

1553 TRB 3-Slot Plug to TRB 3-Lug Jack Cable
78 Ohm M17/176-00002 Coax in 48 Inch

The 78 ohm TRB 3-Slot plug to 78 ohm TRB 3-Lug jack 48 inch cable using 78 ohm M17/176-00002 twinax, part number FM3MP2059-48, 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 M17/176-00002 twinax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FM3MP2059-48 TRB 3-Slot plug to TRB 3-Lug jack cable assembly operates to 10 MHz. The FM3MP2059 cable assembly consists of a 3-slot solder/clamp TRB plug to 3-lug solder/clamp TRB jack on M17/176-00002 Twinax cable, that is in the High Temperature-rated bus cabling category for MIL-STD-1553 applications. This thicker cable (0.129" O.D.) provides a robust cabling solution with less attenuation per foot. These assemblies are built to withstand severe shocks and vibrations.

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		10	MHz
Capacitance		24 [78.74]		pF/ft [pF/m]
Operating Voltage (AC)			750,000	Vrms

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	3	5	7	10	MHz
Insertion Loss (Typ.)	0.256	0.284	0.312	0.34	0.38	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 0.333 lbs [151.05 g]

Cable

Cable Type M17/176-00002
 Impedance 78 Ohms
 Inner Conductor Type Stranded
 Inner Conductor Material and Plating Copper, Silver
 Dielectric Type PTFE
 Shield Layer 1 Silver Plated Copper
 Jacket Material PFA, Blue


Configuration:

- TRB 3-Slot Plug
- TRB 3-Lug Jack
- M17/176-00002

Features:

- Max Frequency 10 MHz
- PFA Jacket
- MIL-STD-1553
- -55°C to +200°C
- 78 ohms

Applications:

- General Purpose
- Laboratory Use
- Vehicle High Temperature
- Data
- MIL-STD-1553

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One Time Minimum Bend Radius 1.5 in [38.1 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 -55 to +200 deg C

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

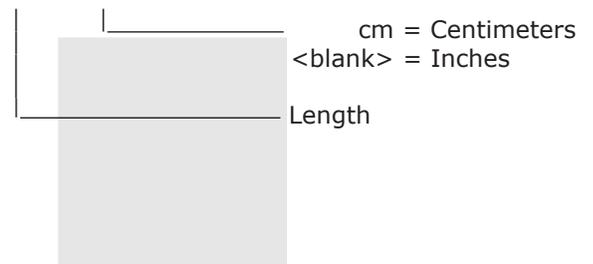
Plotted and Other Data

Notes:

