

# .141 Semi-rigid Formable Coax Cable Black FEP Jacket

Formable semi-rigid coax is a hand formable version of standard semi-rigid that does not require complicated and costly preformed cable assemblies. Because the dimensions and electrical characteristics are so closely matched to semi-rigid coax, standard semi-rigid connectors can be used. The tin soaked copper braid outer shield provides excellent RF shielding. FEP Jacket reduces the chance of shorting exposed contacts or circuit conductors.

### **Electrical Specifications**

Description	Min	Тур	Мах	Units
Frequency Range	DC		20	GHz
Cutoff Frequency		34		GHz
Impedance		50		Ohms
Velocity of Propagation		70		%
Time Delay		1.43 [4.69]		ns/ft [ns/m]
Shielding Effectiveness	110			dB
Operating Voltage (AC)			1,900	Vrms
Nominal Capacitance		29		pF/ft
		[95.14]		[pF/m]

#### Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	5	10	20	GHz
Attenuation, Typ	8 26.2 <mark>5</mark>	12 39.37	29 95.14	45 147.64	70 229.66	dB/100ft dB/100m

## **Mechanical Specifications**

Diameter Weight

Min. Bend Radius (Installation) Min. Bend Radius (Repeated) 0.315 in [8 mm] 1.575 in [40.01 mm]

0.029 lbs/ft [0.04 kg/m]

0.161 in [4.09 mm]

#### **Construction Specifications**

Description	Material and Plating	Diameter
Inner Conductor	Copper Clad Steel, Silver, 1 Strands	0.036 in [0.91 mm]
Conductor Type	Solid	
Dielectric	PTFE	0.117 in [2.97 mm]
First Shield	Tinned Copper Braid	[]
Jacket	FEP, Black	0.161 in [4.09 mm]





# **Configuration:**

- Formable Cable
- 1 Shield(s)

# **Features:**

- Dimensionally the same as standard solid outer conductor semirigid coax
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- Standard semi-rigid connectors can be used
- Cable is hand formable and does not require special tools to bend
- Connectors are easily soldered to Tin soaked outer conductor
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- Cable can be formed more than once without damage to outer conductor
- High RF Shielding >100 dB

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





#### **Environmental Specifications**

**Temperature** Operating Range

-65 to +150 deg C

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

Plotted and Other Data Notes:

.141 Semi-rigid Formable Coax Cable Black FEP 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: .141 Semi-rigid Formable Coax Cable Black FEP Jacket FM-SR141TBJ-BULK

URL: https://www.fairviewmicrowave.com/fm-sr141tbj-formable-coax-cable-fep-jacket-fm-sr141tbj-bulk-p.aspx

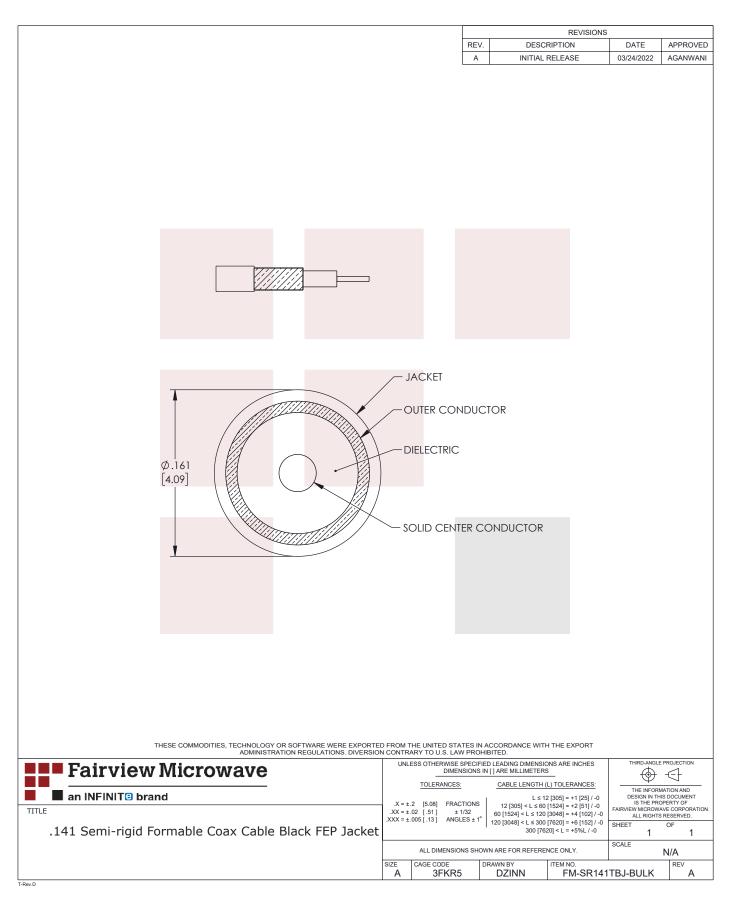
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301 Leora Ln., Suite 100, Lewisville, TX 75056 | Tel: 1-800-715-4396 / (972) 649-6678 / Fax: (972) 649-6689

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