

PRELIMINARY

Overview

Part # 1040-047 from Southwest Antennas is a coaxial gooseneck assembly that features an overall length of 4.95 inches, an outside diameter of 0.5 inches, and non-rotating SMA(m) and SMA(f) RF connectors. This model is waterproof to a depth of 20 meters (65.6 ft.) and has a black low-visibility finish.

The 4.94" RF Coaxial Gooseneck Assembly allows for flexible antenna mounting options, allowing omni antennas to be mounted in different positions with respect to other antennas. This becomes particularly useful when dealing with dismounted user applications and manpack radio systems. Southwest Antennas RF Coaxial Gooseneck Assemblies can also be threaded through vest loops, web gear, and MOLLE gear giving users increased flexibility in antenna mounting options.

Features:

- DC - 3 GHz
- 0.52" Flex-Arm Outside Diameter (Includes Primary Seal)
- Durable Raychem NTRF Neoprene Heat Shrink Primary Seal
- Two Secondary Polyolefin Heat Shrink Seals
- Waterproof to 20 Meters (65.6 ft.)
- Low RF Insertion Loss
- Black Chrome RF Connectors
- SMA(m) & SMA(f) Non-Rotating RF Connectors
 - SMA(m) RF Connector Features Additional O-Ring Seal
- Light-Weight Design
- Ruggedized Design
- Black Finish / Low Visibility



Applications

- Transmit & Receive Antennas
- Handheld Radios
- Body Worn Radios & Systems
- Small Form Factor Radios
- Unattended Sensor Systems
- Dismounted Communications
- Precision Surveying Receivers
- Unmanned Ground Vehicles
- I.E.D. Recognition & Destruction Jamming Systems
- Asset Tracking
- Oil & Gas Industries
- Law Enforcement
- Military / Defense

PRELIMINARY

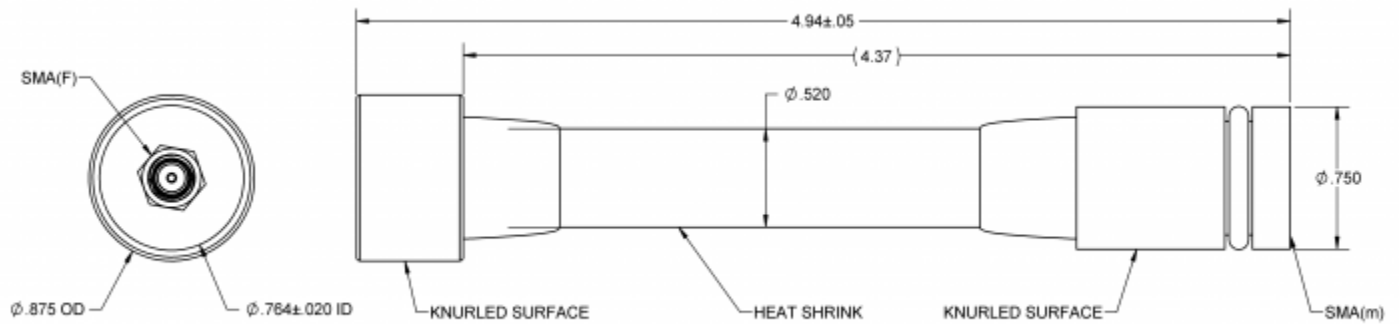
RF Gooseneck Specifications

Parameter	Value	Units	Tolerance
RF Gooseneck Impedance	50	Ohms	
RF Gooseneck Operating Frequency Range	DC to 3 GHz		
RF Gooseneck Insertion Loss (Typical)	500MHz = -.4dB, 1GHz = -.5dB, 2GHz = -.6dB, 3GHz = -.7dB, 4GHz = -.8dB, 5GHz = -1.25dB, 6GHz = -1.5dB		
RF Gooseneck VSWR (Max)	2.0:1		
RF Gooseneck Power Handling (Max)	50	Watts	
RF Gooseneck Max Load Vertically Mounted	1.8 / 0.8	lbs / kg	
RF Gooseneck Max Load Horizontally Mounted	0.9 / 0.4	lbs / kg	
RF Gooseneck Flexarm Material	Steel and aluminum construction		
RF Gooseneck Flexarm Finish	Gooseneck flex arm covered and sealed with primary Neoprene shrink tube (Raychem NTFR material), two secondary environmental seals provided by Polyolefin glue lined shrink tube (Raychem ATUM 3/4 material)		
RF Gooseneck RF Connector Interfaces	MIL-STD-348 compliant RF Connectors, black chrome finish per MIL-DTL-14538		
RF Gooseneck RF Connector Types	SMA(m) (non-rotating) & SMA(f) (non-rotating)		
Waterproof	Gooseneck assembly to show no evidence of moisture internally when submerged in 20 meters of water (all connectors capped with QPL dust caps)		
RF Gooseneck Operating Temp	-40 to +85	C	
RF Gooseneck Storage Temp	-55 to +85	C	
Product Length	4.94 / 125.48	inches / mm	±0.5"
Product Diameter	0.52 / 13.21	inches / mm	±0.1"

PRELIMINARY

Parameter	Value	Units	Tolerance
Product Weight	4.1 / 116.2	oz / grams	

PRELIMINARY



Engineering Drawing

All dimensions are in inches