

Lead Free LSZH 3-Lug TRB Bulkhead Insulated Jack to Jack for 78 Ohm TWCH-78-2, 36" Cable

The 78 ohm TRB 3-Lug jack bulkhead to 78 ohm TRB 3-Lug jack bulkhead 36 inch cable using 78 ohm TWCH-78-2 twinax, part number FM3MSA00589-36, 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 TWCH-78-2 twinax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FM3MSA00589-36 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		21.2 [69.55]		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.)	0.266	0.353	0.425	0.515	0.68	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*	36 in [914.4 mm]
Weight	0.22 lbs [99.79 g]

Cable

Cable Type	TWCH-78-2
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	HF POF, 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
- TWCH-78-2

Features:

- Max Frequency 500 MHz
- HF POF Jacket
- MIL-STD-1553
- -30°C to +80°C
- 78 ohms
- ROHS Low Smoke Zero Halogen
- Non-Toxic

Applications:

- General Purpose
- Laboratory Use
- Military Contractors
- MIL-STD-1553
- Data
- Safer Environments
- Ventilation critical areas
- Hospitals

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Connectors

Description	Connector 1	Connector 2
Type	TRB 3-Lug Jack Bayonet	TRB 3-Lug Jack Bayonet
Option	Insulated Bulk Head	Insulated Bulk Head
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 -30 to +80 deg C

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

Plotted and Other Data

Notes:

How to Order

Part Number Configuration: **FM3MSA00589 - xx uu**

cm = Centimeters
 <blank> = Inches
 Length

Example: FM3MSA00589-12 = 12 inches long cable
 FM3MSA00589-100cm = 100 cm long cable

Lead Free LSZH 3-Lug TRB Bulkhead Insulated Jack to Jack for 78 Ohm TWCH-78-2, 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 LSZH 3-Lug TRB Bulkhead Insulated Jack to Jack for 78 Ohm TWCH-78-2, 36" Cable FM3MSA00589-36](#)

URL: <https://www.fairviewmicrowave.com/1553-trb-3-lug-jack-bulkhead-to-trb-3-lug-jack-bulkhead-cable-78-ohm-twch-78-2-coax-in-36-inch-fm3msa00589-36-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.



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: FM3MSA00589-XX (-XX = OAL IN INCHES)

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REVISION					
ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
	A	INITIAL RELEASE	8/11/2023	DMAY	EKIM

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS		■ ■ ■ Fairview Microwave® ■ an INFINITT® brand					
TOLERANCES X = ± 0.2 [5] XX = ± 0.02 [0.5] XXX = ± 0.005 [0.13] CABLE LENGTH TOLERANCES ± 1"		Website: www.FairviewMicrowave.com Phone: 1.800.771.5.4396 1.972.649.6678		SCALE NONE		SHEET 1 OF 1	
ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE UNLESS OTHERWISE SPECIFIED MAY VARY IN SIZE AND LOCATION COLORS MAY VARY		DESCRIPTION LEAD FREE LSZH 3-LUG TRB BULKHEAD INSULATED JACK TO JACK FOR 78 OHM TWCH-78-2 CABLE		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5			
SIZE A		CAGE CODE 3FKR5		DRAWN BY DMAY		ITEM NO. FM3MSA000589	
						REV A	