

## Lead Free 3-Lug TRB Bulkhead Insulated Jack with Blunt Cut for 78 Ohm M17/176-00002, 36" Cable

The 78 ohm TRB 3-Lug jack bulkhead to 78 ohm Blunt cut genderless 36 inch cable using 78 ohm M17/176-00002 twinax, part number FM3MSA00451-36, from Fairview Microwave is in-stock and ships same day. This Fairview TRB 3-Lug to Blunt Cut cable assembly has a jack to genderless gender configuration with 78 ohm flexible M17/176-00002 twinax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FM3MSA00451-36 TRB 3-Lug jack to Blunt cut genderless cable assembly operates to 10 GHz. 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		10	GHz
Capacitance		24 [78.74]		pF/ft [pF/m]
Operating Voltage (AC)			750,000	Vrms

### Mechanical Specifications

#### Cable Assembly

Length\* 36 in [914.4 mm]  
Weight 0.104 lbs [47.17 g]

#### Cable

Cable Type M17/176-00002  
Impedance 78 Ohms  
Inner Conductor Type Stranded  
Inner Conductor Material and Plating Copper, Silver  
Dielectric Type PTFE  
Shield Layer 1 Silver Plated Copper  
Jacket Material PFA, Blue

One Time Minimum Bend Radius 1.5 in [38.1 mm]



### Configuration:

- TRB 3-Lug Jack Bulkhead
- Blunt Cut Genderless
- M17/176-00002

### Features:

- Max Frequency 10 GHz
- PFA Jacket
- MIL-STD-1553
- -55°C to +200°C
- 78 ohms

### Applications:

- General Purpose
- Laboratory Use
- Vehicle High Temperature
- Data
- MIL-STD-1553

Fairview Microwave  
301 Leora Ln., Suite 100  
Lewisville, TX 75056  
Tel: 1-800-715-4396 / (972) 649-6678  
Fax: (972) 649-6689  
[www.fairviewmicrowave.com](http://www.fairviewmicrowave.com)  
[sales@fairviewmicrowave.com](mailto:sales@fairviewmicrowave.com)

**Connectors**

Description	Connector 1	Connector 2
Type	TRB 3-Lug Jack BayonetBlunt Cut Genderless Other	
Option	Insulated Bulk Head	
Mount Method	Bulkhead	
Impedance	78 Ohms	78 Ohms
Contact Material & Plating	Bronze, Gold 30 micro inches	
Contact Plating Spec.	ASTM-B-488	
Dielectric Type	Teflon	
Outer Cond Material & Plating	Phosphor Bronze, Gold	
Outer Cond Plating Spec.	30 micro inches	
Body Material & Plating	Brass, Nickel	
Body Plating Spec.	ASTM-B-733	

**Environmental Specifications**

**Temperature**

Operating Range -55 to +200 deg C

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

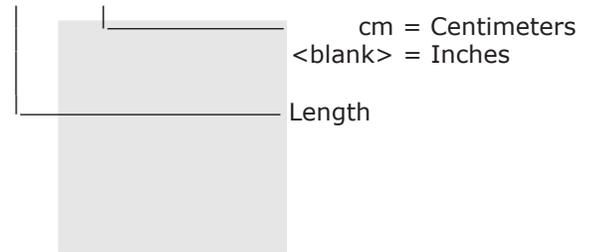
**Plotted and Other Data**

Notes:

**How to Order**

Part Number Configuration: **FM3MSA00451 - xx uu**

Example: FM3MSA00451-12 = 12 inches long cable  
FM3MSA00451-100cm = 100 cm long cable

