AV-12L

VOR/LOC/GS

FAA TSO: C40c

The AV-12L is a VOR/LOC/GS receive only antenna which uses a highly efficient technique of molding the elements directly into a high-impact thermo-setting bakelite center insulator. The stainless steel elements are ground to close tolerances to provide a low profile. The antenna is designed to operate at both UHF and VHF frequencies, speeds up to 350 mph and altitudes up to 50,000 ft. It has a drag force of 0.92 lb @ 250 mph. A 25-ft. (7.62 meter) transmission line with integral balun transformer is also supplied.

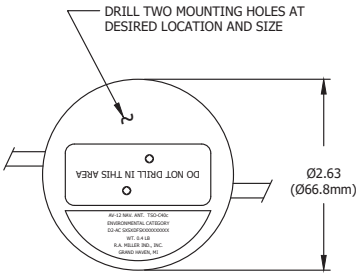


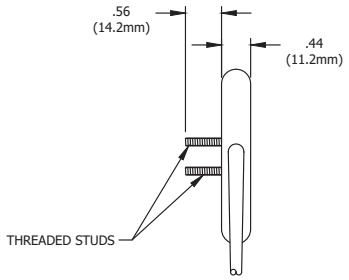
Product Specifications

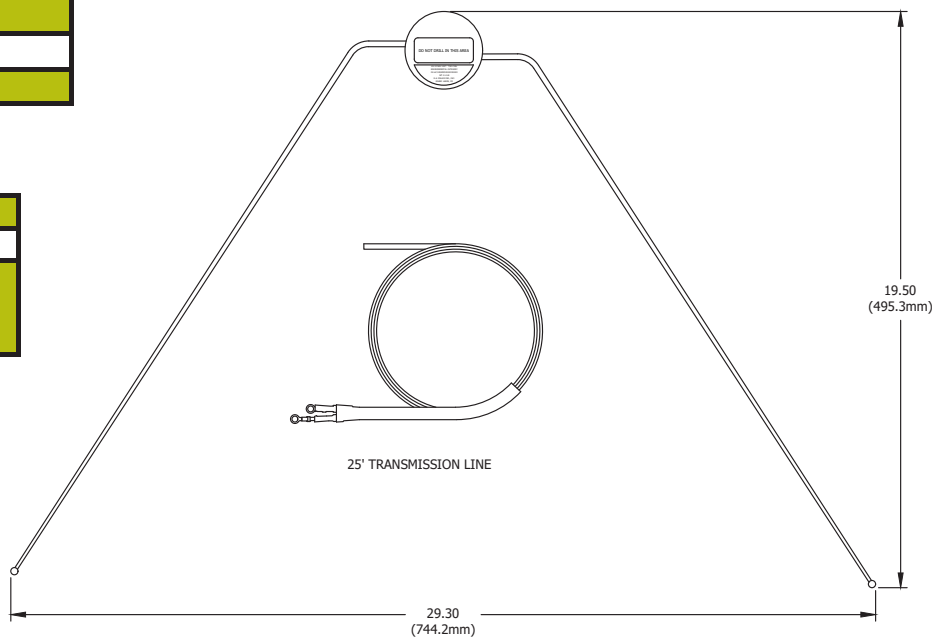
Application	VOR/LOC/GS Receive Only
Frequency	108-118 MHz 328-336 MHz
Impedance	50 Ohms Nominal
VSWR	2.2:1 Maximum
Polarization	Horizontal
Pattern	Omni-Directional
Connector	transmission line assembly with integral balun transformer (included)
Power Handling	N/A Receive Only
FAA TSO	C40c

Mechanical Specifications

Height	19.5"	495.3 mm
Weight	5.5 oz	0.16 kg
Available Part Numbers	AV-12 AV-12L	Antenna Only AV-12 with 25-ft transmission line







AV-12 & AV-12L INSTALLATION INSTRUCTIONS
Navigation Antennas for General Aviation (VOR)

Frequency Range: 108-118 MHz, 328-336 MHz

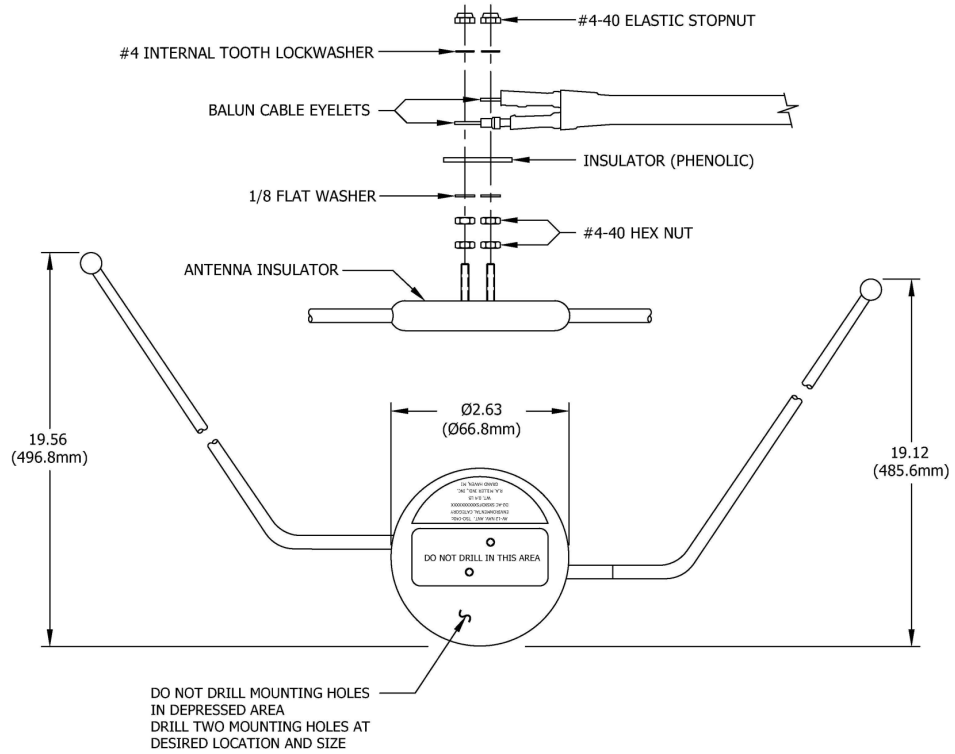
The AV-12L model is supplied with an integral balun cable assembly.
The AV-12 model is not supplied with an integral balun cable assembly.

** An integral balun cable assembly is required for proper performance of the antenna.

The ideal mounting location for a VOR NAV antenna is on top of the vertical stabilizer. This location allows the antenna elements to be in an open area, free from any reflections or shadowing caused by the metal aircraft structure which can cause poor performance.

Installation Instructions

1.) Drill mounting holes through antenna insulator at desired location. Do not drill holes in area indicated.
2.) Mount the antenna using the appropriate hardware.
3.) Attach two #4-40 hex nuts and one #4 flat washer to each stud. Slide the integral balun cable assembly
eyelets and insulator onto the studs and secure using an internal lock washer and an elastic stopnut per stud. See Illustration.
4.) Terminate the other end of the cable with a suitable connector to mate with the navigation receiver.



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