

## Lead Free 1553 TRS Subminiature Plug to TRB 3-Slot Plug Cable 78 Ohm FMBC-30-02003 Coax in 12 Inch

The 78 ohm TRS Subminiature plug to 78 ohm TRB 3-Slot plug 12 inch cable using 78 ohm FMBC-30-02003 twinax, part number FM3MSA00490-12, from Fairview Microwave is in-stock and ships same day. This Fairview TRS Subminiature to TRB 3-Slot cable assembly has a plug to plug gender configuration with 78 ohm flexible FMBC-30-02003 twinax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FM3MSA00490-12 TRS Subminiature plug to TRB 3-Slot plug cable assembly operates to 500 MHz.

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		20.3 [66.6]		pF/ft [pF/m]
Operating Voltage (AC)			300	Vrms

### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	10	50	100	200	500	MHz
Insertion Loss (Typ.)	0.253	0.319	0.368	0.437	0.575	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

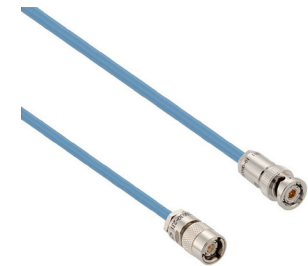
#### Cable Assembly

Length*	12 in [304.8 mm]
Weight	0.101 lbs [45.81 g]

#### Cable

Cable Type	FMBC-30-02003
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	PVC, Blue

One Time Minimum Bend Radius	1.5 in [38.1 mm]
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### Configuration:

- TRS Subminiature Plug
- TRB 3-Slot Plug
- FMBC-30-02003

### Features:

- Max Frequency 500 MHz
- PVC Jacket
- MIL-STD-1553
- -20°C to +75°C
- 78 ohms

### Applications:

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

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**Connectors**

Description	Connector 1	Connector 2
Type	TRS Subminiature Plug Bayonet	TRB 3-Slot Plug 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 -20 to +75 deg C

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

**Plotted and Other Data**

Notes:

