



Product Quick Reference 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.:

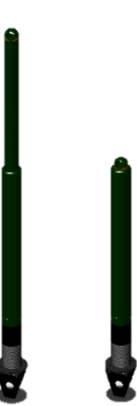
Aviatech Corp. is the sole provider of sales and technical support to the North American market for Cooper Antennas products. Detailed product information is available on the Cooper Antennas website, www.cooperantennas.com.

Ground / Maritime Antennas

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 19-30-02 Dipole (224-318MHz)	 19-50-12CM (30-512MHz)	 19-50-25-1HP (30-88/108-512MHz)	 20-20-01 (30-88MHz)	 20-20-02 (30-88MHz)
 20-20-05 Dipole (118-137MHz)	 20-20-05-1 Dipole (118-137MHz)	 20-20-05-2 Dipole (146-174MHz)	 20-20-08 Dipole (115-162MHz)	 20-20-08-1 Dipole (135-175MHz)
 20-20-09 Dipole (150-180MHz)	 20-20-10 (30-174MHz)	 20-20-11 (30-100MHz)	 20-20-12 (30-88 & 225-450MHz)	 20-20-13 (30-88 & 225-450MHz)

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 20-20-16 (90-200MHz)	 20-20-18 Dipole (30-88MHz)	 20-20-20 (30-88MHz)	 20-20-21 (25-88MHz)	 20-20-22 Telescopic (30-88MHz)
 20-20-30 Dipole (30-110MHz)	 20-20-30CM Dipole (30-110MHz)	 20-20-40 Dipole (136-200MHz)	 20-20-80 Whip (60-88MHz)	 20-20-81 Whip (60-88MHz)
 20-20-100 Dipole (108-152MHz)	 20-20-108 (30-110MHz)	 20-30-04CM Dipole (420-450MHz)	 20-30-08 Rplc'd by 20-30-08-2 (420-512MHz)	 20-30-08-2 (420-512MHz)

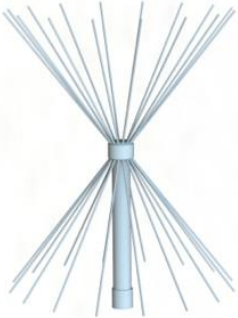
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 20-30-08-3 (405MHz)	 20-30-39 (225-400MHz)	 20-30-40 Dipole (225-450MHz)	 20-30-40-1 Dipole (225-450 & 225-450MHz)	 20-30-40-2 Dipole (225-400MHz)
 20-30-40CM Dipole (225-450MHz)	 20-30-40-3 Dipole (225-450MHz)	 20-30-40-3HS Dipole (225-450MHz)	 20-30-41 Dipole (400-450MHz)	 20-30-45 (225-450MHz)
 20-30-200 Dipole (225-400MHz)	 20-40-01 Handheld Dipole (1.0-1.4GHz)	 20-40-04 Dipole (1250-1850MHz)	 20-40-05 Circularly Polarized (3.18-3.41GHz)	 20-40-06 Circularly Polarized (3.18-3.41GHz)

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 20-40-07 Circularly Polarized (3.18-3.41GHz)	 20-40-47 (500-2500MHz)	 20-40-48 (500-6000MHz)	 20-40-71 Dipole (960-1220MHz)	 20-40-72 Dipole (1030/1090MHz)
 20-40-73 Dipole (1295-1414MHz)	 20-50-01 Dipole (225-450 & 960-1220MHz)	 20-50-04 (30-512MHz)	 20-50-05 (118-137 & 225-400MHz)	 20-50-07 (225-450 & 1250-2000MHz)
 20-50-07-1 (225-450 & 1250-1850MHz)	 20-50-07-2 (225-450 & 1250-2000MHz)	 20-50-08 (156-160/450-470MHz)	 20-50-10 (30-88 & 225-450 & 900-2000MHz)	 20-50-10-1 (30-88 & 225-450 & 950-2000MHz)

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 20-50-10-2 (30-88 & 225-450 & 1250-2000MHz)	 20-50-10-3 (30-88 & 225-450 & 1250-2000MHz)	 20-50-10-4 (110-150 & 225-400 & 1020-1080MHz)	 20-50-10-13 (30-88 & 225-450 & 1325-1850MHz)	 20-50-12 (25-512MHz)
 20-50-12CM (25-512MHz)	 20-50-12M (25-512MHz)	 20-50-12VM (25-512MHz)	 20-50-13 (30-512MHz)	 20-50-14 (30-512MHz)
 20-50-16 (30-512MHz)	 20-50-16VM (30-512MHz)	 20-50-17 (30-512MHz)	 20-50-18 (116-400MHz)	 20-50-20 (225-2000MHz)

