

1553 TRB 3-Lug Plug to TRB 3-Slot Jack Cable
78 Ohm FMBC-30-02001 Coax in 48 Inch with Bend Relief

The 78 ohm TRB 3-Lug plug to 78 ohm TRB 3-Slot jack 48 inch cable using 78 ohm FMBC-30-02001 twinax, part number FM3MP2396-48, from Fairview Microwave is in-stock and ships same day. This Fairview TRB 3-Lug to TRB 3-Slot cable assembly has a plug to jack gender configuration with 78 ohm flexible FMBC-30-02001 twinax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FM3MP2396-48 TRB 3-Lug plug to TRB 3-Slot jack cable assembly operates to 400 MHz. The FM3MP2396 cable assembly consists of a Bend Relief 3-slot solder/clamp TRB plug to a Bend Relief 3-Lug TRB Solder/Clamp Jack for FMBC-30-02001, that is a standard lab-rated PVC cable for MIL-STD-1553 applications. It features a larger diameter cable (0.242" O.D.). These cable assemblies come with a 1.700" steel spring-style bend relief that helps to minimize cable damage when exceeding the cables minimum bend radius. These cable assemblies come with a 1.700" steel spring-style bend relief that helps to minimize cable damage when exceeding the cables minimum bend radius. These assemblies are built to withstand severe shocks and vibrations.

Custom versions of most RF cable assemblies can be built and shipped same day. Custom cable assembly lengths can be obtained by specifying the desired length on the web site at time of order or by contacting a sales representative. Other RF cable assembly value added services including connector orientation or clocking, heat shrink booting and labeling are also available. RF testing can also be performed to document the electrical performance of your cable assembly.

Electrical Specifications

| Description | Min | Typ | Max | Units |
|------------------------|-----|--------------|-------|--------------|
| Frequency Range | DC | | 400 | MHz |
| Capacitance | | 19.7 [64.63] | | pF/ft [pF/m] |
| Operating Voltage (AC) | | | 1,000 | Vrms |

Performance 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.

Mechanical Specifications
Cable Assembly

Length* 48 in [121.92 cm]
 Weight 0.333 lbs [151.05 g]

Cable

Cable Type FMBC-30-02001
 Impedance 78 Ohms
 Inner Conductor Type Stranded
 Inner Conductor Material and Plating Copper, Silver


Configuration:

- TRB 3-Lug Plug
- TRB 3-Slot Jack
- FMBC-30-02001

Features:

- Max Frequency 400 MHz
- PVC Jacket
- MIL-STD-1553
- -20°C to +75°C
- 78 ohms
- Lab rated
- Bend Relief

Applications:

- General Purpose
- Laboratory Use
- MIL-STD-1553
- Data
- Lab applications

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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-Lug Plug Bayonet | TRB 3-Slot Jack Bayonet |
| Option | Bend Relief Spring | Bend Relief Spring |
| Impedance | 78 Ohms | 78 Ohms |
| Contact Material & Plating | Bronze, Gold 30 micro inches | Bronze, Gold 30 micro inches |
| Contact Plating Spec. | ASTM-B-488 | ASTM-B-488 |
| Dielectric Type | Teflon | Teflon |
| Outer Cond Material & Plating | Phosphor Bronze, Gold | Phosphor Bronze, Gold |
| Outer Cond Plating Spec. | 30 micro inches | 30 micro inches |
| Body Material & Plating | Brass, Nickel | Brass, Nickel |
| Body Plating Spec. | 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:

How to Order

Part Number Configuration:

FM3MP2396 - xx uu

cm = Centimeters
<blank> = Inches
Length

Example: FM3MP2396-12 = 12 inches long cable
FM3MP2396-100cm = 100 cm long cable

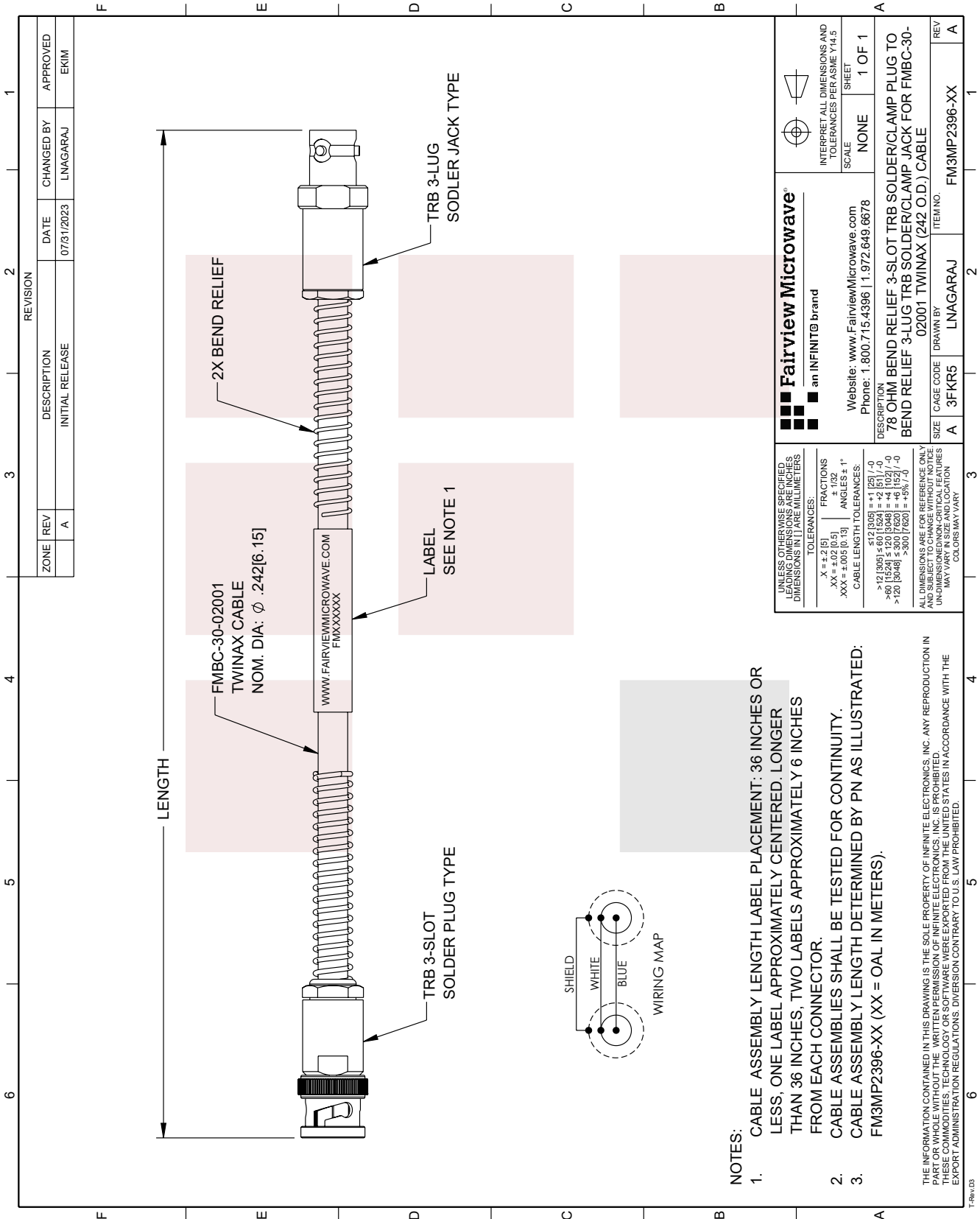
1553 TRB 3-Lug Plug to TRB 3-Slot Jack Cable 78 Ohm FMBC-30-02001 Coax in 48 Inch with Bend Relief from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [1553 TRB 3-Lug Plug to TRB 3-Slot Jack Cable 78 Ohm FMBC-30-02001 Coax in 48 Inch with Bend Relief FM3MP2396-48](https://www.fairviewmicrowave.com/1553-trb-3-lug-plug-to-trb-3-slot-jack-cable-78-ohm-fm3mp2396-48)

URL: <https://www.fairviewmicrowave.com/1553-trb-3-lug-plug-to-trb-3-slot-jack-cable-78-ohm-fm3mp2396-48-p.aspx>

The information contained in 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 implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.





| REVISION | | DATE | CHANGED BY | APPROVED |
|-----------------|-----|------------|------------|----------|
| ZONE | REV | | | |
| | A | 07/31/2023 | LNAGARAJ | EKIM |
| DESCRIPTION | | | | |
| INITIAL RELEASE | | | | |

| | | |
|---|-----------|---|
| <p>Fairview Microwave[®] an INFINIT[®] brand</p> | | <p>INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5</p> |
| Website: www.FairviewMicrowave.com Phone: 1.800.715.4396 1.972.649.6678 | | SCALE: NONE SHEET: 1 OF 1 |
| DESCRIPTION: 78 OHM BEND RELIEF 3-SLOT TRB SOLDER/CLAMP PLUG TO BEND RELIEF 3-LUG TRB SOLDER/CLAMP JACK FOR FMBC-30-02001 TWINAX (242 O.D.) CABLE | | |
| SIZE | CAGE CODE | ITEM NO. |
| A | 3FKR5 | FM3MP2396-XX |

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

TOLERANCES:

| | |
|-----------------------|-------------|
| X = ± 2 [6] | FRACTIONS |
| .XX = ± 0.0 [0.5] | ± 1/32 |
| .XXX = ± 0.005 [0.13] | ANGLES ± 1° |

CABLE LENGTH TOLERANCES:

| | | |
|--------------|---------------|-----------------|
| > 12 [305] | ± 60 [1524] | ± 2 [51] / -0 |
| > 6 [152] | ± 30 [762] | ± 1 [25] / -0 |
| > 120 [3048] | ± 300 [7620] | ± 6 [152] / -0 |
| > 300 [7620] | ± 600 [15240] | ± 12 [305] / -0 |

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

- NOTES:
- 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.
 - CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
 - CABLE ASSEMBLY LENGTH DETERMINED BY PN AS ILLUSTRATED: FM3MP2396-XX (XX = OAL IN METERS).

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