

## Lead Free Bend Relief 3-Lug TRB Bulkhead Insulated Jack to Jack for 78 Ohm FMBC-30-02001 Cable

The 78 ohm TRB 3-Lug jack bulkhead to 78 ohm TRB 3-Lug jack bulkhead cable using 78 ohm FMBC-30-02001 twinax, part number FM3MSA00556, from Fairview Microwave is in-stock and ships same day. This Fairview TRB 3-Lug to TRB 3-Lug cable assembly has a jack 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 FM3MSA00556 TRB 3-Lug jack to TRB 3-Lug jack cable assembly operates to 400 MHz. Our RF cable assembly with TRB 3-Lug 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.

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.) | 0.021 | 0.05 | 0.075 | 0.11 | 0.16 | dB/ft |
|                       | 0.07  | 0.16 | 0.25  | 0.36 | 0.52 | dB/m  |

#### 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\* 0 in [0 mm]  
 Weight 0.1 lbs [45.36 g]

#### Cable

Cable Type FMBC-30-02001  
 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]



### Configuration:

- TRB 3-Lug Jack Bulkhead
- TRB 3-Lug Jack Bulkhead
- FMBC-30-02001

### Features:

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

### Applications:

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

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**Connectors**

| Description                   | Connector 1                  | Connector 2                  |
|-------------------------------|------------------------------|------------------------------|
| Type                          | TRB 3-Lug Jack Bayonet       | TRB 3-Lug Jack Bayonet       |
| Option                        | Bend Relief Spring           | Bend Relief Spring           |
| Mount Method                  | Bulkhead                     | Bulkhead                     |
| 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)

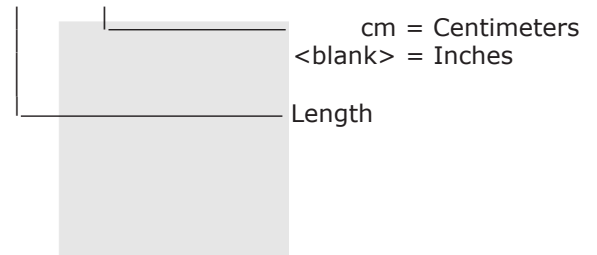
**Plotted and Other Data**

Notes:

**How to Order**

Part Number Configuration: **FM3MSA00556 - xx uu**

Example: FM3MSA00556-12 = 12 inches long cable  
FM3MSA00556-100cm = 100 cm long cable

