

PRELIMINARY

Overview

The 15" RF Coaxial Gooseneck Assembly allows for flexible antenna mounting options, allowing omni-directional 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 #1040-046 from Southwest Antennas features an overall length of 15 inches, an outside diameter of 0.47 inches, and rotating TNC-N(m) non-rotating to rotating TNC(m) rotating RF connectors. This model is waterproof to a depth of 20 meters (65.6 ft.), can bend and hold a 180-degree angle, and has a black low-visibility finish.

Features:

- DC - 6 GHz
- 0.47" Diameter Flex-Arm (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
- Bend & Hold 180°+
- Non-Rotating TNC(m) & Rotating TNC(m) RF Connectors
- 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

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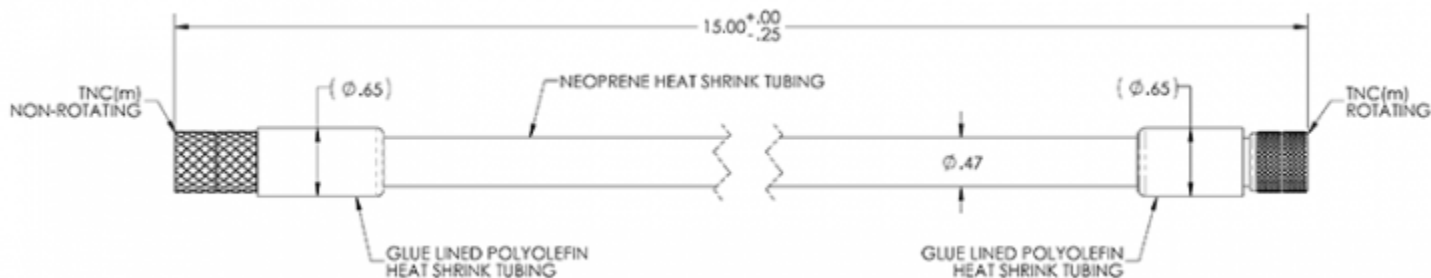
RF Gooseneck Specifications

Parameter	Value	Units	Tolerance
RF Gooseneck Impedance	50	Ohms	
RF Gooseneck Operating Frequency Range	DC to 6 GHz		
RF Gooseneck Insertion Loss (Typical)	500MHz = -.4dB, 1GHz = -.5dB, 2GHz = -.7dB, 3GHz = -.9dB, 4GHz = -1.1dB, 5GHz = -1.2dB, 6GHz = -1.5dB		
RF Gooseneck VSWR (Max)	2.0:1		
RF Gooseneck Power Handling (Max)	50	Watts	
RF Gooseneck Max Load Vertically Mounted	0.8 / 0.4	lbs / kg	
RF Gooseneck Max Load Horizontally Mounted	0.5 / 0.2	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	Non-Rotating TNC(m) & Rotating TNC(m)		
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	15.00 / 381.00	inches / mm	+ .000" - .250"
Product Diameter	0.47 / 11.94	inches / mm	

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Parameter	Value	Units	Tolerance
Product Weight	5.2 / 147.4	oz / grams	

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Engineering Drawing

All dimensions are in inches