

**M17/176-00002-FM 77 Ohm Flexible Coax Cable**  
**Blue PFA Jacket**
**Electrical Specifications**

Description	Min	Typ	Max	Units
Impedance		77		Ohms
Operating Voltage (AC)			750,000	Vrms
Nominal Capacitance		24		pF/ft
		[78.74]		[pF/m]

**Performance by Frequency Band**

Description	F1	F2	F3	F4	F5	Units
Frequency	1	3	10			MHz
Attenuation, Typ	1.4	2.1	4.5			dB/100ft dB/100m
	4.59	6.89	14.76			

**Mechanical Specifications**

Diameter	0.129 in [3.28 mm]
Weight	0.018 lbs/ft [0.03 kg/m]
Min. Bend Radius (Installation)	1.5 in [38.1 mm]

**Construction Specifications**

Description	Material and Plating	Diameter
Dielectric	PTFE	0.042 in [1.07 mm]
Jacket	PFA, Blue	0.129 in [3.28 mm]

**Environmental Specifications**

<b>Temperature</b>	
Operating Range	-55 to +200 deg C

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

**Plotted and Other Data**

Notes:


**Configuration:**

- Flexible Cable

**Features:**

- MIL-STD-1553
- -55°C to +200°C
- 78 ohms

**Applications:**

- Vehicle High Temperature
- Data
- MIL-STD-1553

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M17/176-00002-FM 77 Ohm Flexible Coax Cable Blue PFA Jacket 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: [M17/176-00002-FM 77 Ohm Flexible Coax Cable Blue PFA Jacket M17/176-00002-FM](#)

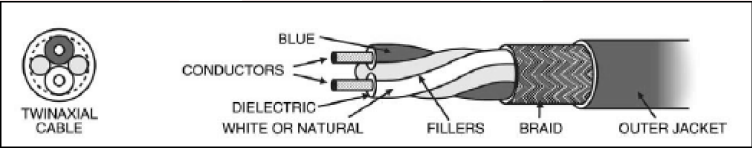
URL: <https://www.fairviewmicrowave.com/77-ohm-invalid-alias-flexible-coax-cable-pfa-jacket-m17-176-00002-fm-p.aspx>

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.



		REVISION			
ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
	A	INITIAL RELEASE	07/18/2023	SREITER	EKIM



CHARACTERISTICS	
NOMINAL IMPEDANCE (ohms)	77 ± 7
NOMINAL OUTSIDE DIAMETER (in)	0.129
CONDUCTOR DIAMETER (in)	0.024
OPERATING TEMPERATURE RANGE	-55 °C TO +200 °C
MINIMUM BEND RADIUS (in)	1.50
NOMINAL CAPACITANCE (pF/ft)	24
OUTER JACKET MATERIAL	PFA
INSULATION MATERIAL	PTFE
SHIELD COVERAGE	93%
ATTENUATION (dB/100 ft)	1.40 @ 1 MHz
	4.50 MAX @ 10 MHz

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

**TOLERANCES:**

X = ±2 [5]	FRACTIONS ± 1/32
XX = ±0.02 [0.5]	ANGLES ± 1°
.XXX = ±0.005 [0.13]	

**CABLE LENGTH TOLERANCES:**

≤12 [305] ± 0.01 [25] / -0	≤12 [305] ± 0.01 [25] / -0
>12 [305] ≤ 60 [1524] ± 0.02 [51] / -0	>12 [305] ≤ 60 [1524] ± 0.02 [51] / -0
>60 [1524] ≤ 120 [3048] ± 0.04 [102] / -0	>60 [1524] ≤ 120 [3048] ± 0.04 [102] / -0
>120 [3048] ≤ 300 [7620] ± 0.06 [152] / -0	>120 [3048] ≤ 300 [7620] ± 0.06 [152] / -0
>300 [7620] ± 0.08 [203] / -0	>300 [7620] ± 0.08 [203] / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY  
AND SUBJECT TO CHANGE WITHOUT NOTICE  
UN-DIMENSIONED NON-CRITICAL FEATURES  
MAY VARY IN SIZE AND LOCATION  
COLORS MAY VARY

**Fairview Microwave**  
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Website: [www.FairviewMicrowave.com](http://www.FairviewMicrowave.com)  
Phone: 1.800.715.4396 | 1.972.649.6678

INTERPRET ALL DIMENSIONS AND  
TOLERANCES PER ASME Y14.5

SCALE	SHEET
NONE	1 OF 1

DESCRIPTION				
TWINAX CABLE 78 OHM HIGH TEMP				
SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	3FKR5	SREITER	M17/176-00002	A

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