

## Halogen Free 1553 TRB 3-Slot Plug to TRB 3-Lug Jack Cable 78 Ohm TWCH-78-2 Coax in 60 Inch

The 78 ohm TRB 3-Slot plug to 78 ohm TRB 3-Lug jack 60 inch cable using 78 ohm TWCH-78-2 twinax, part number FM3MSA00226-60, 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 FM3MSA00226-60 TRB 3-Slot plug to TRB 3-Lug jack cable assembly operates to 500 MHz. The FM3MSA00226 cable assembly consists of a 78 Ohm Halogen Free 3-Slot TRB Solder/Clamp Plug to 3-Lug TRB Solder/Clamp 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.)	0.31	0.455	0.575	0.725	1	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*	60 in [152.4 cm]
Weight	0.44 lbs [199.58 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



### Configuration:

- TRB 3-Slot Plug
- TRB 3-Lug Jack
- 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

### Applications:

- General Purpose
- Laboratory Use
- Military Contractors
- MIL-STD-1553
- Data

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](http://www.fairviewmicrowave.com)  
[sales@fairviewmicrowave.com](mailto:sales@fairviewmicrowave.com)

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
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: **FM3MSA00226 - xx uu**

cm = Centimeters  
<blank> = Inches  
Length

Example: FM3MSA00226-12 = 12 inches long cable  
FM3MSA00226-100cm = 100 cm long cable

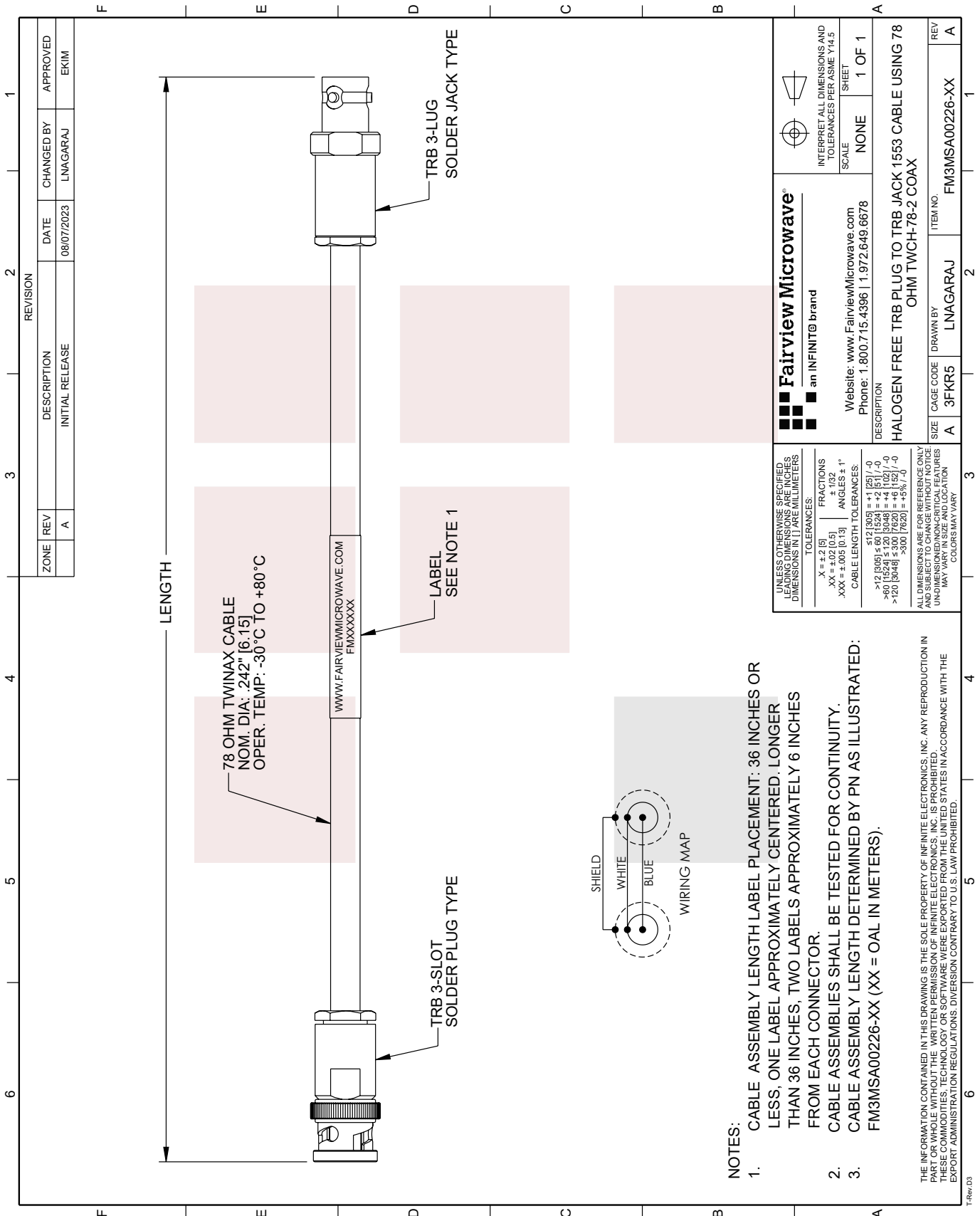
Halogen Free 1553 TRB 3-Slot Plug to TRB 3-Lug Jack Cable 78 Ohm TWCH-78-2 Coax in 60 Inch from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [Halogen Free 1553 TRB 3-Slot Plug to TRB 3-Lug Jack Cable 78 Ohm TWCH-78-2 Coax in 60 Inch FM3MSA00226-60](https://www.fairviewmicrowave.com/halogen-free-1553-trb-3-slot-plug-to-trb-3-lug-jack-cable-78-ohm-twch-78-2-coax-in-60-inch-fm3msa00226-60)

URL: <https://www.fairviewmicrowave.com/halogen-free-1553-trb-3-slot-plug-to-trb-3-lug-jack-cable-78-ohm-twch-78-2-coax-in-60-inch-fm3msa00226-60-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: FM3MSA00226-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. THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.

ZONE		REVISION		DATE		CHANGED BY		APPROVED	
A		INITIAL RELEASE		08/07/2023	LNAGARAJ			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: HALOGEN FREE TRB PLUG TO TRB JACK 1553 CABLE USING 78 OHM TWCH-78-2 COAX</p>		
SIZE: A	CAGE CODE: 3FKR5	ITEM NO.: FM3MSA00226-XX
DRAWN BY: LNAGARAJ	REV: A	

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE IN INCHES DIMENSIONS IN [ ] ARE MILLIMETERS	TOLERANCES:	FRACTIONS:
.X = ±.2 [5]	.XX = ±.02 [0.5]	± 1/32
.XXX = ±.005 [0.13]	ANGLES ± 1°	
CABLE LENGTH TOLERANCES:		
<math>≤ 12 [305]</math>	<math>≤ 60 [1524]</math>	<math>≤ 125 [-0</math>
<math>≤ 24 [609]</math>	<math>≤ 300 [7620]</math>	<math>≤ 611 [-0</math>
<math>≤ 36 [914]</math>	<math>≤ 450 [11430]</math>	<math>≤ 914 [-0</math>
<math>≤ 72 [1829]</math>	<math>≤ 900 [22860]</math>	<math>≤ 1829 [-0</math>
<math>≤ 120 [3048]</math>	<math>≤ 1800 [45720]</math>	<math>≤ 3657 [-0</math>
<math>≤ 240 [6096]</math>	<math>≤ 3600 [91440]</math>	<math>≤ 7314 [-0</math>

T-Rev D3