How to Order

Part Number Configuration: **FM3MP2059 - xx uu**

Example: FM3MP2059-12 = 12 inches long cable
FM3MP2059-100cm = 100 cm long cable

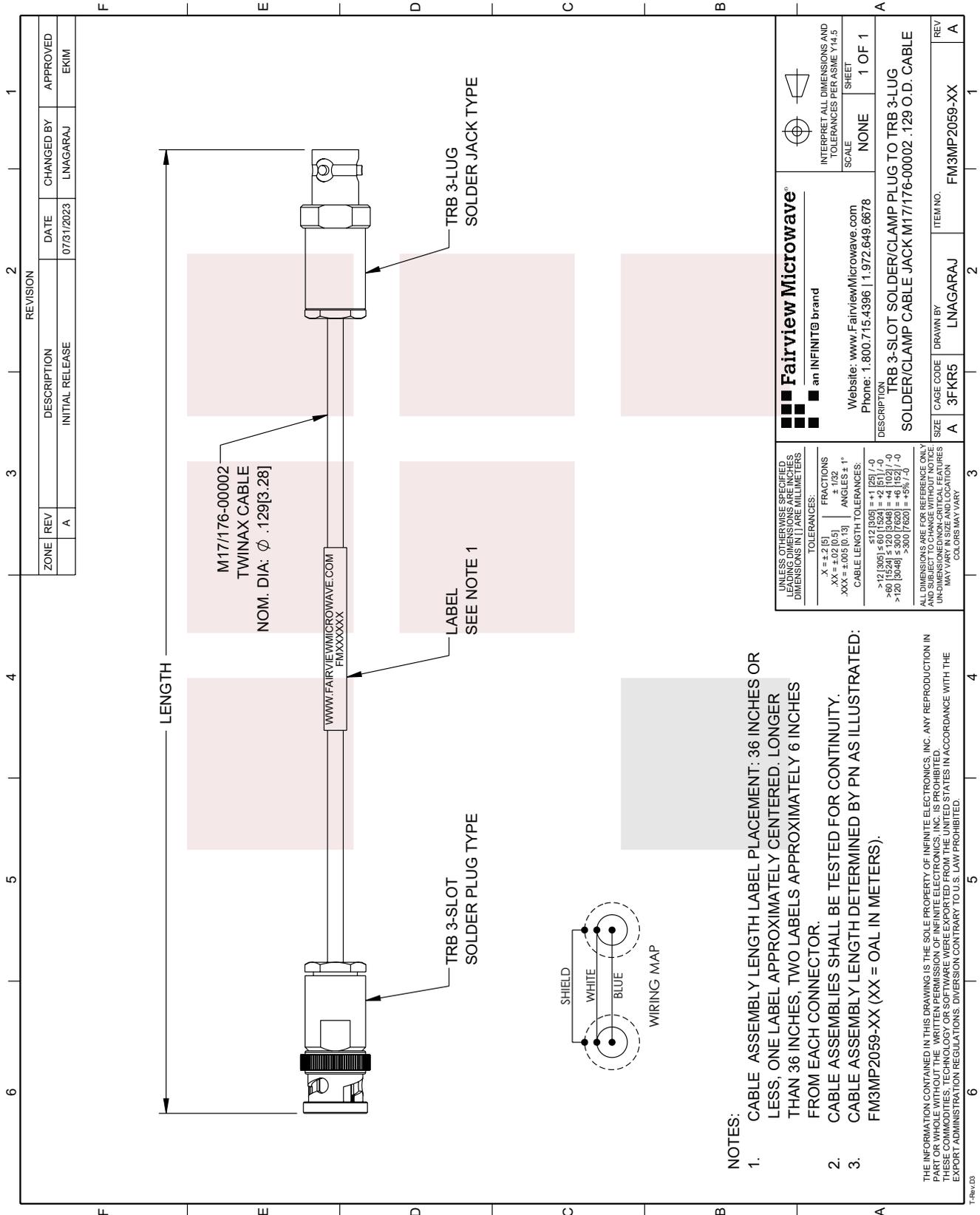


1553 TRB 3-Slot Plug to TRB 3-Lug Jack Cable 78 Ohm M17/176-00002 Coax in 48 Inch from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [1553 TRB 3-Slot Plug to TRB 3-Lug Jack Cable 78 Ohm M17/176-00002 Coax in 48 Inch FM3MP2059-48](#)

URL: <https://www.fairviewmicrowave.com/1553-trb-3-slot-plug-to-trb-3-lug-jack-cable-78-ohm-m17-176-00002-coax-in-48-inch-fm3mp2059-48-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.



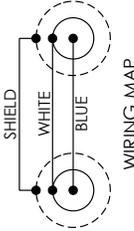
REVISION		DATE	CHANGED BY	APPROVED
ZONE	REV			
	A	07/31/2023	LNAGARAJ	EKIM
DESCRIPTION				
INITIAL RELEASE				

M17176-00002
TWINAX CABLE
NOM. DIA: \varnothing .129[3.28]

WWW.FAIRVIEWMICROWAVE.COM
FMXXXXXX

TRB 3-SLOT
SOLDER PLUG TYPE

TRB 3-LUG
SOLDER JACK TYPE



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: FM3MP2059-XX (XX = OAL IN METERS).

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<p>Fairview Microwave an INFINIT[®] brand</p>	<p>INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5</p>
	<p>SCALE: NONE</p> <p>SHEET: 1 OF 1</p>
<p>Website: www.FairviewMicrowave.com</p> <p>Phone: 1.800.715.4396 1.972.649.6678</p>	<p>DESCRIPTION: TRB 3-SLOT SOLDER/CLAMP PLUG TO TRB 3-LUG SOLDER/CLAMP CABLE JACK M17176-00002 .129 O.D. CABLE</p>
<p>SIZE: A</p> <p>CAGE CODE: 3FKR5</p> <p>DRAWN BY: LNAGARAJ</p> <p>ITEM NO.: FM3MP2059-XX</p>	<p>REV: A</p>

UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES:
.X = ±.2 [5]
.XX = ±.02 [0.5]
.XXX = ±.005 [0.13]
ANGLES ± 1°
±.132
CABLE LENGTH TOLERANCES:
>12 [305] ≤ 60 [1524] = ±.05 [1.27]
>60 [1524] ≤ 120 [3048] = ±.001 [7620] = ±.001 [25.4]
>120 [3048] ≤ 300 [7620] = ±.001 [25.4]
>300 [7620] = ±.001 [25.4]

ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE. UN-DIMENSIONED CRITICAL FEATURES MAY VARY. COLORS MAY VARY.