



Antenna Peripherals Guide

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Instructions:

Start and stop frequencies are listed for products with a frequency component, such as antennas, filters, multiplexers, etc. When more than one frequency band is present, the individual bands are denoted by “/” for bands on the same connector, and “&” for bands on separate connectors. For example a frequency listing of “30-174/225-512 & 960-1220MHz” indicates two frequency bands, 30-174 and 225-512 are on one connector and the frequency band of 960-1220 is on a different connector.

Cooper Antennas Ltd.:

Aviatech Corp. is the sole provider of sales and technical support to the North American market for Cooper Antennas products. Detailed product information is available on the Cooper Antennas website, www.cooperantennas.com.

Antenna Gaskets (69-XX-YY)

This material provides gap-filling and sealing between the underside of an antenna and the aircraft skin, while maintaining extremely low contact – resistance between them, as is usually necessary in order to ensure satisfactory RF performance of the antenna.

The material consists of a silicon elastomer sheet, nominally 1/8 inch thick uncompressed, in which are embedded a mass of aluminum wires traversing the thickness of the sheet. The process of manufacture of the gasket material leaves the embedded wires with cleanly cut ends, all exposed at the two faces of the silicon base.

Under quite moderate gasket compression of screwing an antenna to airframe, the wire ends will readily penetrate possible oxidation or other thin non-conductive film on either mating surface, and ensure excellent electrical contact which is spread over the whole of the antenna base area. It has been found that antenna performance can be degraded when contact is restricted to only one part of the base, even though appearing fully satisfactory by D.C measurement only.

The gaskets are supplied as prepared gasket, cut and hole-punched to suit the appropriate antenna type. The gasket itself may be dry-assembled between antenna and airframe, but it is good practice to then add Polysulphide Rubber Compound (PRC) sealant around the edge.

Antenna Mounts, Masts, Tripods

