

78 Ohm 3-Slot TRS Submini Solder/Clamp Plug to 3-Slot TRB Solder/Clamp Plug for FMBC-30-02003 Cable

The 78 ohm TRB 3-Slot plug to 78 ohm TRS Subminiature plug cable using 78 ohm FMBC-30-02003 twinax, part number FM3CA2005, from Fairview Microwave is in-stock and ships same day. This Fairview TRB 3-Slot to TRS Subminiature 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 FM3CA2005 TRB 3-Slot plug to TRS Subminiature plug cable assembly operates to 500 MHz. The FM3CA2005 cable assembly consists of a 3-slot solder/clamp TRS Subminiature plug to a 3-slot solder/clamp TRB plug on FM-30-02003, that is a standard lab-rated PVC cable for MIL-STD-1553 applications, with an O.D. 0.150"

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.)	0.053	0.119	0.168	0.237	0.375	dB/ft
	0.17	0.39	0.55	0.78	1.23	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 0.13 lbs [58.97 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



Configuration:

- TRB 3-Slot Plug
- TRS Subminiature 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

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

One Time Minimum Bend Radius 1.5 in [38.1 mm]

Connectors

Description	Connector 1	Connector 2
Type	TRB 3-Slot Plug Bayonet	TRS Subminiature 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)

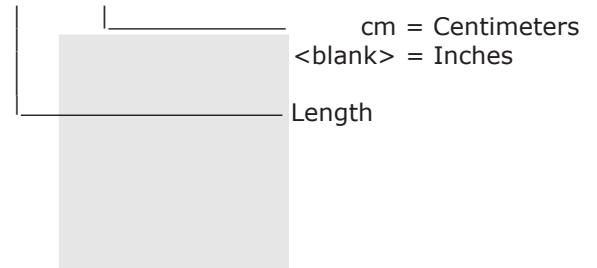
Plotted and Other Data

Notes:

