

## Overview

The 12.05" 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 #1040-032 from Southwest Antennas operates from DC to 12 GHz, features an overall length of 12.05 inches, an outside diameter of 0.47 inches, and TNC(m) Rotating RF Connectors on both ends of the assembly. 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 - 12 GHz
- 12.05" Length (including RF connectors)
- .47" Diameter Flex-Arm (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
- Black Chrome RF Connectors
- Bend & Hold 180°+
- TNC(m) Rotating RF Connectors on both ends of assembly
- Light-Weight Design
- Rugged Design
- 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

### RF Gooseneck Specifications

Parameter	Value	Units	Tolerance
<b>RF Gooseneck Impedance</b>	50	Ohms	
<b>RF Gooseneck Operating Frequency Range</b>	DC to 12 GHz		
<b>RF Gooseneck Insertion Loss (Typical)</b>	500MHz = -.228dB, 1GHz = -.319dB, 2GHz = -.481dB, 3GHz = -.582dB, 4GHz = -.823dB, 5GHz = -.809dB, 6GHz = -.93dB, 7GHz = -.985dB, 8GHz = -.981dB, 9 GHz = -.961dB, 10 GHz = -.913, 11 GHz = -1.101dB, 12 GHz = -1.383dB		
<b>RF Gooseneck VSWR (Max)</b>	2.0:1		
<b>RF Gooseneck Power Handling (Max)</b>	50	Watts	
<b>RF Gooseneck Max Load Vertically Mounted</b>	0.60 / 0.27	lbs / kg	
<b>RF Gooseneck Max Load Horizontally Mounted</b>	0.50 / 0.23	lbs / kg	
<b>RF Gooseneck Flexarm Material</b>	Steel and aluminum construction		
<b>RF Gooseneck Flexarm Finish</b>	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)		
<b>RF Gooseneck RF Connector Interfaces</b>	MIL-STD-348 compliant RF Connectors, black chrome finish per MIL-DTL-14538		
<b>RF Gooseneck RF Connector Types</b>	TNC(m) Rotating		
<b>Waterproof</b>	Gooseneck assembly to show no evidence of moisture internally when submerged in 20 meters of water (all connectors capped with QPL SMA dust caps)		
<b>RF Gooseneck Operating Temp</b>	-40 to +85	C	
<b>RF Gooseneck Storage Temp</b>	-55 to +85	C	
<b>Product Length</b>	12.050 / 306.070	inches / mm	+ .000" - .250"
<b>Product Diameter</b>	0.470 / 11.938	inches / mm	±0.1"

