

## TRB 3-Lug Jack Non-Insulated Bulkhead to TRB 3-Lug Jack Non-Insulated Bulkhead 1553 Cable 48" Using 124 Ohm TWC-124-2 Twinax

The 78 ohm TRB 3-Lug jack bulkhead to 78 ohm TRB 3-Lug jack bulkhead 48 cable using 124 ohm TWC-124-2 twinax, part number FM3MSA00662-48, 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 124 ohm flexible TWC-124-2 twinax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FM3MSA00662-48 TRB 3-Lug jack to TRB 3-Lug jack cable assembly operates to 500 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		500	MHz
Capacitance		12.3 [40.35]		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	500	MHz
Insertion Loss (Typ.)	0.27	0.35	0.41	0.49	0.66	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	0.257 lbs [116.57 g]

#### Cable

Cable Type	TWC-124-2
Impedance	124 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	1.25 in [31.75 mm]
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### Configuration:

- TRB 3-Lug Jack Bulkhead
- TRB 3-Lug Jack Bulkhead
- TWC-124-2

### Features:

- Max Frequency 500 MHz
- PVC Jacket
- 124 ohms
- Twinaxial
- MIL-STD-1553B
- -40°C to +80°C
- Lead Free Solder
- Standard and Custom Lengths Available

### Applications:

- General Purpose
- Laboratory Use
- MIL-STD-1553B Applications
- Data Transmission

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**Connectors**

Description	Connector 1	Connector 2
Type	TRB 3-Lug Jack Bayonet	TRB 3-Lug Jack Bayonet
Mount Method	Bulkhead	Bulkhead
Specification	MIL-STD-1553	MIL-STD-1553
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-492
Dielectric Type	Teflon	Teflon
Outer Cond Material & Plating	Phosphor Bronze, Gold	Phosphor Bronze, Gold
Outer Cond Plating Spec.	30 micro inches	34 micro inches
Body Material & Plating	Brass, Nickel	Brass, Nickel
Body Plating Spec.	ASTM-B-733	ASTM-B-737

**Environmental Specifications**

**Temperature**

Operating Range -40 to +80 deg C

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

**Plotted and Other Data**

Notes:

**How to Order**

Part Number Configuration: **FM3MSA00662 - xx uu**

Example: FM3MSA00662-12 = 12 inches long cable  
FM3MSA00662-100cm = 100 cm long cable

