

3-Slot Solder/Clamp Plug To Plug 30-2001-LC Twinax, 48 Inch Cable



**LC3CA2009-48**

**Configuration**

- Connector 1: TRB 3-Slot Plug
- Connector 2: TRB 3-Slot Plug
- Cable Type: 30-02001-LC

**Features**

- MIL-STD-1553
- -20°C to +75°C
- 78 ohms

**Applications**

- MIL-STD-1553
- Laboratory Implementations
- Data

**Description**

L-com's LC3CA2009-48 is a 3-Slot solder/clamp plug to plug 30-2001-LC twinax, 48 inch cable and ships same-day. These flexible RF cable assemblies are ideal for applications where flexure is required. Our L-com TRB 3-Slot to TRB 3-Slot cable assembly has a plug to plug gender configuration with 78 Ohm flexible 30-02001-LC series coax and operates to 400 MHz.

Custom versions of this TRB 3-Slot plug to TRB 3-Slot plug 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 LC3CA2009-48 L-com 3-Slot Solder/Clamp Plug To Plug 30-2001-LC Twinax, 48 Inch Cable 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      |              | 400     | MHz          |
| Capacitance            |         | 19.7 [64.63] |         | pF/ft [pF/m] |
| Operating Voltage (AC) |         |              | 1,000   | Vrms         |

**Specifications by Frequency**

| Description           | F1   | F2  | F3  | F4   | F5   | Units |
|-----------------------|------|-----|-----|------|------|-------|
| Frequency             | 10   | 50  | 100 | 200  | 400  | MHz   |
| Insertion Loss (Typ.) | 0.29 | 0.4 | 0.5 | 0.64 | 0.84 | dB    |

**Electrical Specification Notes:**

The Insertion Loss data above is based on the performance specifications of the coax and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1 dB per connector.

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## LC3CA2009-48

### Mechanical Specifications

#### Cable Assembly

|         |                      |
|---------|----------------------|
| Length* | 48 in [121.92 cm]    |
| Weight  | 0.262 lbs [118.84 g] |

#### Cable

|                                      |                      |
|--------------------------------------|----------------------|
| Cable Type                           | 30-02001-LC          |
| Impedance                            | 78 Ohms              |
| Inner Conductor Type                 | Stranded             |
| Inner Conductor Material and Plating | Copper, Silver       |
| Dielectric Type                      | PE                   |
| Shield Layer 1                       | Silver Plated Copper |
| Jacket Material                      | PVC, Blue            |

|                              |                    |
|------------------------------|--------------------|
| One Time Minimum Bend Radius | 2.42 in [61.47 mm] |
|------------------------------|--------------------|

### Connectors

| Description                           | Connector 1                  | Connector 2                  |
|---------------------------------------|------------------------------|------------------------------|
| Type                                  | TRB 3-Slot Plug              | TRB 3-Slot Plug              |
| Impedance                             | 78 Ohms                      | 78 Ohms                      |
| Contact Material and Plating          | Bronze, Gold 30 micro inches | Bronze, Gold 30 micro inches |
| Contact Plating Specification         | ASTM-B-488                   | ASTM-B-488                   |
| Dielectric Type                       | Teflon                       | Teflon                       |
| Outer Conductor Material and Plating  | Phosphor Bronze, Gold        | Phosphor Bronze, Gold        |
| Outer Conductor Plating Specification | 30 micro inches              | 30 micro inches              |
| Body Material and Plating             | Brass, Nickel                | Brass, Nickel                |
| Body Plating Specification            | ASTM-B-733                   | ASTM-B-733                   |

### Environmental Specifications

#### Temperature

|                 |                  |
|-----------------|------------------|
| Operating Range | -20 to +75 deg C |
|-----------------|------------------|

**Compliance Certifications** (see [product page](#) for current document)

### Plotted and Other Data

Notes:

3-Slot Solder/Clamp Plug To Plug 30-2001-LC Twinax, 48 Inch Cable

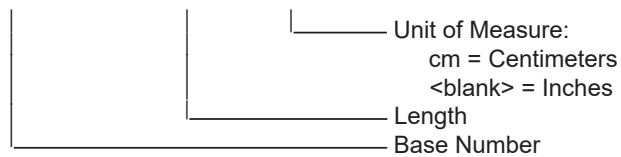


## LC3CA2009-48

### How to Order

Part Number Configuration:

