

TRB 3-Slot Plug to TRB 3-Lug Jack Insulated Bulkhead 1553 Cable 24" Using 124 Ohm TWC-124-2 Twinax

The 78 ohm TRB 3-Slot plug to 78 ohm TRB 3-Lug jack bulkhead insulated 24 cable using 124 ohm TWC-124-2 twinax, part number FM3MSA00654-24, from Fairview Microwave is in-stock and ships same day. This Fairview TRB 3-Slot to TRB 3-Lug cable assembly has a plug 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 FM3MSA00654-24 TRB 3-Slot plug to TRB 3-Lug jack cable assembly operates to 500 MHz. Our RF cable assembly with TRB 3-Lug bulkhead insulated 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.)	0.234	0.272	0.302	0.344	0.428	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* 24 in [609.6 mm]
 Weight 0.275 lbs [124.74 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]



Configuration:

- TRB 3-Slot Plug
- TRB 3-Lug Jack Bulkhead Insulated
- 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-Slot Plug Bayonet	TRB 3-Lug Jack Bayonet
Mount Method		Bulkhead Insulated
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-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
Seal Gasket Material	Rubber	

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:

FM3MSA00654 - xx uu

cm = Centimeters
<blank> = Inches
Length

Example: FM3MSA00654-12 = 12 inches long cable
FM3MSA00654-100cm = 100 cm long cable

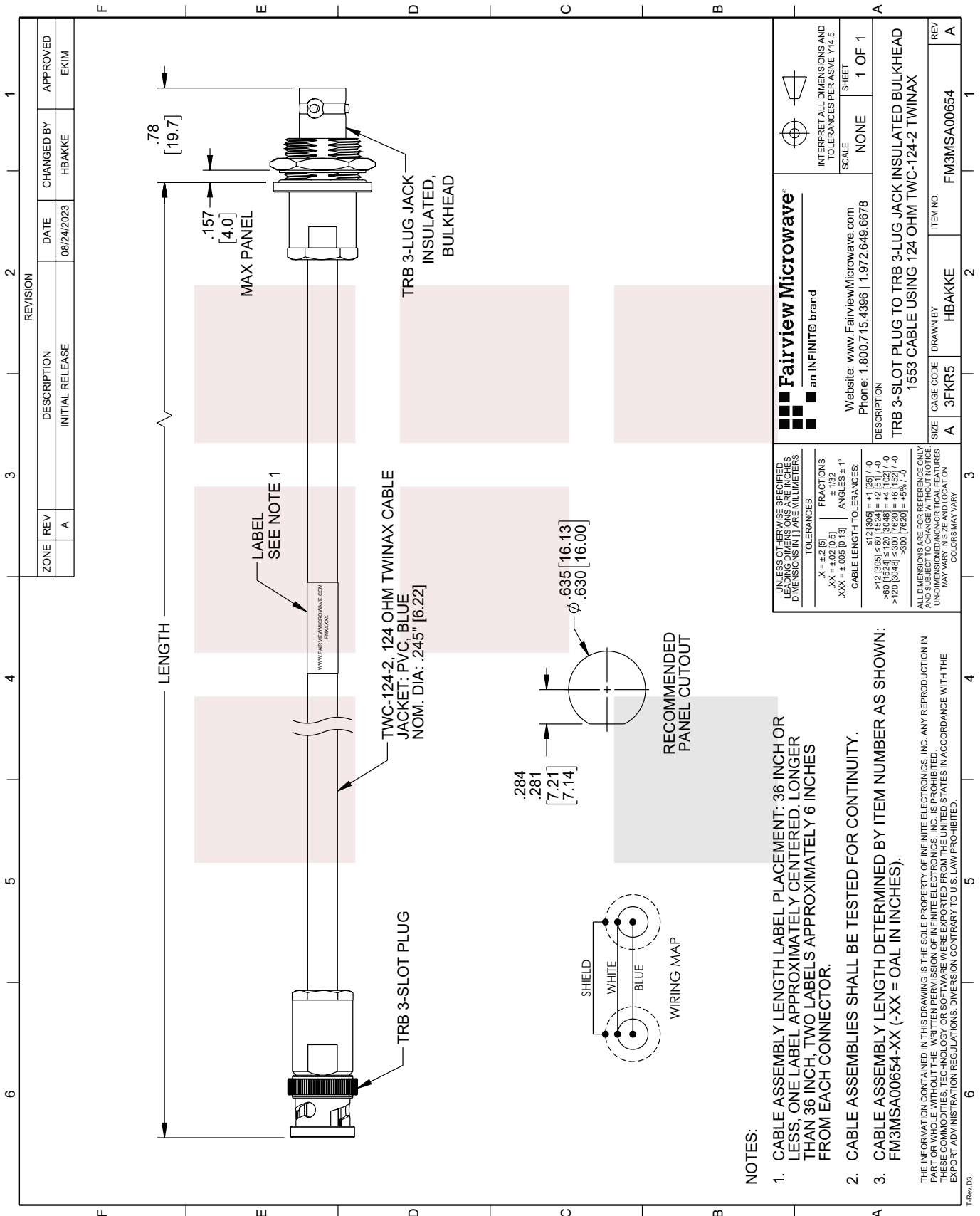
TRB 3-Slot Plug to TRB 3-Lug Jack Insulated Bulkhead 1553 Cable 24" Using 124 Ohm TWC-124-2 Twinax from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [TRB 3-Slot Plug to TRB 3-Lug Jack Insulated Bulkhead 1553 Cable 24" Using 124 Ohm TWC-124-2 Twinax FM3MSA00654-24](#)

URL: <https://www.fairviewmicrowave.com/1553-trb-3-slot-plug-to-trb-3-lug-jack-bulkhead-insulated-cable-124-ohm-twc-124-2-coax-in-24-fm3msa00654-24-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		DESCRIPTION		DATE		CHANGED BY		APPROVED	
	REV			INITIAL RELEASE		08/24/2023		HBAKKE		EKIM	
	A										

<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
DESCRIPTION		SHEET	1 OF 1
TRB 3-SLOT PLUG TO TRB 3-LUG JACK INSULATED BULKHEAD 1553 CABLE USING 124 OHM TWC-124-2 TWINAX			
SIZE	A	CAGE CODE	3FKR5
DRAWN BY	HBAKKE	ITEM NO.	FM3MSA00654
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 [5.1] / -0
 >60 [1524] ≤ 300 [7620] = ±.4 [10.2] / -0
 >300 [7620] = ±.6 [15.2] / -0
 >120 [3048] ≤ 300 [7620] = ±.6 [15.2] / -0
 >300 [7620] = ±.6% / -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.

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- NOTES:
- 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.
 - CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
 - CABLE ASSEMBLY LENGTH DETERMINED BY ITEM NUMBER AS SHOWN: FM3MSA00654-XX (-XX = OAL IN INCHES).

T-Rev.D3