

Overview

Southwest Antennas Part # 1066-031 is a dual band S/C omni-directional concealment antenna that operates in the 2.1 - 2.5 GHz and 4.4 - 5.0 GHz frequency bands. This product is designed to be integrated inside of other devices. The antenna can be tuned to optimize performance inside of specific concealments. This antenna features a 5.25 inch RF cable and a U.FL RF connector. The antenna operates as a half wave dipole in S-Band while operating as a full wave dipole in C-Band.

Features

- Dual Band Coverage:
 - 2.1 - 2.5 GHz
 - 4.4 - 5.0 GHz
- Half Wave and Full Wave Dipole Design
- 1.8 dBi Omni Radiation Pattern in S-Band, 3.0 dBi in C-Band
- Small Form Factor
- High Performance
- Vertical Polarization
- Extremely Light Weight
- Easily Concealed
- U.FL RF Connector
- Robust Heat Shrink Strain Relief Epoxied to RF Cable
- On-Board Adjustable Matching Circuit Allows for Antenna Feed Point Tuning for Custom Applications
- Ideal for Concealment & Surveillance Applications

Markets and Applications Include:

- Military / Defense
- Law Enforcement
- Surveillance
- Security

Note 1: Antenna horizontal and vertical beamwidth measured in free space. Antenna pattern may differ when antenna is placed in concealment. Long axis of antenna corresponds to vertical polarization.

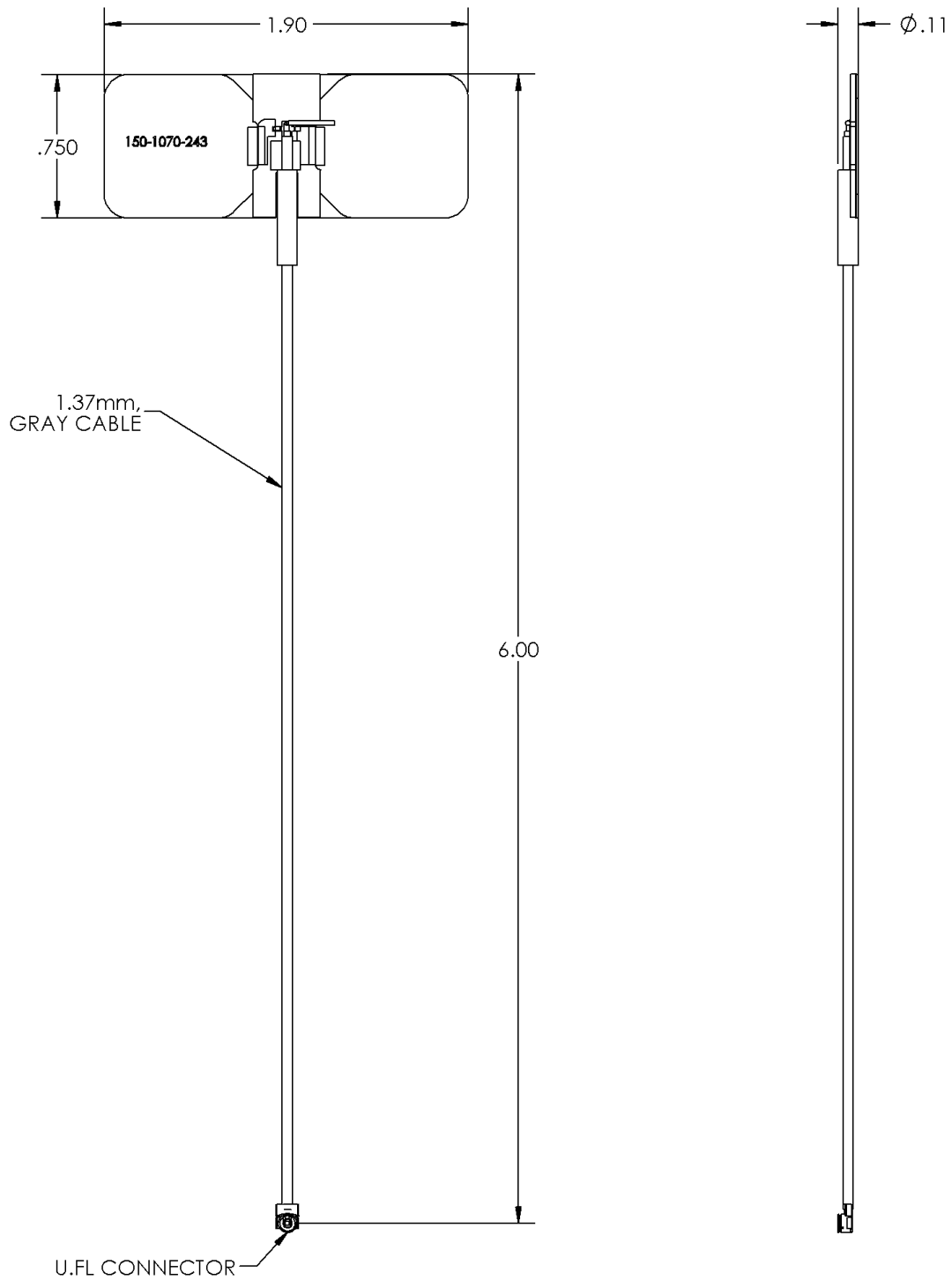
Note 2: Antenna performance is highly dependent on proper use of adhesive backing to stand antenna off of concealment inner wall / substrate material far enough to achieve optimum RF performance.



Product Specifications

Parameter	Value	Units	Tolerance
Antenna Pattern	Omni Antenna		
Frequency Band	S & C		
Impedance	50		
Minimum Frequency	2.1 / 2,100	GHz / MHz	
Maximum Frequency	2.5 / 2,500	GHz / MHz	
Minimum Frequency 2	4.4 / 4,400	GHz / MHz	
Maximum Frequency 2	5.0 / 5,000	GHz / MHz	
Maximum VSWR	2:1	Ratio	
Maximum Gain	1.80	dBi	3.0 dBi in C-Band
Polarization	Vertical		
Maximum RF Input Power	10	Watts	
Horizontal AZ Beamwidth	360	Degrees	
Vertical EL Beamwidth	81	Degrees	
Spring	No		
Gooseneck	No		
Ground Plane Required	No		
Mount Style	Optional Double Stick Tape		
RF Connector Type	U.FL		
RF Cable Length	5.25 / 133.35	inches / mm	
Operating Temperature Range	-40 to +85	C	
Product Length	1.9 / 48.3	inches / mm	
Product Width	.750 / 19.050	inches / mm	

Parameter	Value	Units	Tolerance
Product Height	.110 / 2.794	inches / mm	
Product Weight	1.00 / 28.35	oz / g	



Engineering Drawing

All dimensions are in inches