

Overview

The 12" 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 MIMO radio antenna setups & dismounted user applications. 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.

Part #1040-027 from Southwest Antennas features an overall length of twelve inches, an outside diameter of 0.47 inches, and Type-N(m) Non-Rotating to SMA(m) Non-Rotating RF connectors. This model is waterproof to a depth of 20 meters (65.6 ft.), can bend and hold past a 180-degree angle, and has a black low-visibility finish.

Features

- DC - 5 GHz
- .47" Diameter Flex-Arm Outside Diameter (Includes Primary Seal)
- Durable Raychem NTFR Neoprene Heat Shrink Primary Seal
- Two Secondary Polyolefin Heat Shrink Seals
- Waterproof to 20 Meters (65.6 ft.)
- Low RF Insertion Loss
- Bend & Hold 180°+
- Type-N(m) Non-Rotating to SMA(m) Non-Rotating Black Chrome RF Connectors
- Light-Weight Design
- Rugged Design
- "Flat Black" Finish / Low Visibility

Applications:

- Transmit & Receive Antennas
- Body Worn Radios & Systems
- Handheld Radios
- 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



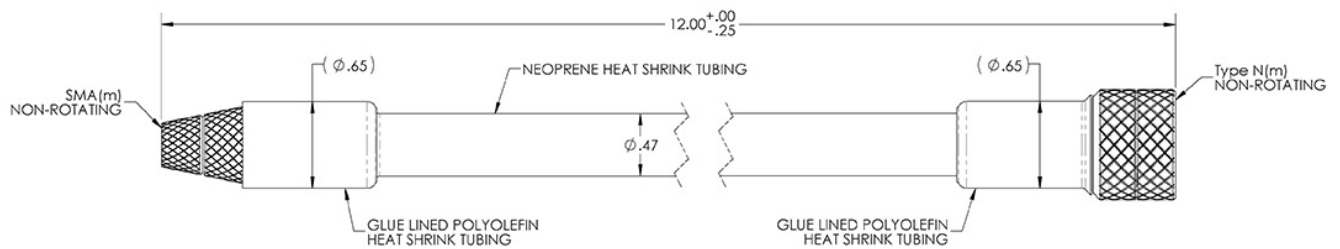
Product Specifications

Parameter	Value	Units	Tolerance
Product Length	12 / 305	inches / mm	+.000" - .250"
Product Diameter	0.47 / 11.94	inches / mm	±.1"
Product Weight	4.40 / 124.74	oz / g	

RF Gooseneck Specifications

Parameter	Value	Units	Tolerance
RF Gooseneck Impedance	50	Ohms	
RF Gooseneck Operating Frequency Range	DC to 5 GHz		
RF Gooseneck Insertion Loss Typical	500MHz = -.35dB, 1GHz = -.5dB, 2GHz = -.75dB, 3GHz = -1.0dB, 4GHz = -1.0dB, 5GHz = -1.05dB		
RF Gooseneck VSWR Max	1.9:1	Ratio	
RF Gooseneck Power Handling Max	50	Watts	
RF Gooseneck Max Load Vertically Mounted	0.60 / 0.27	lbs / kg	
RF Gooseneck Max Load Horizontally Mounted	0.50 / 0.23	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	Type-N(m) Non-Rotating & SMA(m) Non-Rotating		
Waterproof	Gooseneck assembly to show no evidence of moisture internally when submerged in 20 meters of water (all connectors capped with QPL SMA dust caps)		
RF Gooseneck Operating Temperature	-40 to +85	C	

Parameter	Value	Units	Tolerance
RF Gooseneck Storage Temperature	-55 to +85	C	



Engineering Drawing

All dimensions are in inches