**LC3CA2009 - xx uu**

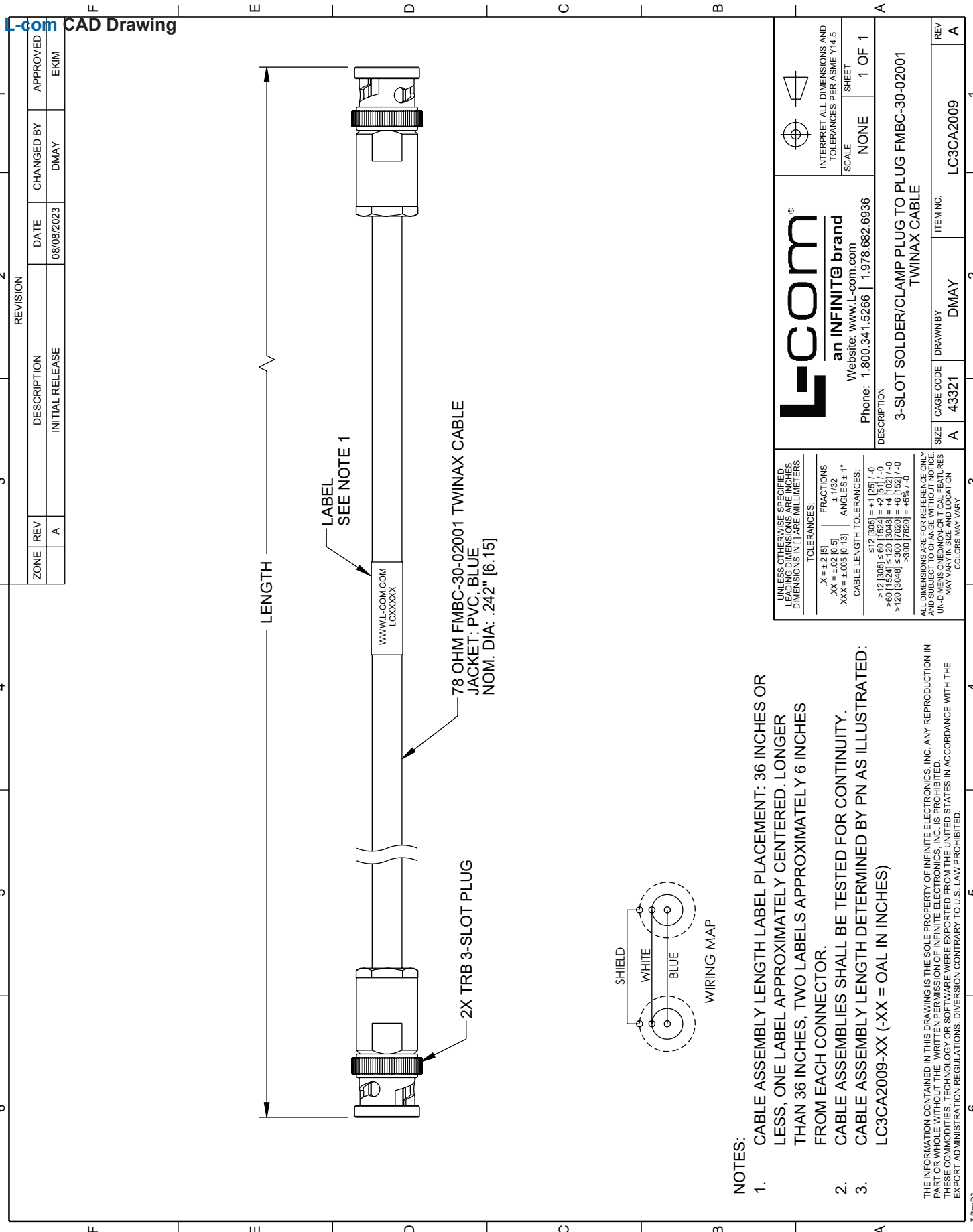


Example: LC3CA2009-12 = 12 inches long cable  
LC3CA2009-100cm = 100 cm long cable

3-Slot Solder/Clamp Plug To Plug 30-2001-LC Twinax, 48 Inch Cable 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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| ZONE | REV | DESCRIPTION     | DATE       | CHANGED BY | APPROVED |
|------|-----|-----------------|------------|------------|----------|
|      | A   | INITIAL RELEASE | 08/08/2023 | DMAY       | EKIM     |

| REVISION |  |
|----------|--|
| 1        |  |

| SIZE | CAGE CODE | DRAWN BY | ITEM NO.  |
|------|-----------|----------|-----------|
| A    | 43321     | DMAY     | LC3CA2009 |

| SCALE | SHEET  |
|-------|--------|
| NONE  | 1 OF 1 |

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

3-SLOT SOLDER/CLAMP PLUG TO PLUG FMBC-30-02001 TWINAX CABLE

Phone: 1.800.341.5266 | 1.978.682.6936

Website: www.L-com.com

an INFINITE brand

L-com

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

TOLERANCES:

XX = ±.02 (0.5) FRACTIONS

.XX = ±.005 (0.13) ANGLES ± 1°

CABLE LENGTH TOLERANCES:

<12 [305] ≤ 60 [1524] = +1 [25] / -0

>60 [1524] ≤ 120 [3048] = +4 [102] / -0

>120 [3048] ≤ 300 [7620] = +6 [152] / -0

>300 [7620] = +5% / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE. UNDIMENSIONED NON-CRITICAL FEATURES MAY VARY. COLORS MAY VARY.

NOTES:

1. CABLE ASSEMBLY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROXIMATELY CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY 6 INCHES FROM EACH CONNECTOR.

2. CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.

3. CABLE ASSEMBLY LENGTH DETERMINED BY PN AS ILLUSTRATED: LC3CA2009-XX (-XX = OAL IN INCHES)

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