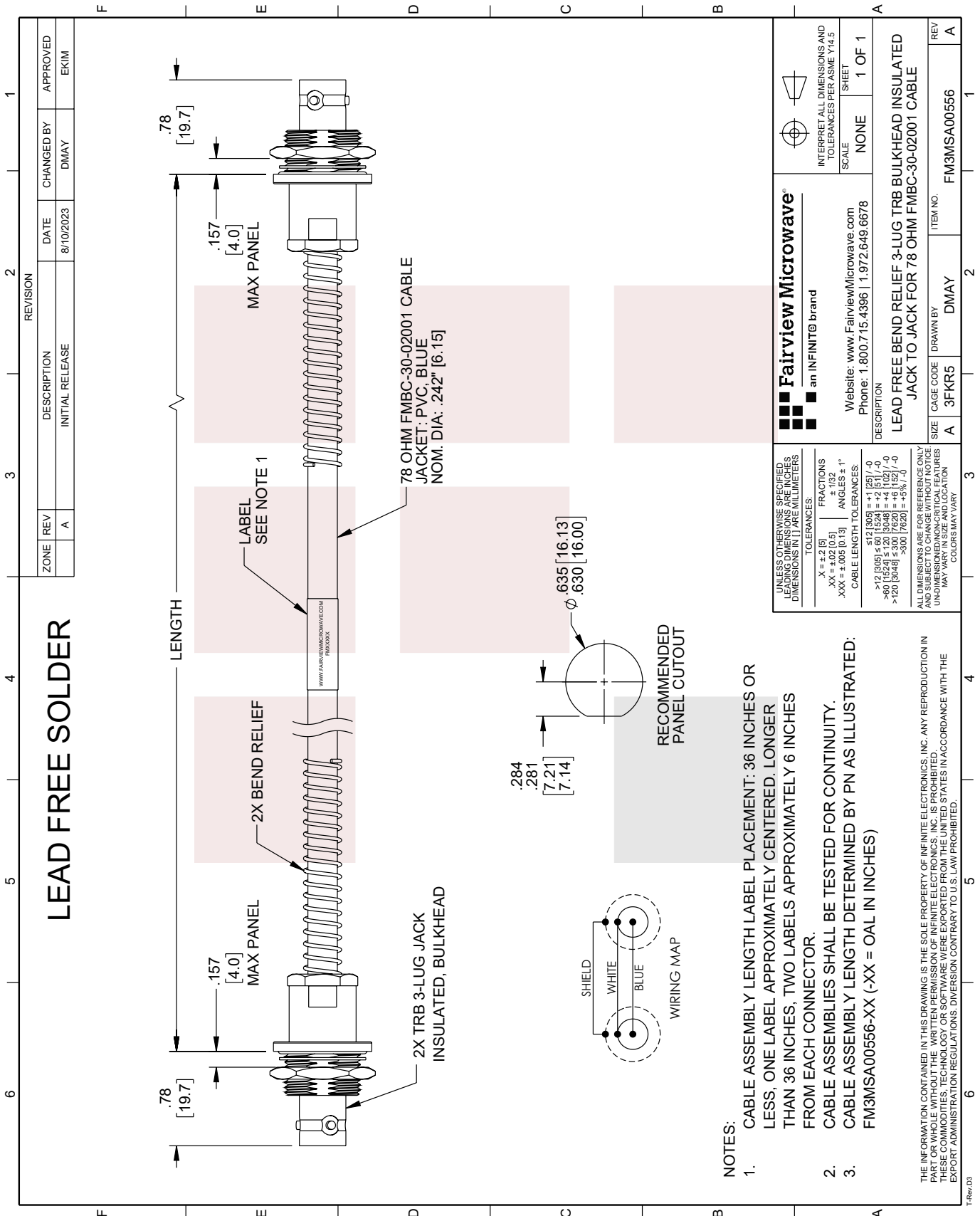


Lead Free Bend Relief 3-Lug TRB Bulkhead Insulated Jack to Jack for 78 Ohm FMBC-30-02001 Cable from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the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

Click the following link to obtain additional part information: [Lead Free Bend Relief 3-Lug TRB Bulkhead Insulated Jack to Jack for 78 Ohm FMBC-30-02001 Cable FM3MSA00556](#)

URL: <https://www.fairviewmicrowave.com/1553-trb-3-lug-jack-bulkhead-to-trb-3-lug-jack-bulkhead-cable-78-ohm-fm3msa00556-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.



**LEAD FREE SOLDER**

| ZONE | REV | DESCRIPTION     | DATE      | CHANGED BY | APPROVED |
|------|-----|-----------------|-----------|------------|----------|
|      | A   | INITIAL RELEASE | 8/10/2023 | DMAY       | EKIM     |

| REVISION | DATE | CHANGED BY | APPROVED |
|----------|------|------------|----------|
|          |      |            |          |

|   |                  |   |
|---|------------------|---|
| <p><b>Fairview Microwave</b><br/>an INFINIT<sup>®</sup> brand</p> <p>Website: <a href="http://www.FairviewMicrowave.com">www.FairviewMicrowave.com</a><br/>Phone: 1.800.715.4396   1.972.649.6678</p> |                  | <p>INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5</p> <p>SCALE: NONE</p> <p>SHEET: 1 OF 1</p> |
| <p>DESCRIPTION:<br/><b>LEAD FREE BEND RELIEF 3-LUG TRB BULKHEAD INSULATED JACK TO JACK FOR 78 OHM FMBC-30-02001 CABLE</b></p>   |                  |   |
| SIZE: A   | CAGE CODE: 3FKR5 | ITEM NO.: FM3MSA00556   |
| REV: A  | DRAWN BY: DMAY   | REV: A  |

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

TOLERANCES:  
 .X = ±.2 [5]  
 .XX = ±.02 [0.5]  
 .XXX = ±.005 [0.13]

FRACTIONS: ± 1/32  
 ANGLES: ± 1°

CABLE LENGTH TOLERANCES:  
 ≤12 [305] = ±.1 [25] / -0  
 ≤12 [305] ≤ 60 [1524] = ±.2 [51] / -0  
 ≤60 [1524] ≤ 300 [7620] = ±.4 [102] / -0  
 >300 [7620] = ±.6 [152] / -0  
 >720 [18288] = ±.8 [203] / -0  
 >300 [7620] = +.5% / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE. UNDIMENSIONED NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. 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: FM3MSA00556-XX (-XX = OAL IN INCHES)

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