

LSZH 1553 TRB 3-Slot Plug to TRB 3-Lug Jack Bulkhead Isolated Cable 78 Ohm TWCH-78-2 Coax

The 78 ohm TRB 3-Slot plug to 78 ohm TRB 3-Lug jack bulkhead isolated cable using 78 ohm TWCH-78-2 twinax, part number FM3MSA00579, 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 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 FM3MSA00579 TRB 3-Slot plug to TRB 3-Lug jack cable assembly operates to 500 MHz. Our RF cable assembly with TRB 3-Lug bulkhead isolated 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. The FM3MSA00579 cable assembly consists of a 78 Ohm Low Smoke Zero Halogen 3-Slot TRB Solder/Clamp Plug to 3-Lug TRB Solder/Clamp Insulated Bulk Head Jack for TWCH-78-2 cable (.242 O.D.) suitable for MIL-STD-1553 Applications. The zero halogen jacket cable reduces the amount of toxic and corrosive gases emitted during combustion. Typically used in poorly ventilated areas, zero halogen is very popular with military contractors and anywhere the protection of people and equipment from toxic and corrosive gases is critical.

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.)	0.022	0.051	0.075	0.105	0.16	dB/ft
	0.07	0.17	0.25	0.34	0.52	dB/m

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*	0 in [0 mm]
Weight	0.3 lbs [136.08 g]

Cable

Cable Type	TWCH-78-2
Impedance	78 Ohms



Configuration:

- TRB 3-Slot Plug
- TRB 3-Lug Jack Bulkhead Isolated
- TWCH-78-2

Features:

- Max Frequency 500 MHz
- HF POF Jacket
- MIL-STD-1553
- -30°C to +80°C
- 78 ohms
- Halogen Free
- Non-Toxic
- Insulated Bulkhead

Applications:

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

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
sales@fairviewmicrowave.com

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]

Connectors

Description	Connector 1	Connector 2
Type	TRB 3-Slot Plug Bayonet	TRB 3-Lug Jack Bayonet
Mount Method		Bulkhead Isolated
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:

FM3MSA00579 - xx uu

cm = Centimeters
 <blank> = Inches

Length

Example: FM3MSA00579-12 = 12 inches long cable
 FM3MSA00579-100cm = 100 cm long cable

