

Lead Free TRS Subminiature Plug to 3-Slot
TRB Plug for PE-30-02003 Cable

RF Cable Assemblies Technical Data Sheet

PE3MSA00490

Configuration

- Connector 1: TRS SUBMINIATURE Plug
- Connector 2: TRB Plug
- Cable Type: 30-02003
- Coax Flex Type: Flexible

Features

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

Applications

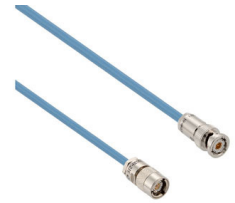
- General Purpose
- Laboratory Use
- MIL-STD-1553
- Data

Description

Pasternack's PE3MSA00490 78 ohm TRS Subminiature plug to 78 ohm TRB plug cable using 78 ohm PE-30-02003 twinax is part of our full line of RF components available for same-day shipping. Pasternack's flexible RF cable assemblies are ideal for applications where tight bends and flexure are required. This Pasternack TRS Subminiature to TRB cable assembly has a plug to plug gender configuration with 78 ohm flexible 30-02003 twinax. The PE3MSA00490 TRS Subminiature plug to TRB 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 available RF cable assembly value added services include connector orientation or clocking, heat shrink booting and custom labeling. RF testing can also be performed to document the electrical performance of your cable assembly.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Lead Free TRS Subminiature Plug to 3-Slot TRB Plug for PE-30-02003 Cable PE3MSA00490](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		500	MHz
Capacitance		20.3 [66.6]		pF/ft [pF/m]
Operating Voltage (AC)			300	Vrms

Specifications 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

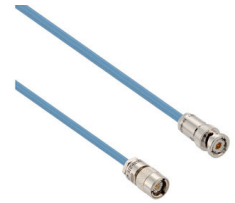
Weight 0.077 lbs [34.93 g]

Cable

Cable Type 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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Connectors

Description	Connector 1	Connector 2
Type	TRS SUBMINIATURE Plug Bayonet	TRB Plug Bayonet
Impedance	78 Ohms	78 Ohms
Contact Material and Plating	Bronze, Gold 30 micro inches	Bronze, Gold 30 micro inches
Contact Plating Specification	ASTM-B-488	ASTM-B-488
Dielectric Type	Teflon	Teflon
Outer Conductor Material and Plating	Phosphor Bronze, Gold	Phosphor Bronze, Gold
Outer Conductor Plating Specification	30 micro inches	30 micro inches
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	ASTM-B-733	ASTM-B-733

Environmental Specifications

Temperature

Operating Range

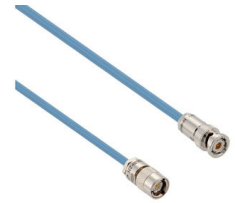
-20 to +75 deg C

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

Plotted and Other Data

Notes:

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Lead Free TRS Subminiature Plug to 3-Slot TRB Plug for PE-30-02003 Cable

RF Cable Assemblies Technical Data Sheet

PE3MSA00490

How to Order

Part Number Configuration:

PE3MSA00490

- **xx**

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Unit of Measure:
cm = Centimeters
<blank> = Inches
Length
Base Number

Example: PE3MSA00490-12 = 12 inches long cable
PE3MSA00490-100cm = 100 cm long cable

