



## SF<sup>®</sup>-142

### HIGH PERFORMANCE MICROWAVE CABLE

SF<sup>®</sup> high performance microwave cables are rugged and flexible, making them ideal for interconnect applications from inside LRU's to system interconnects and antenna feeders in military and commercial systems. The wide range of available connectors covers many interface types and frequency ranges.

#### Mechanical Properties

	Units	
Diameter	in (mm)	.195 (4.95)
Weight	lb/ft (kg/m)	.043 (.064)
Minimum Bend Radius	in(mm)	1.0 (25.4)
Operating Temperature	°F (°C)	-67° to 392°(-55 to 200)

#### Electrical Properties

	Units	
Impedance	Ω	50 +/- 2
Maximum Frequency	GHz	18
Capacitance	pF/ft (pF/m)	29.4 (96.5)
Velocity of Propagation		69.5 %
Delay	ns/ft (ns/m)	1.46 (4.80)
Shielding		95 > dB minimum
Operating Voltage	Volts RMS	1.9 kV
Jacket Spark	Volts RMS	3.0 kV

Attenuation	dB/ft	dB/m
400 MHz	.07	(0.23)
1.0 GHz	.12	(0.39)
3.0 GHz	.22	(0.72)
12.0 GHz	.50	(1.64)
18.0 GHz	.64	(2.10)

#### WORLD HEADQUARTERS

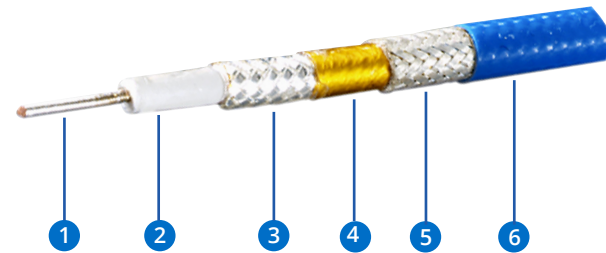
358 Hall Avenue, Wallingford, CT 06492  
1-800-867-2629

#### FEATURES

- Low loss
- Flexible and rugged
- High power handling

#### KEY APPLICATIONS

- Military & commercial systems
- Microwave Interconnects



- 1 Inner Conductor** Solid silver covered steel
- 2 Dielectric** PTFE
- 3 Inner Shield** Silver plated copper flat braid
- 4 Interlayer** Aluminum/Kapton<sup>®</sup> tape
- 5 Outer shield** Round wire braid
- 6 Jacket** Blue FEP

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