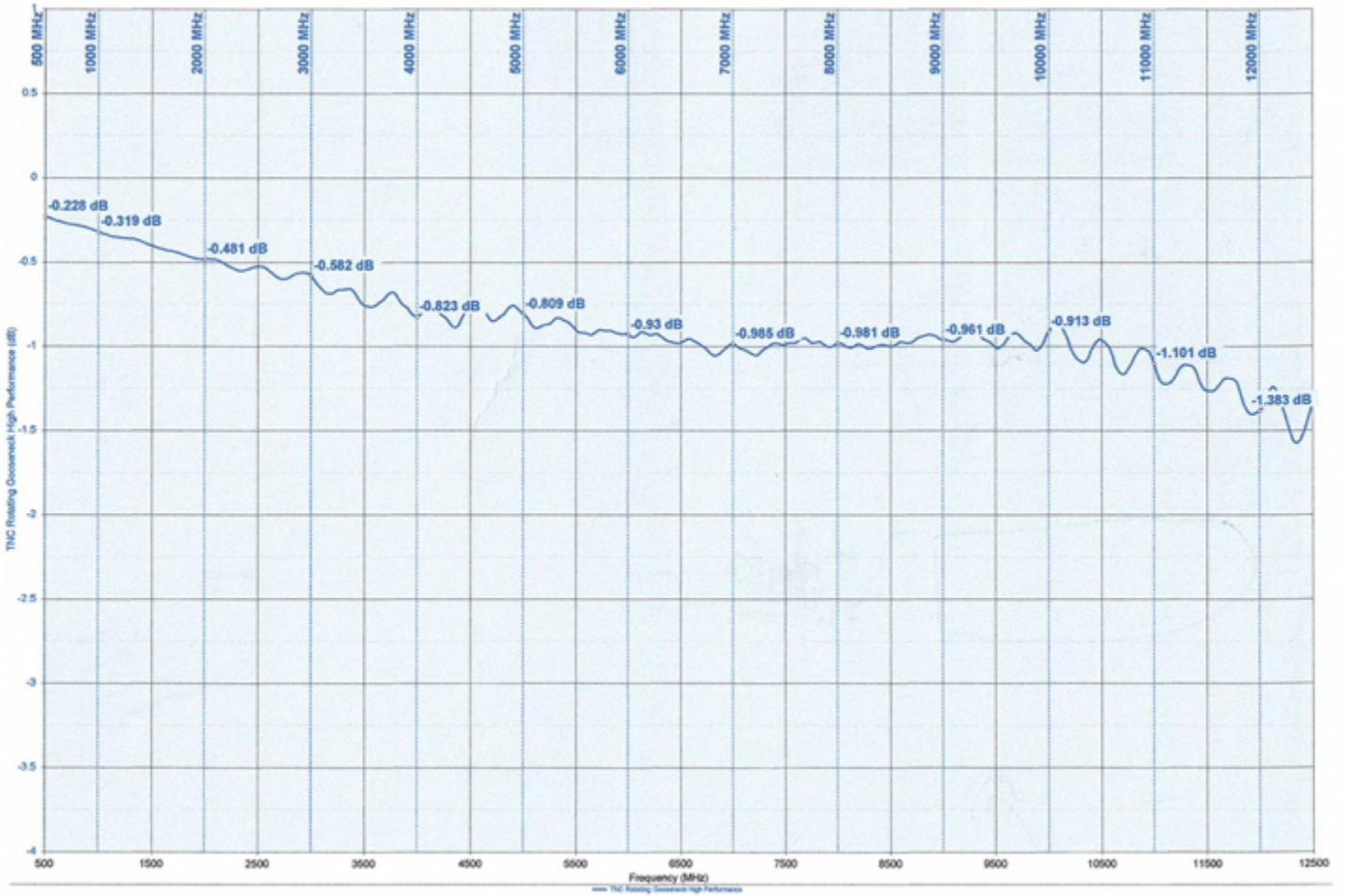


Part # 1040-032  
RF Coaxial Gooseneck Assembly 12.05", .47" OD, TNC(m) Rotating &  
TNC(m) Rotating RF Connectors

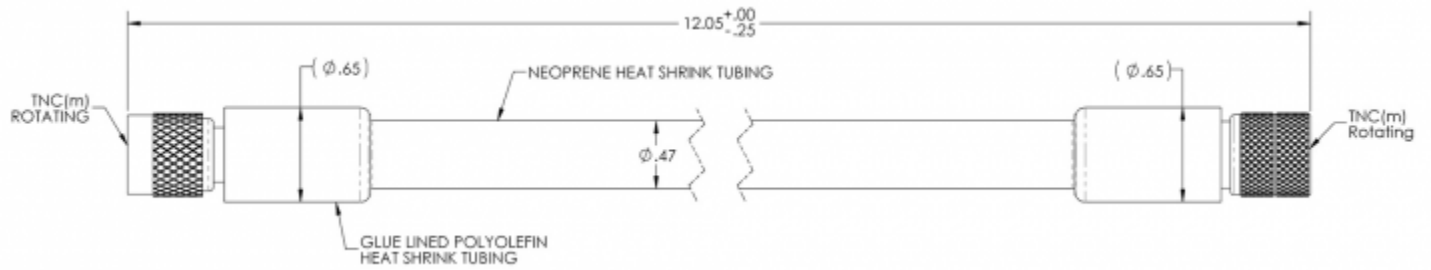
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Parameter	Value	Units	Tolerance
Product Weight	5.25 / 148.78	oz / grams	

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RF Coaxial Gooseneck Insertion Loss (Typical)



### Engineering Drawing

All dimensions are in inches