Connector 2: N Female Bulkhead
- Cable Type: 402SS Series

Features

- Max Frequency 18 GHz
- Shielding Effectivity > 110dB
- 70% Phase Velocity
- Double Shielded
- FEP Jacket
- Wire Braid over Spiral Strip Shield
- Flexible Alternative to .141 Semi-Rigid
- Heavy Duty Heat Shrink Strain Relief Boot
- Precision Stainless Steel Connectors

Applications

- General Purpose
- Laboratory Use
- Flexible RF Interconnect
- Automated (ATE) Test Systems



Description

L-com's LCCA30010-FT6 is a N male to N female bulkhead cable using 402SS series coax with heavy duty boot, 6.0 ft and ships same-day. The 402SS series coax of this N 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 N to N cable assembly has a male to female gender configuration with flexible 402SS series series coax and operates to 18 GHz. The double shield of this N cable is layered by silver plated copper braid over silver plated copper tape providing excellent shielding effectiveness greater than 110dB. L-com's RF cable assembly with N bulkhead interface enables system designers to have external connections on their product enclosures or to be used for other rack mount and panel mount applications. L-com's Cable Assembly LCCA30010 is an N male to N female bulkhead, 6.0 ft cable using 402SS Series coax with Heavy Duty Boot that ships same-day. L-com's flexible RF cable assemblies are ideal for applications where tight bends and flexure are required. This L-com N to N cable assembly has a male to female gender configuration with 50 ohm flexible 402SS Series coax and operates to 18 GHz. Our RF cable assembly with N bulkhead interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications. Highly durable stainless-steel connectors and heavy-duty booting extend the life of this versatile flexible cable assembly. The double shield includes a silver plated copper braid over a silver plated copper spiral strip providing excellent shielding effectiveness greater than 110dB.

Custom versions of this cable assembly along with the rest of L-com's RF cable assemblies can be built and shipped same day. Other available RF cable

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assembly value added services 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 custom cable quotes.

Custom versions of this N male to N 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 LCCA30010-FT6 L-com N Male to N Female Bulkhead Cable Using 402SS Series Coax with Heavy Duty Boot, 6.0 ft data sheet PDF includes details of the RF product specifications, CAD drawing(s) and dimensions below.

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|-------------------------|---------|--------------|---------|--------------|
| Frequency Range | DC | | 18 | GHz |
| VSWR | | | 1.4:1 | |
| Velocity of Propagation | | 70 | | % |
| RF Shielding | 110 | | | dB |
| 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 | 3 | 5 | 10 | 18 | | GHz |
| Insertion Loss (Max.) | 1.602 | 2.057 | 3.022 | 4.237 | | 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 $0.1 \cdot \text{SQRT}(F \cdot \text{GHz})$ dB for the N Type Male connector and $0.07 \cdot \text{SQRT}(F \cdot \text{GHz})$ dB for the N Female Bulkhead connector.

Mechanical Specifications

Cable Assembly

| | |
|----------|--------------------|
| Length | 72 in [182.88 cm] |
| Diameter | 0.315 in [8 mm] |
| Weight | 0.4 lbs [181.44 g] |

Cable

| | |
|--------------------------------------|----------------|
| Cable Type | 402SS Series |
| Impedance | 50 Ohms |
| Inner Conductor Type | Stranded |
| Inner Conductor Material and Plating | Copper, Silver |

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| | |
|------------------------------|----------------------------|
| Dielectric Type | PTFE |
| Number of Shields | 2 |
| Shield Layer 1 | Silver Plated Copper Tape |
| Shield Layer 2 | Silver Plated Copper Braid |
| Jacket Material | FEP, Blue |
| Jacket Diameter | 0.163 in [4.14 mm] |
| Repeated Minimum Bend Radius | 1 in [25.4 mm] |

Connectors

| Description | Connector 1 | Connector 2 |
|------------------------------------|-----------------------------|-----------------------------|
| Type | N Male | N Female Bulkhead |
| Specification | MIL-STD-348A | MIL-STD-348A |
| Impedance | 50 Ohms | 50 Ohms |
| Contact Material and Plating | Brass, Gold | Brass, Gold |
| Contact Plating Specification | 50 µin minimum | 50 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 |
| Boot Material | Heavy Duty Heat Shrink Boot | Heavy Duty Heat Shrink Boot |

Environmental Specifications

Temperature

Operating Range -55 to +165 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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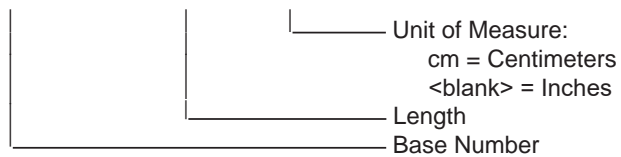


LCCA30010-FT6

How to Order

Part Number Configuration:

LCCA30010 - xx uu



Example: LCCA30010-12 = 12 inches long cable
LCCA30010-100cm = 100 cm long cable

N Male to N Female Bulkhead Cable Using 402SS Series Coax with Heavy Duty Boot, 6.0 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.

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L-com CAD Drawing

| REVISIONS | | |
|-----------|-------------|--------------------|
| REV. | DESCRIPTION | DATE |
| B | ECN 10403 | 3/3/2020 |
| | | APPROVED SELLIS |

TYPE N MALE

TYPE N FEMALE BULKHEAD

RECOMMENDED PANEL CUTOUT

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

402SS SERIES

2X HEAVY DUTY SHRINK TUBE

LENGTH MEASURED FROM CONTACT TO FLANGE

.539±.002 [13.69±0.05]

φ .632±.002

RECOMMENDED [16.05±0.05]

B

L-com
an INFINITE brand

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THIRD-ANGLE PROJECTION

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SHEET 1 OF 1

SCALE N/A

| | | | |
|------|-----------|------------|-----------|
| SIZE | CAGE CODE | DRAWN BY | ITEM NO. |
| A | 43321 | DFRISIELLO | LCCA30010 |
| | | | REV B |

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

TOLERANCES:

| | | |
|--------------|-------|-------------|
| X = ±.2 | [.06] | FRACTIONS |
| .XX = ±.02 | [.51] | ±.1/32 |
| .XXX = ±.005 | [.15] | ANGLES ± 1° |

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% L / -0 |

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

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.

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