 20-50-20 (225-2000MHz)	 20-50-20-2 (225-450 & 1250-2000MHz)	 20-50-22 Dipole (118-137 & 225-400MHz)	 20-50-22-1 Dipole (118-137 & 225-400MHz)	 20-50-22-2 Dipole (118-137 & 225-400MHz)
 20-50-23 (30-512MHz)	 20-50-25 (30-512MHz)	 20-50-25-1 (30-88 & 108-512MHz)	 20-50-25-1HP (30-88 & 108-512MHz)	 20-50-25-2 (30-512MHz)
 20-50-31 (75-350MHz)	 20-50-32 Dipole (30-108 & 115-512MHz)	 20-50-39 (30-88 & 30-88 & 420-450MHz)	 20-50-60 (30-512MHz)	 20-50-61 (30-512MHz)

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 20-50-80 (108-460MHz)	 21-40-10 (1030/1090MHz)	 21-40-20 (500-3000MHz)	 21-40-31 Dipole (4.0-5.0GHz)	 21-40-60 Quad Helix (2.0-2.5GHz)
 21-40-61 Quad Helix (2.9-3.4GHz)	 21-40-80 Stacked Dipole (1.75-1.85GHz)	 21-40-81 Stacked Dipole (2.2-2.6GHz)	 21-40-90 Dipole Array (900-2000MHz)	 21-50-106 (225-2500MHz)
 21-50-400 Receive Only (20-3000MHz)	 21-80-05 Receive Only (280-800MHz)	 21-80-06 Receive Only (800-1800MHz)		

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19-30-60 (240-320MHz)	20-30-01/02/03 (240-400MHz)	21-30-05 (225-400MHz)	21-30-07 (240-400MHz)	20-30-09 (240-400MHz)
				
20-30-10/10M (225-400MHz)	20-30-17 (240-318MHz)	20-30-17R (240-318MHz)	20-30-18 (240-318MHz)	20-30-18A Replaced by 20-30-19 (240-320MHz)
				
20-30-19 (240-320MHz)	20-30-29 (225-400 & 225-400MHz)	20-30-29VM/VM1 (225-400 & 225-400MHz)	20-30-29VM2 (225-400 & 225-400MHz)	20-30-30 (240-400 & 225-400MHz)

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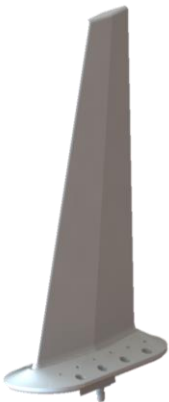
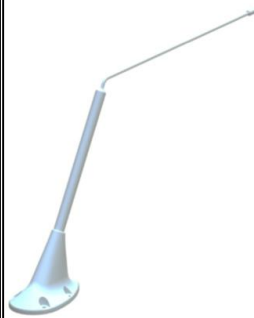
 20-30-60 (240-320MHz)	 20-30-61 (240-320MHz)	 20-30-62 (240-320MHz)	 20-30-65 (240-320MHz)	 20-30-66 (240-385MHz)
 20-30-70 (225-400MHz)	 20-30-91 thru 94 (243-385MHz)	 20-30-95 (243-385MHz)	 21-30-29M (225-400 & 225-400MHz)	 21-30-91M (243-385MHz)
 21-30-91MC07 (243-385MHz)	 21-40-201 For Thuraya (1525-1661MHz)			

Airborne Antennas

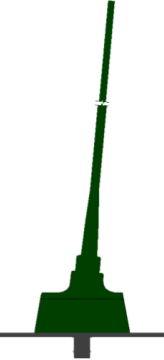
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 20-40-04 Dipole (1250-1850MHz)	 20-40-05 Circularly Polarized (3.18-3.41GHz)	 20-40-47 (500-2500MHz)	 20-40-48 (500-6000MHz)	 21-10-100 (2-30MHz)
 21-10-100(130) (2-30MHz)	 21-10-400 (2-30MHz)	 21-20-02 (74-88MHz)	 21-20-04 (136-175MHz)	 21-20-05 (167.5-192.5MHz)
 21-20-06 (30-156MHz)	 21-20-07 (30-152MHz)	 21-20-08 (30-88MHz)	 21-20-09 (150-180MHz)	 21-20-10 (30-88MHz)