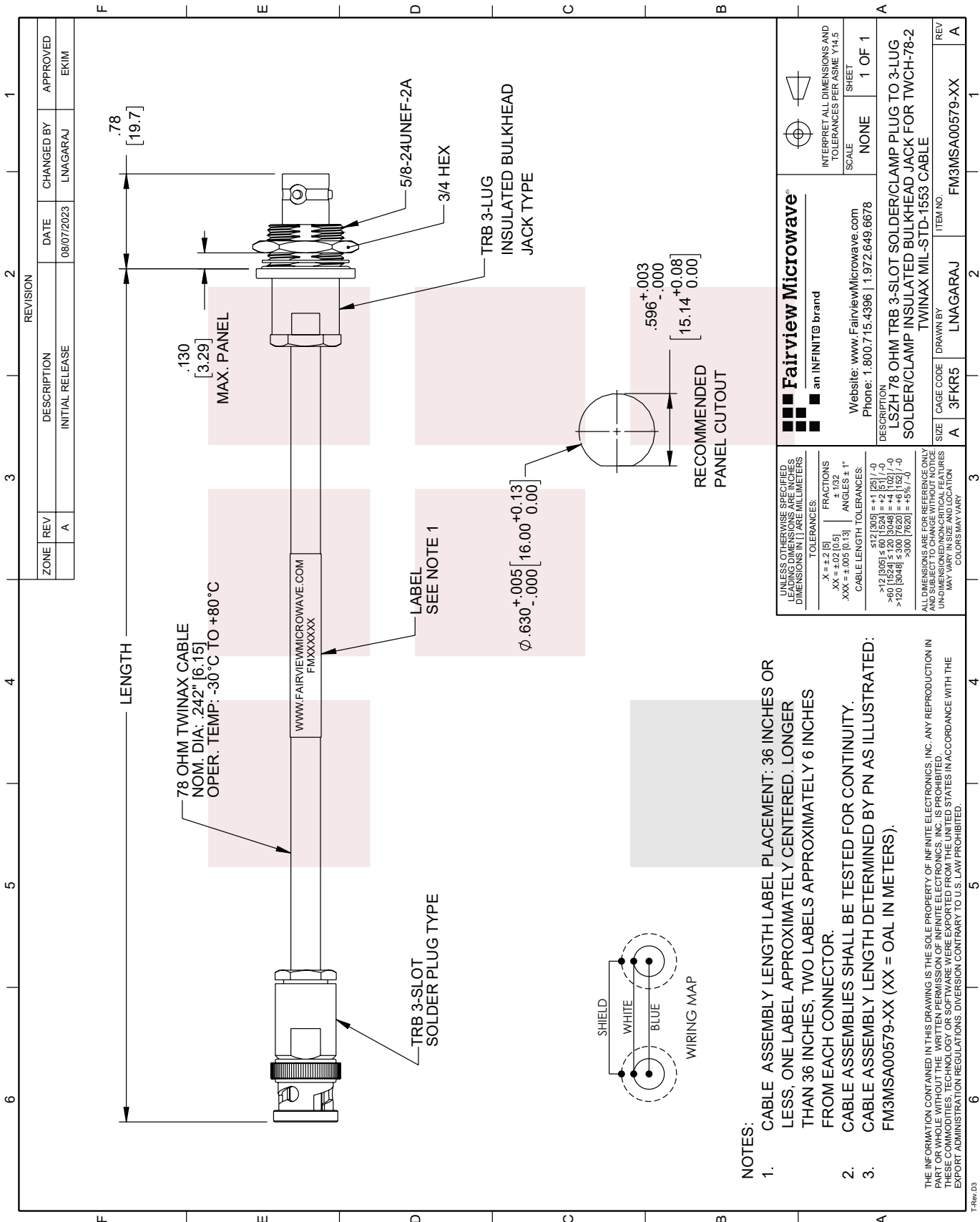
LSZH 1553 TRB 3-Slot Plug to TRB 3-Lug Jack Bulkhead Isolated Cable 78 Ohm TWCH-78-2 Coax from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [LSZH 1553 TRB 3-Slot Plug to TRB 3-Lug Jack Bulkhead Isolated Cable 78 Ohm TWCH-78-2 Coax FM3MSA00579](https://www.fairviewmicrowave.com/lszh-1553-trb-3-slot-plug-to-trb-3-lug-jack-bulkhead-isolated-cable-78-ohm-twch-78-2-coax-fm3msa00579)

URL: <https://www.fairviewmicrowave.com/lszh-1553-trb-3-slot-plug-to-trb-3-lug-jack-bulkhead-isolated-cable-78-ohm-twch-78-2-coax-fm3msa00579-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: FM3MSA00579-XX (XX = OAL IN METERS).

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF INFINITE ELECTRONICS, INC. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF INFINITE ELECTRONICS, INC. IS PROHIBITED. THIS DRAWING IS THE PROPERTY OF INFINITE ELECTRONICS, INC. AND IS NOT TO BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF INFINITE ELECTRONICS, INC. EXPORT ADMINISTRATION REGULATIONS DIVERSION CONTRARY TO U.S. LAW PROHIBITED.

<p>Fairview Microwave an INFINIT[®] brand</p> <p>Website: www.FairviewMicrowave.com 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: LSZH 78 OHM TRB 3-SLOT SOLDER/CLAMP PLUG TO 3-LUG SOLDER/CLAMP INSULATED BULKHEAD JACK FOR TWCH-78-2</p>	
<p>SIZE: A</p> <p>CAGE CODE: 3FKR5</p> <p>DRAWN BY: LNAGARAJ</p> <p>ITEM NO.: FM3MSA00579-XX</p>	<p>REV: A</p>

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN PAREMILLIMETERS

TOLERANCES:

X = ±.2 [5] FRACTIONS
 .XX = ±.02 [0.5] ± .152 ANGLES ± 1°
 .XXX = ±.005 [0.13]

CABLE LENGTH TOLERANCES:

<12 [305] ± .00 [0.00] ± .15 [3.81] / -0
 >12 [305] ± .00 [0.00] ± .15 [3.81] / -0
 >60 [1524] ± .00 [0.00] ± .15 [3.81] / -0
 >120 [3048] ± .00 [0.00] ± .15 [3.81] / -0
 >300 [7620] ± .00 [0.00] ± .15 [3.81] / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY UNDIMENSIONED/CRITICAL FEATURES MAY VARY FROM DRAWING LOCATION COLORS MAY VARY