How to Order

Part Number Configuration: **FM3CA2005 - xx uu**

Example: FM3CA2005-12 = 12 inches long cable
FM3CA2005-100cm = 100 cm long cable

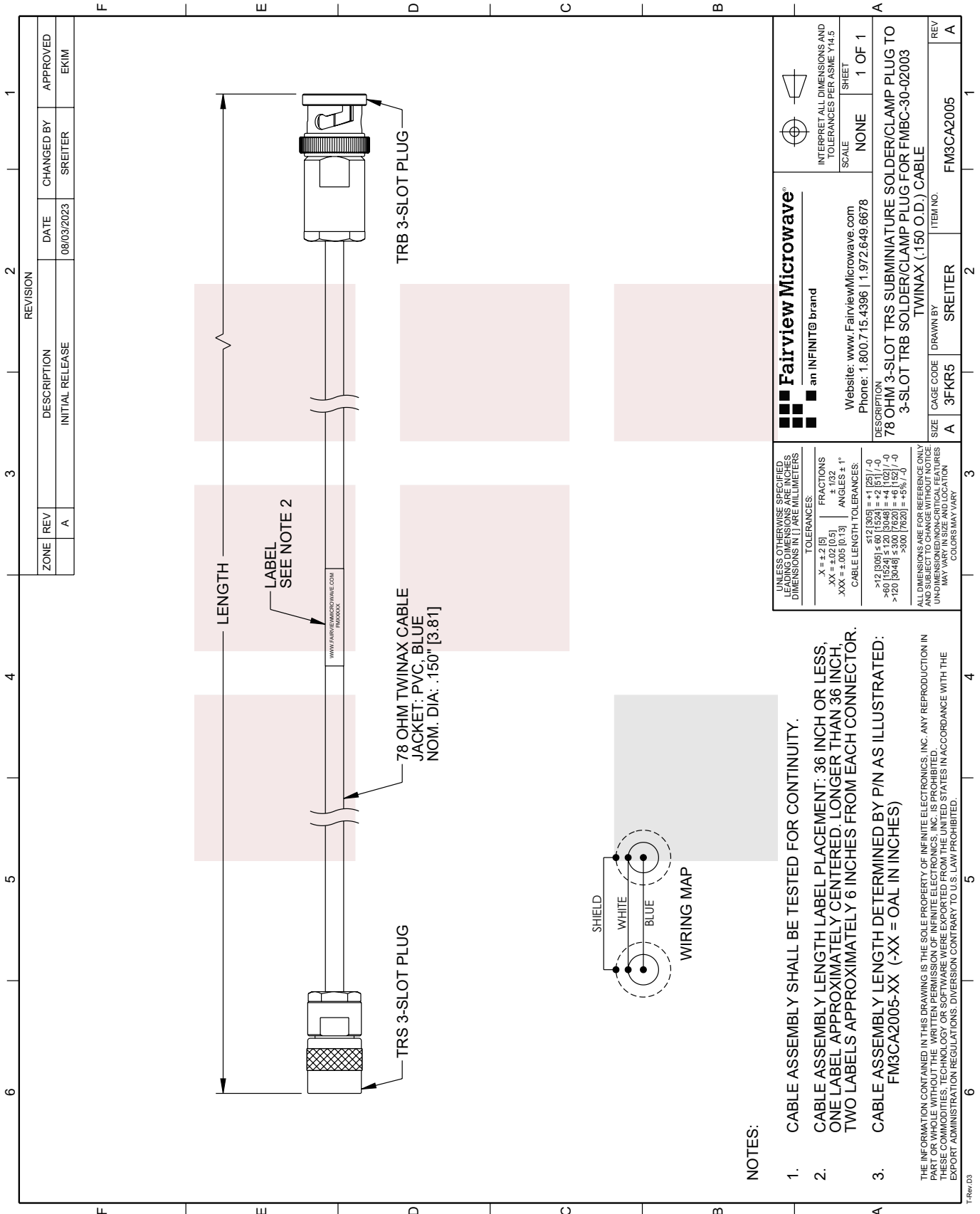


78 Ohm 3-Slot TRS Submini Solder/Clamp Plug to 3-Slot TRB Solder/Clamp Plug for FMBC-30-02003 Cable from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [78 Ohm 3-Slot TRS Subminiature Solder/Clamp Plug to 3-Slot TRB Solder/Clamp Plug for FMBC-30-02003 Twinax \(.150 O.D.\) Cable FM3CA2005](#)

URL: <https://www.fairviewmicrowave.com/1553-trb-plug-to-trs-subminiature-plug-cable-78-ohm-fm3ca2005-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 SHALL BE TESTED FOR CONTINUITY.
2. CABLE ASSEMBLY LENGTH LABEL PLACEMENT: 36 INCH OR LESS, ONE LABEL APPROXIMATELY CENTERED, LONGER THAN 36 INCH, TWO LABELS APPROXIMATELY 6 INCHES FROM EACH CONNECTOR.
3. CABLE ASSEMBLY LENGTH DETERMINED BY P/N AS ILLUSTRATED: FM3CA2005-XX (-XX = OAL IN INCHES)

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.

UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE INCHES, DIMENSIONS IN [] ARE MILLIMETERS	
TOLERANCES	FRACTIONS
.X = ±.2 [5]	.XX = ±.02 [0.5]
.XXX = ±.005 [0.13]	ANGLES ± 1°
CABLE LENGTH TOLERANCES:	
≤ 12 [305] ≤ 60 [1524] = ±.6 [15]	
> 60 [1524] ≤ 300 [7620] = ±.6 [15]	
> 300 [7620] ≤ 3000 [76200] = ±.6 [15]	
> 3000 [76200] = ±.6 [15]	

<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 SHEET</p> <p>SCALE: NONE</p> <p>1 OF 1</p>
<p>DESCRIPTION: 78 OHM 3-SLOT TRS SUBMINIATURE SOLDER/CLAMP PLUG TO 3-SLOT TRB SOLDER/CLAMP PLUG FOR FMBC-30-02003</p>		<p>ITEM NO. FM3CA2005</p>
SIZE: A	CAGE CODE: 3FKR5	REV: A
DRAWN BY: SREITER		REV: A

T-Rev D3