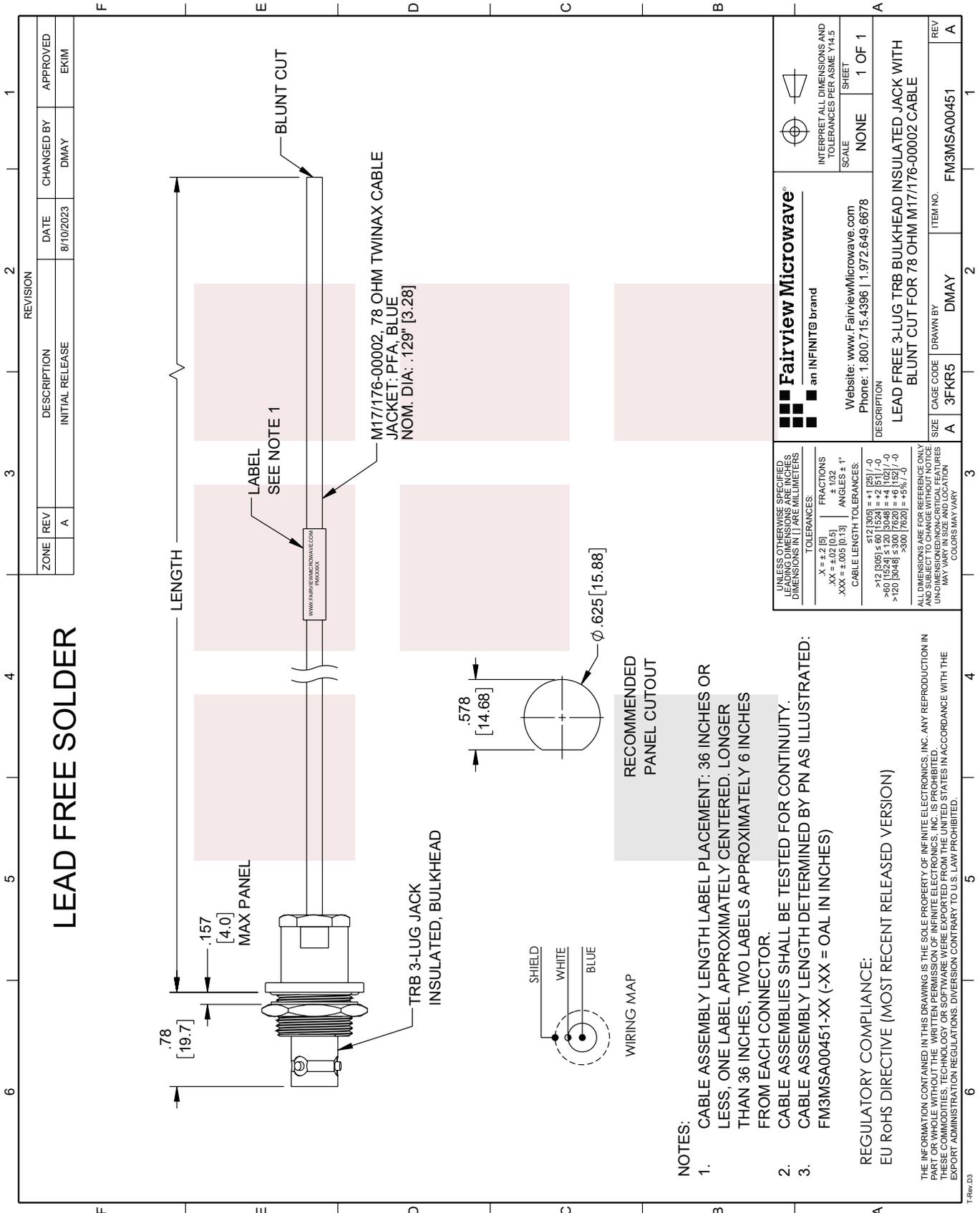


Lead Free 3-Lug TRB Bulkhead Insulated Jack with Blunt Cut for 78 Ohm M17/176-00002, 36" Cable from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [Lead Free 3-Lug TRB Bulkhead Insulated Jack with Blunt Cut for 78 Ohm M17/176-00002, 36" Cable FM3MSA00451-36](#)

URL: <https://www.fairviewmicrowave.com/1553-trb-3-lug-jack-bulkhead-to-blunt-cut-genderless-cable-78-ohm-m17-176-00002-coax-in-36-inch-fm3msa00451-36-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**

- 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: FM3MSA00451-XX (-XX = OAL IN INCHES)

**REGULATORY COMPLIANCE:**  
EU RoHS DIRECTIVE (MOST RECENT RELEASED VERSION)

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UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES. DIMENSIONS IN [ ] ARE IN MILLIMETERS.		<b>Fairview Microwave</b> an INFINIT <sup>®</sup> brand Website: <a href="http://www.FairviewMicrowave.com">www.FairviewMicrowave.com</a> Phone: 1.800.715.4396   1.972.649.6678		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SCALE: NONE SHEET: 1 OF 1
TOLERANCES:	FRACTIONS:	DESCRIPTION: LEAD FREE 3-LUG TRB BULKHEAD INSULATED JACK WITH BLUNT CUT FOR 78 OHM M17/176-00002 CABLE		
-X = ±.2 [5]	± 1/32	SIZE:	A	
-XX = ±.005 [0.13]	ANGLES ± 1°	CAGE CODE:	3FKR5	
CABLE LENGTH TOLERANCES:	±.012 [305] = +.1 [25] / -0	DRAWN BY:	DMAY	
>.12 [305] ≤.50 [12.7] = +.2 [5] / -0	±.005 [0.13]	ITEM NO.:	FM3MSA00451	
>.50 [12.7] ≤.75 [19.0] = +.4 [10.2] / -0	±.002 [0.05]	REV:	A	
>.75 [19.0] ≤.300 [76.2] = +.6 [15.2] / -0	±.001 [0.025]	ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE. UNDIMENSIONED/CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.		
>.300 [76.2] = +.5% / -0				