

## Lead Free 1553 TRB Plug Bulkhead Non-Isolated to Blunt Cut Genderless Cable 78 Ohm M17/176-00002 Coax in 12 Inch with Bend Relief

The 78 ohm TRB plug bulkhead nonisolated to Blunt cut genderless 12 inch cable using 78 ohm M17/176-00002 twinax, part number FM3MSA00455-12, from Fairview Microwave is in-stock and ships same day. This Fairview TRB to Blunt Cut cable assembly has a plug 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 FM3MSA00455-12 TRB plug to Blunt cut genderless cable assembly operates to 10 MHz. Our RF cable assembly with TRB bulkhead nonisolated 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	MHz
Capacitance		24 [78.74]		pF/ft [pF/m]
Operating Voltage (AC)			750,000	Vrms

#### 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*	12 in [304.8 mm]
Weight	0.077 lbs [34.93 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]
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### Configuration:

- TRB Plug Bulkhead NonIsolated
- Blunt Cut Genderless
- M17/176-00002

### Features:

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

### Applications:

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

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**Connectors**

Description	Connector 1	Connector 2
Type	TRB Plug Bayonet	Blunt Cut Genderless Other
Option	Bend Relief Spring	
Mount Method	Bulkhead NonIsolated	
Impedance	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: **FM3MSA00455 - xx uu**

cm = Centimeters  
<blank> = Inches  
Length

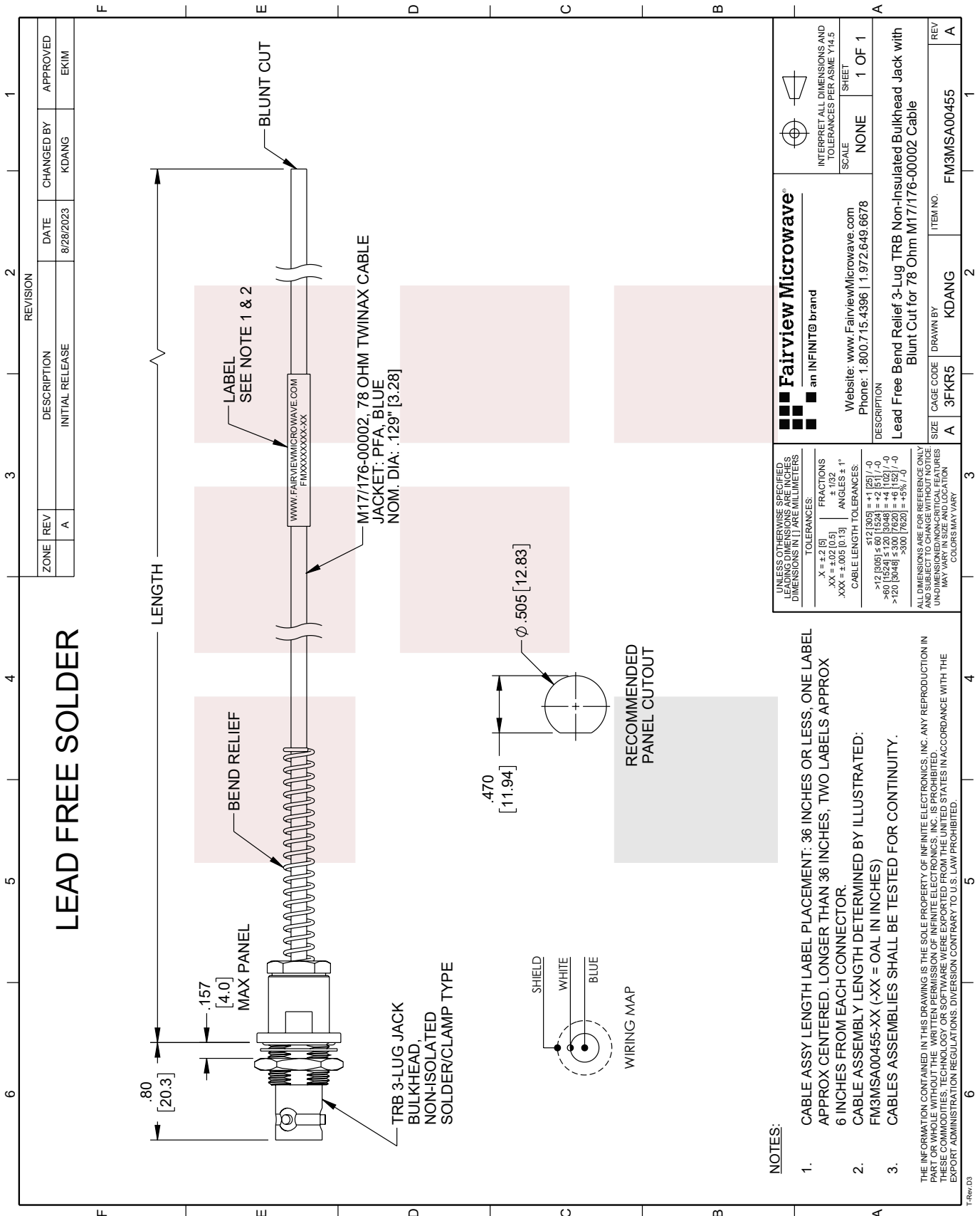
Example: FM3MSA00455-12 = 12 inches long cable  
FM3MSA00455-100cm = 100 cm long cable

