

1553 TRS Subminiature Plug to TRS Subminiature Plug Cable 78 Ohm M17/176-00002 Coax in 36 Inch

The 78 ohm TRS Subminiature plug to 78 ohm TRS Subminiature plug 36 inch cable using 78 ohm M17/176-00002 twinax, part number FM3MP2134-36, from Fairview Microwave is in-stock and ships same day. This Fairview TRS Subminiature to TRS Subminiature cable assembly has a plug to plug 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 FM3MP2134-36 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 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.) | 0.242 | 0.263 | 0.284 | 0.305 | 0.335 | 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* | 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] |
|------------------------------|------------------|



Configuration:

- TRS Subminiature Plug
- TRS Subminiature Plug
- 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

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

Connectors

| Description | Connector 1 | Connector 2 |
|-------------------------------|-------------------------------|-------------------------------|
| Type | TRS Subminiature 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 -55 to +200 deg C

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

Plotted and Other Data

Notes:

How to Order

Part Number Configuration: **FM3MP2134 - xx uu**

cm = Centimeters
<blank> = Inches

Length

Example: FM3MP2134-12 = 12 inches long cable
FM3MP2134-100cm = 100 cm long cable

1553 TRS Subminiature Plug to TRS Subminiature Plug Cable 78 Ohm M17/176-00002 Coax in 36 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 TRS Subminiature Plug to TRS Subminiature Plug Cable 78 Ohm M17/176-00002 Coax in 36 Inch FM3MP2134-36](#)

URL: <https://www.fairviewmicrowave.com/1553-trs-subminiature-plug-to-trs-subminiature-plug-cable-78-ohm-m17-176-00002-coax-in-36-inch-fm3mp2134-36-p.aspx>

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