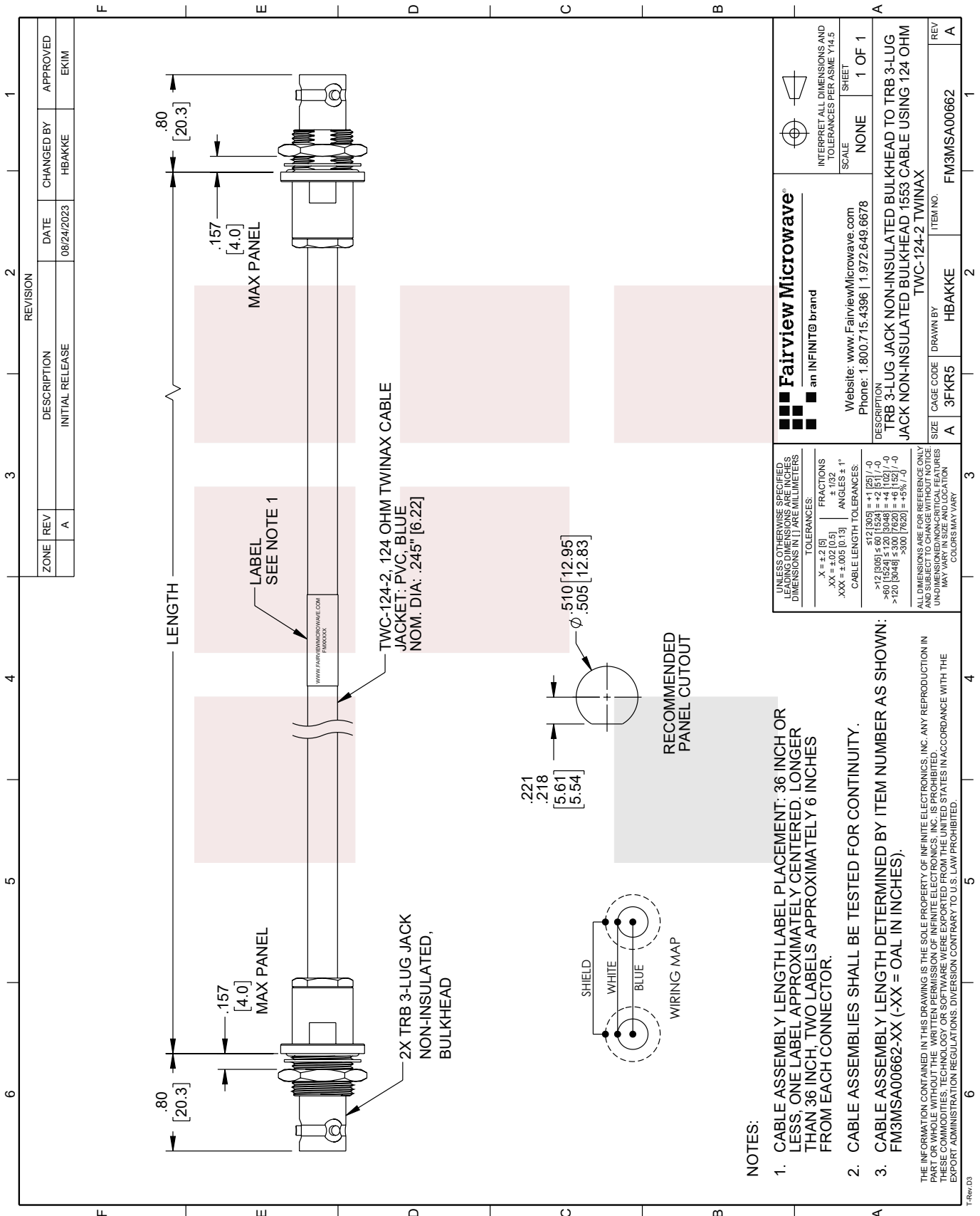


TRB 3-Lug Jack Non-Insulated Bulkhead to TRB 3-Lug Jack Non-Insulated Bulkhead 1553 Cable 48" Using 124 Ohm TWC-124-2 Twinax from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [TRB 3-Lug Jack Non-Insulated Bulkhead to TRB 3-Lug Jack Non-Insulated Bulkhead 1553 Cable 48" Using 124 Ohm TWC-124-2 Twinax FM3MSA00662-48](#)

URL: <https://www.fairviewmicrowave.com/1553-trb-3-lug-jack-bulkhead-to-trb-3-lug-jack-bulkhead-cable-124-ohm-twc-124-2-coax-in-48-fm3msa00662-48-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.



ZONE		REVISION		DATE		CHANGED BY		APPROVED	
	REV		DESCRIPTION		INITIAL RELEASE				
	A				08/24/2023		HBAKKE		EKIM

<p><b>Fairview Microwave</b> an INFINIT<sup>®</sup> brand</p>		<p>INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5</p>	
Website: <a href="http://www.FairviewMicrowave.com">www.FairviewMicrowave.com</a> Phone: 1.800.715.4396   1.972.649.6678		SCALE	SHEET
		NONE	1 OF 1
DESCRIPTION TRB 3-LUG JACK NON-INSULATED BULKHEAD TO TRB 3-LUG JACK NON-INSULATED BULKHEAD 1553 CABLE USING 124 OHM TWC-124-2 TWINAX			
SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	3FKR5	HBAKKE	FM3MSA00662
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] ≤ 50 [1274] = ±.2 [51] / -0  
 >50 [1274] ≤ 100 [2548] = ±.3 [76.2] / -0  
 >100 [2548] ≤ 300 [7620] = ±.6 [152] / -0  
 >300 [7620] = +5% / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE. UNDIMENSIONED CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.

NOTES:  
 1. CABLE ASSEMBLY LENGTH LABEL PLACEMENT: 36 INCH OR LESS, ONE LABEL APPROXIMATELY CENTERED. LONGER THAN 36 INCH, TWO LABELS APPROXIMATELY 6 INCHES FROM EACH CONNECTOR.  
 2. CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.  
 3. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM NUMBER AS SHOWN: FM3MSA00662-XX (-XX = OAL IN INCHES).

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