Lead Free 1553 TRB Plug Bulkhead Non-Isolated to Blunt Cut Genderless Cable 78 Ohm M17/176-00002 Coax in 12 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: [Lead Free 1553 TRB Plug Bulkhead Non-Isolated to Blunt Cut Genderless Cable 78 Ohm M17/176-00002 Coax in 12 Inch with Bend Relief FM3MSA00455-12](#)

URL: <https://www.fairviewmicrowave.com/lead-free-1553-trb-plug-bulkhead-nonisolated-to-blunt-cut-genderless-cable-78-ohm-m17-176-00002-coax-in-12-inch-with-bend-relief-fm3msa00455-12-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.



ZONE		REVISION		APPROVED	
REV	DESCRIPTION	DATE	CHANGED BY	DATE	APPROVED
A	INITIAL RELEASE	8/28/2023	KDANG		EKIM

<p><b>Fairview Microwave</b> an INFINIT<sup>®</sup> brand</p> <p>Website: <a href="http://www.FairviewMicrowave.com">www.FairviewMicrowave.com</a> 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</p> <p><b>Lead Free Bend Relief 3-Lug TRB Non-Insulated Bulkhead Jack with Blunt Cut for 78 Ohm M17/176-00002 Cable</b></p>		
SIZE	CAGE CODE	ITEM NO.
A	3FKR5	KDANG
REV	ITEM NO.	
A	FM3MSA00455	

- NOTES:**
- CABLE ASSY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROX CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROX 6 INCHES FROM EACH CONNECTOR.
  - CABLE ASSEMBLY LENGTH DETERMINED BY ILLUSTRATED: FM3MSA00455-XX (-XX = OAL IN INCHES)
  - CABLES ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
- UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES, DIMENSIONS IN [ ] ARE MILLIMETERS
- |                     |           |             |
|---------------------|-----------|-------------|
| TOLERANCES:         | FRACTIONS | ANGLES ± 1° |
| .X = ±.2 [5]        | ± 1/32    |             |
| .XX = ±.02 [0.5]    | ± 1/64    |             |
| .XXX = ±.005 [0.13] |           |             |
- CABLE LENGTH TOLERANCES:
- |              |              |     |
|--------------|--------------|-----|
| ≤ 12 [305]   | ±.1 [25]     | /-0 |
| > 12 [305]   | ±.50 [12.7]  | /-0 |
| > 20 [508]   | ±.75 [19.0]  | /-0 |
| > 30 [762]   | ±.875 [22.2] | /-0 |
| > 40 [1016]  | ±.875 [22.2] | /-0 |
| > 50 [1270]  | ±.875 [22.2] | /-0 |
| > 60 [1524]  | ±.875 [22.2] | /-0 |
| > 70 [1778]  | ±.875 [22.2] | /-0 |
| > 80 [2032]  | ±.875 [22.2] | /-0 |
| > 90 [2286]  | ±.875 [22.2] | /-0 |
| > 100 [2540] | ±.875 [22.2] | /-0 |
| > 120 [3048] | ±.875 [22.2] | /-0 |
| > 150 [3810] | ±.875 [22.2] | /-0 |
| > 200 [5080] | ±.875 [22.2] | /-0 |
| > 300 [7620] | ±.875 [22.2] | /-0 |
- ALL DIMENSIONS ARE FOR REFERENCING ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE. UNDIMENSIONED/CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.
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