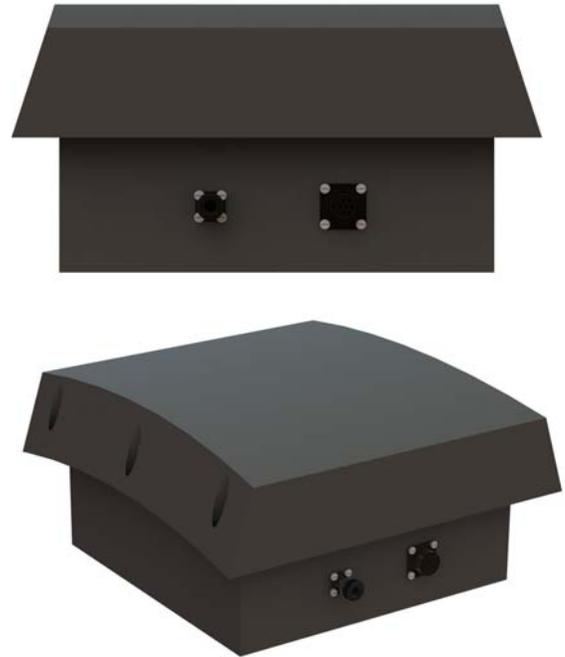




**21-160-26**  
**Semi Conformal Tuned**  
**UHF Satcom Antenna**  
**240 to 385 MHz**

## FEATURES

- **Ultra Low profile - less than 3" height**
- **Digital (fast) Tuning for Frequency hopping**
- **Covers UHF Satcom including MUOS**
- **Designed to MIL-STD-810**
- **Separate Logic Converter Units available for latest generation UHF Satcom radios**



The 21-160-26 represents the latest in tuneable antenna technology and provides extremely wide UHF Satcom bandwidth in an ultra low profile design.

Specially shaped radiating elements are tuned by a multiplicity of reactive components by high power p-i-n diodes which in turn are fast-tuned by digital command and thus compatible with latest frequency agile systems.

The antenna tuning modules are located in an aluminum cavity which recesses 3 inches below aircraft skin line and requires an 9.5 inch square cut-out in the skin. The external portion of the antenna is less than 3 inches height and is environmentally sealed within a glass epoxy radome.

Digital tuning commands are provided by a separate logic converter unit that uses latest FPGA technology and can be interfaced with latest generation, wide band transceivers.

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Cooper Antennas Ltd is Accredited to: ISO9001, AS9100, ISO14001 and MAA Approved

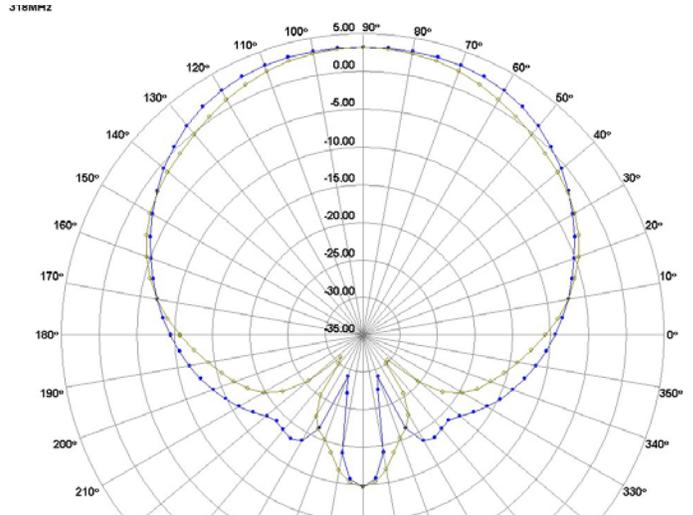
# SPECIFICATIONS

## Cooper Antennas Model 21-160-26

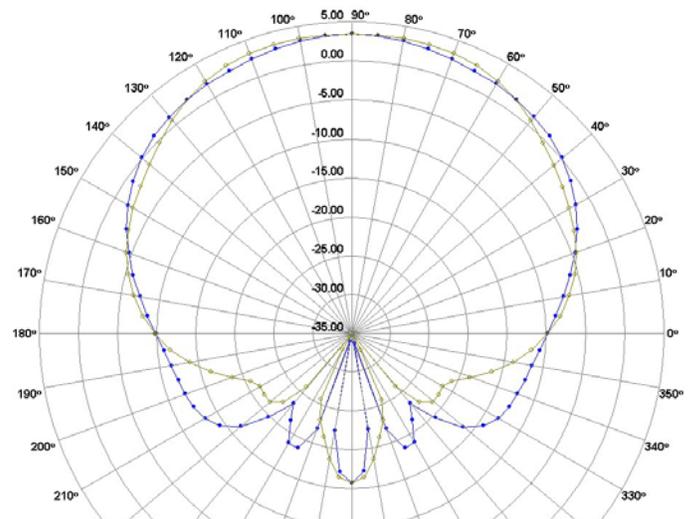
### Semi Conformal Tuned UHF Satcom Antenna

#### ELECTRICAL

Frequency	240 - 385 MHz
Gain @ zenith	+3.5dBiC average
VSWR	≤ 2.0:1
Impedance (nominal)	50 Ohms
Polarization	Right Hand Circular
Radiation	Nominally omni-directional in azimuth, Elevation -see graphs
Power Handling	200 Watts
Tuning Control	Via separate Logic Converter Unit (LCU)
Power Supply	28V DC, 1A max. (via LCU)
Tuning Time	60 μ seconds



Elevation (Roll/Pitch) Pattern at 318 MHz



Elevation (Roll/Pitch) Pattern at 385 MHz

#### MECHANICAL

Dimensions	12 inches x12 inches (305mm) square
Height (above skin)	2.5 inches (63mm)
Depth (below skin)	3 inches (76mm)
Skin cut-out	9.5 inches x 9.5 inches (242mm)
Weight	10lbs (4.5kg) max (antenna only) 2.2lbs 1kg max (LCU)

#### FINISH

Urethane Lusterless Black

Other finish options are available.

Please specify finish required when ordering

Note: Cooper Antennas Ltd has a policy of continuous product improvement and data herein is therefore subject to change. Please check with Cooper Antennas Ltd that this data sheet is at latest issue before initiating contract activity.