



**21-20-175**  
**VHF ATC, AIS**  
**and Maritime FM Antenna**  
**118-165 MHz**

## FEATURES

- **Extremely light weight**
- **Wide VHF Bandwidth**
- **Single hole fixing**
- **Covers VHF ATC, AIS and maritime frequencies**
- **Environmental Design to DO160E including lightning indirect effects (LITS)**
- **Fully sealed and foam filled**
- **Only 10.5" height**
- **Dc grounded**



The 21-20-175 is a unique, wide band VHF antenna comprising a light gauge aluminum tube moulded into an insulator containing proprietary matching circuits producing an operating frequency of 118-165 MHz. This design is installed with a single hole skin cut out and secured from the inside with a 5/8 UNF nut. This antenna is DC grounded for lightning (LITS) and p-static protection.

The antenna is filled with closed cell foam and fully sealed for very light weight and long term reliability. It is intended for helicopters and fixed wing aircraft operating up to 250 knots.

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

# SPECIFICATIONS

## Cooper Antennas Model 21-20-175 VHF ATC, AIS and Maritime FM Antenna

### ELECTRICAL

Frequency Range	118-165 MHz
Impedence	50 Ohms (nominal)
Polarization	Vertical (when vertically mounted)
VSWR	≤ 2.5:1
Power Handling	30 Watts
Radiation Patten	Nominally omni-directional in azimuth
Gain	≥ +1 dBi average over band
Connector	TNC Female

### MECHANICAL

Height	10.5 inches (267 mm) max
Weight	0.23kg (0.5 lbs) max

### FINISH

Antenna	Gloss White Urethane
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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.**