**How to Order**

Part Number Configuration: **FM3MSA00490 - xx uu**

cm = Centimeters  
<blank> = Inches

Length

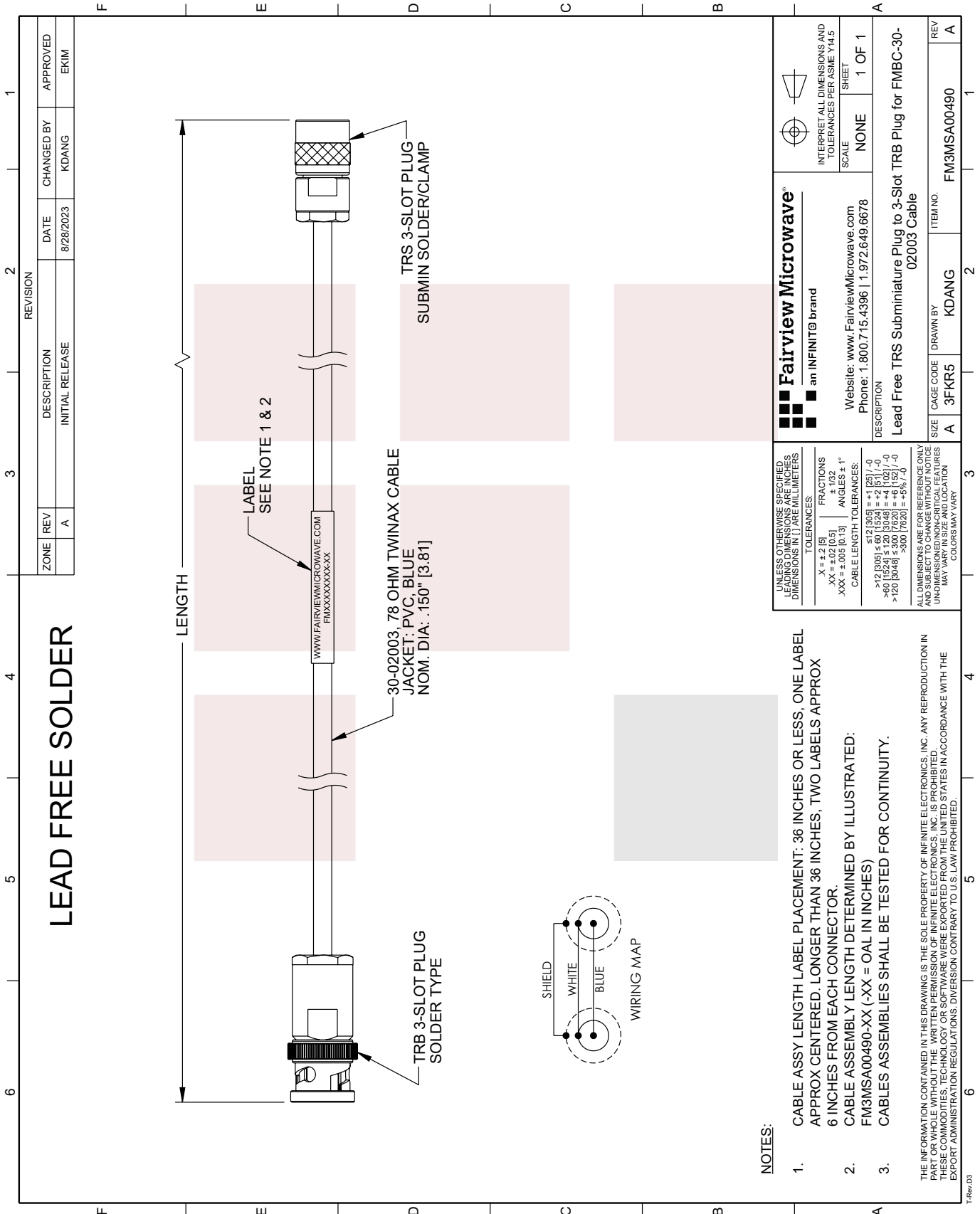
Example: FM3MSA00490-12 = 12 inches long cable  
FM3MSA00490-100cm = 100 cm long cable

Lead Free 1553 TRS Subminiature Plug to TRB 3-Slot Plug Cable 78 Ohm FMBC-30-02003 Coax in 12 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: [Lead Free 1553 TRS Subminiature Plug to TRB 3-Slot Plug Cable 78 Ohm FMBC-30-02003 Coax in 12 Inch FM3MSA00490-12](#)

URL: <https://www.fairviewmicrowave.com/lead-free-1553-trs-subminiature-plug-to-trb-3-slot-plug-cable-78-ohm-fm3msa00490-12-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.



**LEAD FREE SOLDER**

ZONE REV		DESCRIPTION		DATE		CHANGED BY		APPROVED	
A		INITIAL RELEASE		8/28/2023	KDANG			EKIM	

**NOTES:**

- CABLE ASSY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROX CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROX 6 INCHES FROM EACH CONNECTOR.
- CABLE ASSEMBLY LENGTH DETERMINED BY ILLUSTRATED: FM3MSA00490-XX (-XX = OAL IN INCHES)
- CABLES ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.

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UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES. DIMENSIONS IN [ ] ARE MILLIMETERS.	
TOLERANCES:	FRACTIONS
.X = ±.2 [5]	±.132
.XX = ±.02 [0.5]	±.132
.XXX = ±.005 [0.13]	ANGLES ± 1°
CABLE LENGTH TOLERANCES:	
<12 [305]	±.125 [-0]
<12 [305] ≤ 60 [1524]	±.25 [-0]
<60 [1524] ≤ 300 [7620]	±.5 [-0]
>300 [7620]	±.75 [-0]
>120 [3048]	±.300 [-0]
>300 [7620]	±.45% [-0]

<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 SHEET</p> <p>SCALE: NONE</p> <p>SHEET: 1 OF 1</p>
<p>DESCRIPTION</p> <p>Lead Free TRS Subminiature Plug to 3-Slot TRB Plug for FMBC-30-02003 Cable</p>		
SIZE	CAGE CODE	ITEM NO.
A	3FKR5	FM3MSA00490
DRAWN BY	REV	
KDANG	A	