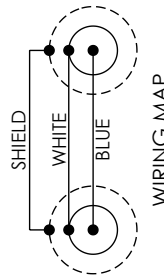
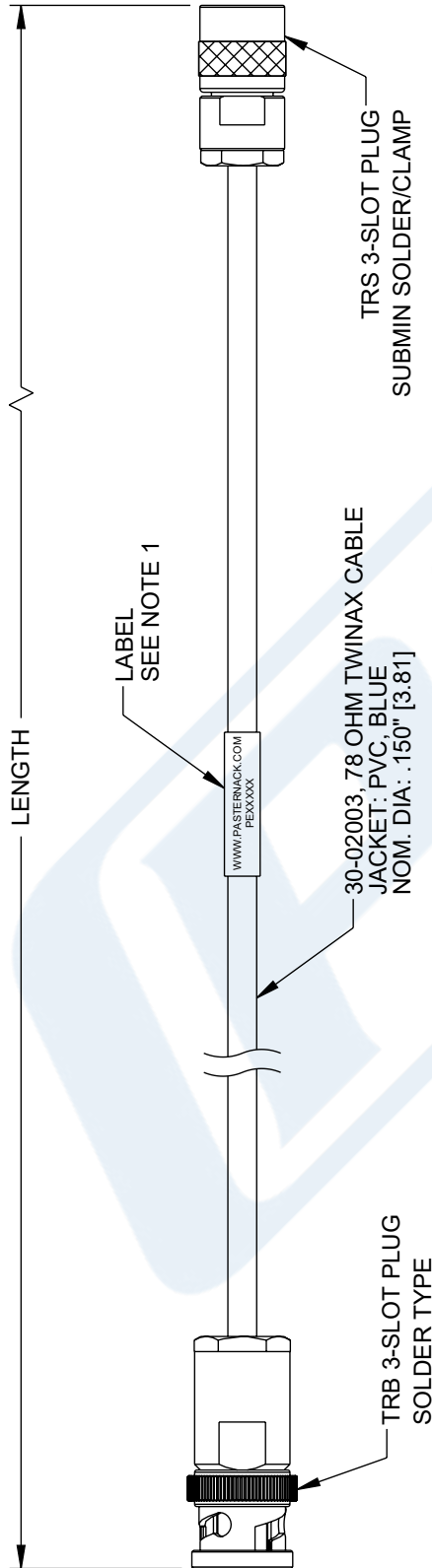
Lead Free TRS Subminiature Plug to 3-Slot TRB Plug for PE-30-02003 Cable from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Lead Free TRS Subminiature Plug to 3-Slot TRB Plug for PE-30-02003 Cable PE3MSA00490](#)

URL: <https://www.pasternack.com/lead-free-trs-subminiature-plug-to-trb-plug-1553-cable-using-pe-30-02003-pe3msa00490-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. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

LEAD FREE SOLDER



ITEM NUMBER	LENGTH	
	FEET	METERS
PE3MSA00490-12	1.0	.31
PE3MSA00490-24	2.0	.61
PE3MSA00490-36	3.0	.92
PE3MSA00490-48	4.0	1.22
PE3MSA00490-60	5.0	1.52

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.

REGULATORY COMPLIANCE:

EU RoHS DIRECTIVE (MOST RECENT RELEASED VERSION)

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

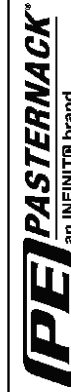
TOLERANCES:

X = ±.2 [5] FRACTIONS
.XX = ±.02 [.5] ±.1/32
.XXX = ±.005 [.13] ANGLES ± 1°

CABLE LENGTH TOLERANCES:

≤12 [305] = ±1 [25] / -0
>12 [305] ≤ 60 [1524] = ±2 [51] / -0
>60 [1524] ≤ 120 [3048] = ±4 [102] / -0
>120 [3048] ≤ 300 [7620] = ±6 [152] / -0
>300 [7620] = ±5% / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY
AND SUBJECT TO CHANGE WITHOUT NOTICE.

Website: www.Pasternack.com

Phone: 1.866.727.8376 | 1.949.261.1920

DESCRIPTION

LEAD FREE .150" OD TRS SUBMIN PLUG - TRB PLUG

INTERPRET ALL DIMENSIONS AND
TOLERANCES PER ASME Y14.5

SCALE

NONE

SHEET

1 OF 1

CAGE CODE 53919

DRAWN BY DMAY

ITEM NO.

PE3MSA00490

REV

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