

Overview

Southwest Antennas Part # 1040-033 is a 12.5" RF Coaxial Gooseneck Assembly that 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 # 1040-033 from Southwest Antennas operates from DC to 12 GHz, features an overall length of 12.5 inches, an outside diameter of 0.47 inches, and stainless steel TNC(m) Rotating RF connectors with hex flats 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.

Note: Southwest Antennas recommends hand-tightening the RF connectors to "finger tight" in order to avoid damaging the gooseneck assembly by applying too much torque. Using hand tools to tighten may result in unintended damage to the product.

Features:

- DC - 12 GHz
- 12.0" 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
- Stainless Steel TNC(m) RF Connectors with Hex Flats
- Bend & Hold 180°+
- 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



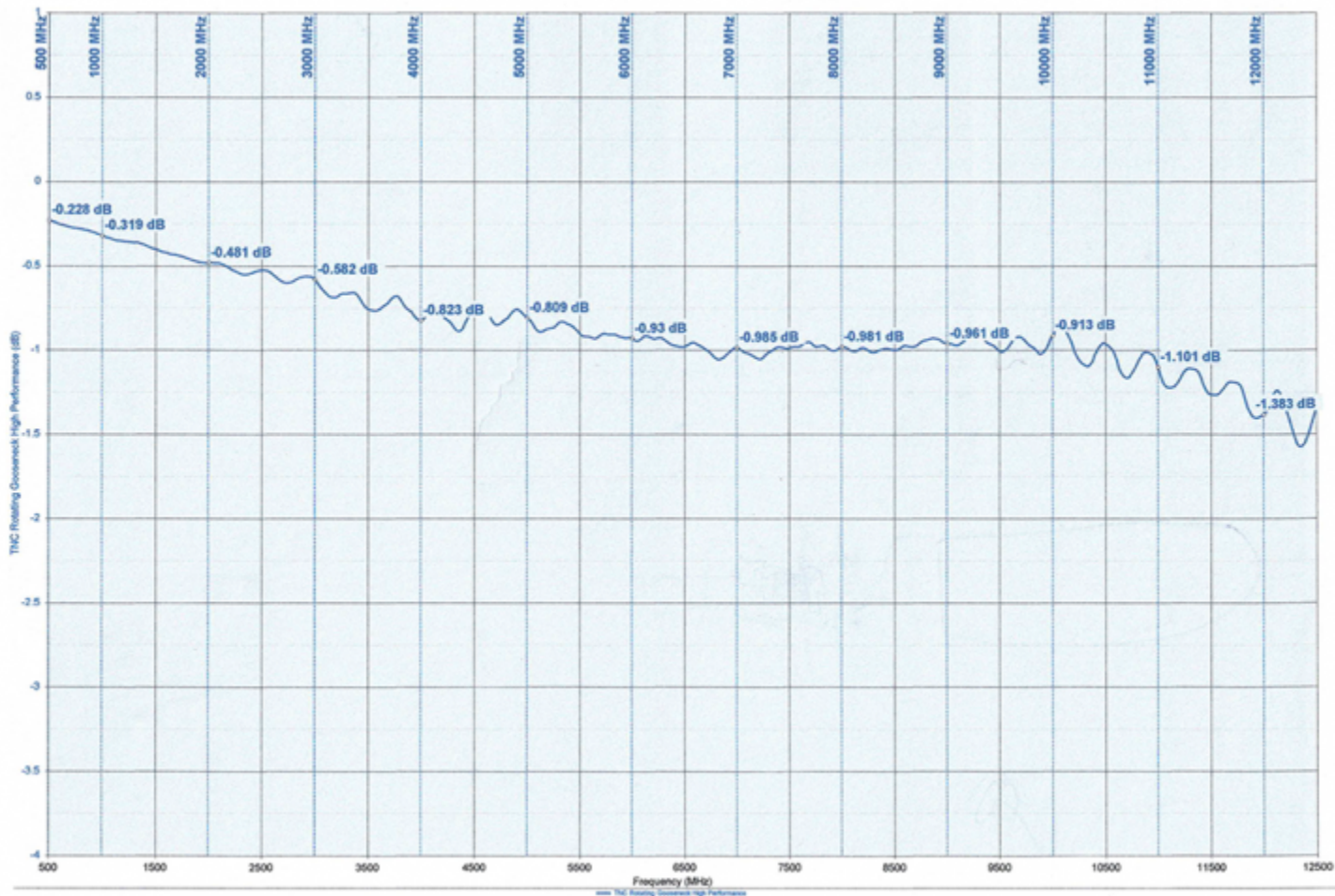
RF Gooseneck Specifications

Parameter	Value	Units	Tolerance
RF Gooseneck Impedance	50	Ohms	
RF Gooseneck Operating Frequency Range	DC to 12 GHz		
RF Gooseneck Insertion Loss (Typical)	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		
RF Gooseneck VSWR (Max)	2.0:1		
RF Gooseneck Power Handling (Max)	50	Watts	
RF Gooseneck Max Load Vertically Mounted	0.6 / 0.3	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	Stainless Steel TNC(m) 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 Temp	-40 to +85	C	
RF Gooseneck Storage Temp	-55 to +85	C	
Product Length	12.05 / 306.07	inches / mm	+ .000" - .250"
Product Diameter	0.47 / 11.94	inches / mm	±0.1"

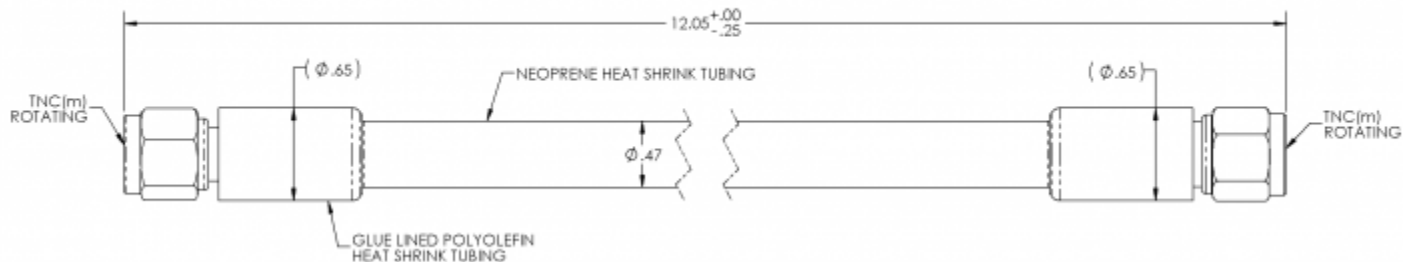


Part # 1040-033
RF Coaxial Gooseneck Assembly 12.5", .47" OD, Stainless Steel TNC(m)
Rotating RF Connectors

Parameter	Value	Units	Tolerance
Product Weight	5.2 / 148.8	oz / grams	



RF Coaxial Gooseneck Insertion Loss (Typical)



Engineering Drawing

All dimensions are in inches