



Dual UHF Antenna for Deep Sea Applications

P/N: 13R0405-0405VV-PP-32RG316X-UUO (400-480 MHz with 32in SMA Cables)

P/N: 13R0305-0827VV-48CPA2902-UUO (305-827 MHz with 48in CPA2902 Cable)

Other Frequencies and Connector Options are Available. *Depth Rate = 10 Km (14,555 PSI)*

ISO 9001:2008/FAA Approved Facility **Antenna Mounts/Adapters:** <http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts2.pdf>



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SPECIFICATIONS		REVISIONS			
ZONE	REV	DESCRIPTION	DATE	APPROVED	
-	-	-	-	-	-

ELECTRICAL:

FREQUENCY (MHz):	UHF (400-480) MHz
GAIN (dBic) in FS:	1 dBic
RADIATION PATTERN:	OMNIDIRECTIONAL
POLARIZATION:	VERTICAL
VSWR:	2:1

MECHANICAL:

SIZE: DIAMETERS = 1.360in [34.54mm], 2.500in [63.50mm]
HEIGHT = 12.974 in. [329.54 mm]

WEIGHT: 12.5 oz. (354.4 g)

FINISH: TEFLON COATED

MATERIAL: 6061-T6 ALUMINUM ALLOY BASE
COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT, AND SKYDROL RESISTANCE, FIRE RETARDANT

CONNECTOR: RG316 CABLE (OPTION: TNC, SMA, N, N Bulkhead, BNC)

ENVIRONMENTAL:

TEMPERATURE: -67 °F TO +185 °F [-55 °C TO +85 °C]

ALTITUDE: 70,000 ft.

VIBRATION: > 30 G's

WIND SPEED: > 135 Miles/hr

LEAKAGE: HERMETICALLY SEALED

FEDERAL & MILITARY SPECIFICATIONS:

DESIGN TO: FAA TSO-C144, DO-160D, D0-228, MIL-C-5541, MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

11.125 [282.58] 12.974 [329.54]

∅2.500 [∅63.50] ∅1.360 [∅34.54]

RG316 CABLE

4X 6-32 UNC .25 DEEP ON 1.107 RAD.

O-RING
O.D.: ∅1.278 [∅32.46]
I.D.: ∅1.090 [∅27.69]

TOP VIEW

P/N: 13R0405-0405VV-PP-32RG316X-UUO

CONFIGURATION:	FREQUENCY:	POLARIZATION:	LNA:	CONNECTOR:	COLOR:
53: (HELIX ROD)	IR: IRIIDIUM	LL: TX: LHCP, RX: LHCP	A1: WITH +34 dB LNA	RG316; RG316 CABLE	-1: GLOSS WHITE #17925 PER FED-STD-595B
5D: (HELIX BLADE)	L1L2; L1L2 GPS	LR: TX: LHCP, RX: RHCP	P: WITHOUT LNA	S: SMA; P: PINS	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
3D: (HELIX HANDHELD)	0405; UHF(400-480) MHz	RL: TX: RHCP, RX: LHCP		M: MCX; MM; MMCX	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
13: (HELIX Sextant Port)		RR: TX: RHCP, RX: RHCP		N: N; NB: NBulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
15: (HELIX Sextant Port)		V: VERTICAL, H: HORIZONTAL		T: TNC; TB: TNC- Bulkhead	-5: DESERT TAN #33446 PER FED-STD-595B
				B: BNC Female	-U: TEFLON COATED

1	O-RING	94115K024	NEOPRENE	-	1
-1					
QUANTITY REQD		DESCRIPTION	PART NO	MATERIAL	FINISH
PARTS LIST					

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS DECIMALS TOLERANCES ANGLES	ORIGINAL DRAWN S. HUYNH Dec-17-14	ANTCOM CORP. TORRANCE, CALIFORNIA	
± 1/64 .005 .005 ± 1°	ORIGINAL DESIGNED S. HUYNH Dec-17-14		
TOLERANCE SURF PER ANG 114.5	UPDATED S. HUYNH July-21-16		
REMOVE ALL SURFS BREAK EXTERNAL EDGES .005 TO .015 SURF FIN FINESSES PER MIL-S-8878 3X'S ON A CORNER 1/2 .005 MACHINED SURFACES 1/2	UPDATE DRAWN P. TRAN July-21-16		
DO NOT SCALE DRAWING	APPROVED S. HUYNH July-21-16	DUAL UHF ANTENNA	
		SCALE 1/1	SHEET 1 OF 1