



Lead Free TRS Subminiature Plug to TRS Subminiature Plug
1553 Cable 36 Inch Length Using 78 Ohm M17/176-00002 Coax

RF Cable Assemblies Technical Data Sheet

PE3MSA00457-36

Configuration

- Connector 1: TRS SUBMINIATURE PLUG
- Connector 2: TRS SUBMINIATURE PLUG
- Cable Type: M17/176-00002
- Coax Flex Type: Flexible

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

Description

Pasternack's PE3MSA00457-36 78 ohm TRS Subminiature plug to 78 ohm TRS Subminiature plug 36 inch cable using 78 ohm M17/176-00002 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 TRS Subminiature cable assembly has a plug to plug gender configuration with 78 ohm flexible M17/176-00002 twinax. The PE3MSA00457-36 TRS Subminiature plug to TRS Subminiature plug cable assembly operates to 10 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.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		10	MHz
Capacitance		24 [78.74]		pF/ft [pF/m]
Operating Voltage (AC)			750,000	Vrms

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	3	5	7	10	MHz
Insertion Loss (Typ.)	0.242	0.263	0.284	0.305	0.335	dB

Electrical Specification Notes:

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 TRS Subminiature Plug 1553 Cable 36 Inch Length Using 78 Ohm M17/176-00002 Coax PE3MSA00457-36](#)



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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*	36 in [914.4 mm]
Weight	0.104 lbs [47.17 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

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	TRS SUBMINIATURE PLUG
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	-55 to +200 deg C
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Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

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 TRS Subminiature Plug 1553 Cable 36 Inch Length Using 78 Ohm M17/176-00002 Coax PE3MSA00457-36](#)



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PE3MSA00457-36

How to Order

Part Number Configuration:

PE3MSA00457

- **xx**

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Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE3MSA00457-12 = 12 inches long cable
PE3MSA00457-100cm = 100 cm long cable

Lead Free TRS Subminiature Plug to TRS Subminiature Plug 1553 Cable 36 Inch Length Using 78 Ohm M17/176-00002 Coax 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 TRS Subminiature Plug 1553 Cable 36 Inch Length Using 78 Ohm M17/176-00002 Coax PE3MSA00457-36](https://www.pasternack.com/lead-free-trs-subminiature-plug-to-trs-subminiature-plug-1553-cable-36-inch-length-using-m17-176-00002-coax-pe3msa00457-36)

URL: <https://www.pasternack.com/lead-free-trs-subminiature-plug-to-trs-subminiature-plug-1553-cable-36-inch-length-using-m17-176-00002-pe3msa00457-36-p.aspx>

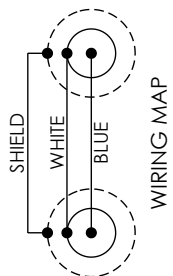
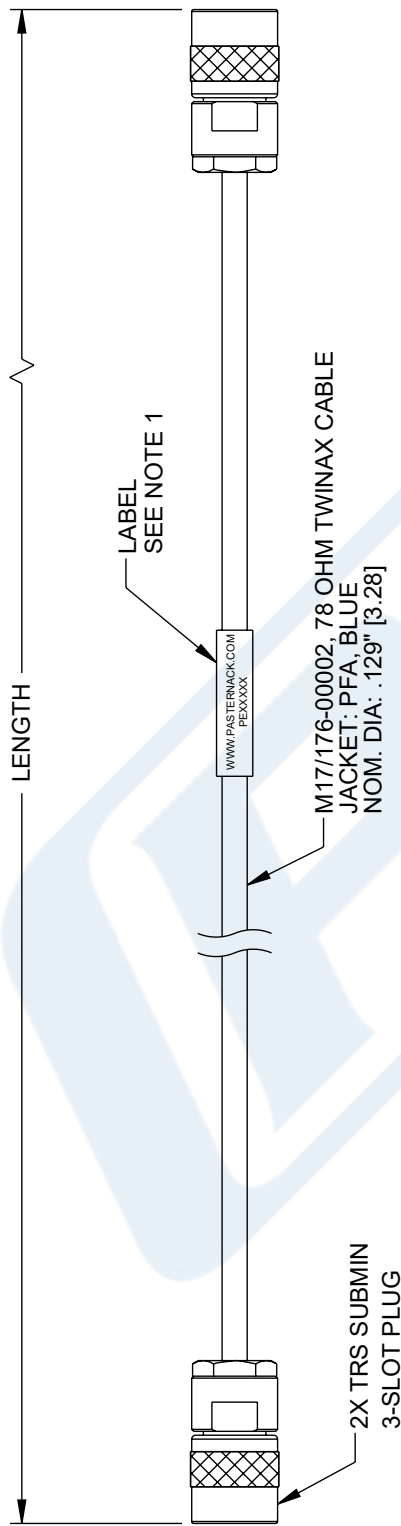
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PE3MSA00457-36 CAD Drawing

Lead Free TRS Subminiature Plug to TRS Subminiature Plug 1553 Cable

36 Inch Length Using 78 Ohm M17/176-00002 Coax

LEAD FREE SOLDER



ITEM NUMBER	LENGTH	
	FEET	METERS
PE3MSA00457-12	1.0	.31
PE3MSA00457-24	2.0	.61
PE3MSA00457-36	3.0	.92
PE3MSA00457-48	4.0	1.22
PE3MSA00457-60	5.0	1.52

NOTES:

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

CABLE LENGTH TOLERANCES:

≤12 [305]	±.125 [-0]
>12 [305] ≤ 60 [1524]	±.25 [-0]
>60 [1524] ≤ 120 [3048]	±.5 [-0]
>120 [3048] ≤ 300 [7620]	±1.0 [-0]
>300 [7620]	±2.0 [-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 HIGH TEMP TRS SUBMIN PLUG - TRS SUBMIN PLUG

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE: NONE

SHEET: 1 OF 1

REV A

ITEM NO. PE3MSA00457

DRAWN BY DMAY

CAGE CODE 53919