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 21-20-12 (65-125MHz)	 21-20-14 VOR/Localizer (108-118MHz)	 21-20-16 (30-174MHz)	 21-20-18 (161.5-162.5MHz)	 21-20-24 (118-152MHz)
 21-20-25 (116-174MHz)	 21-20-26 (150-174MHz)	 21-20-29 Marker Beacon (75MHz)	 21-20-30 (70-80MHz)	 21-20-35 (30-88MHz)
 21-20-36 (30-88MHz)	 21-20-37 (108-118 & 118-137MHz)	 21-20-38 (30-88MHz)	 21-20-38/03 (135-175MHz)	 21-20-39 (135-175MHz)

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 21-20-40 (121.5 & 243MHz)	 21-20-41 (118-137MHz)	 21-20-47 (30-156MHz)	 21-20-54 (118-152MHz)	 21-20-60 (160-165MHz)
 21-20-62 (108-118/328-336MHz)	 21-20-63 (30-88MHz)	 21-20-70 (165-172MHz)	 21-20-75 (70-80MHz)	 21-20-79 Marker Beacon (75MHz)
 21-20-85 VOR/ILS (108-118/328-336MHz)	 21-20-85-1 VOR/ILS (108-118/328-336MHz)	 21-20-88 (150-180MHz)	 21-20-88-1 (156-174MHz)	 21-20-165 (135-175MHz)

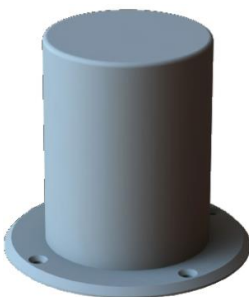
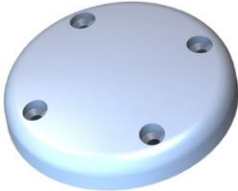
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 21-20-175 (118-165MHz)	 21-20-185 VOR/ILS (108-118/328-336MHz)	 21-20-331 (118-154MHz)	 21-20-415 (30-88MHz)	 21-30-01 (225-410MHz)
 21-30-03 (320-960MHz)	 21-30-16 In Development (225-410MHz)	 21-30-17 (225-512MHz)	 21-30-17HP (225-512MHz)	 21-30-17PM (225-512MHz)
 21-30-18 (225-407MHz)	 21-30-18PM (225-400MHz)	 21-30-19PM (225-407MHz)	 21-30-22 (400-500MHz)	 21-30-23 (225-450MHz)

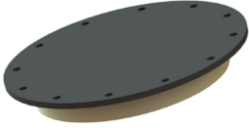
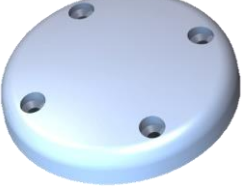
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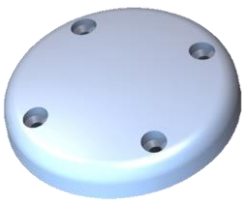
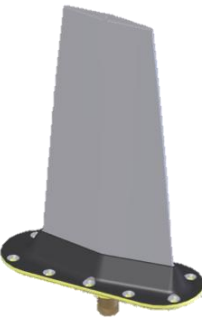
 21-30-43 (225-512MHz)	 21-30-55 (400-500MHz)	 21-30-68 (380-430MHz)	 21-30-69 (420-470MHz)	 21-30-71 (443-450MHz)
 21-30-71-1 (448-452MHz)	 21-30-176 (225-512MHz)	 21-40-01 (14-18GHz)	 21-40-02 (1030 / 1090MHz)	 21-40-03 (2.4-2.5GHz)
 21-40-03-1 (2.3-2.5GHz)	 21-40-04 (1.5-8.0GHz)	 21-40-05 (960-1220MHz)	 21-40-06 (950-1300MHz)	 21-40-07 (1.4-2.55GHz)

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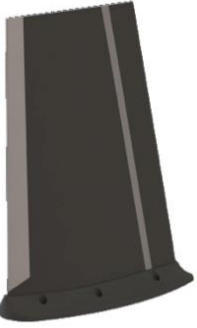
 21-40-08 (4.4-5.6GHz)	 21-40-10 (1030/1090MHz)	 21-40-11 (2.3-2.4GHz)	 21-40-11(2.54) (2.54GHz)	 21-40-12 (960-1220MHz)
 21-40-17 (950-1300MHz)	 21-40-18 (500-2000MHz)	 21-40-19 (900-2600MHz)	 21-40-20 (500-3000MHz)	 21-40-21 (1020-1100MHz)
 21-40-22 In Development Iridium (1610-1630MHz)	 21-40-24 (2.2-2.3GHz)	 21-40-30 (500-3000MHz)	 21-40-31 Dipole (4.0-5.0GHz)	 21-40-41 (960-2000MHz)

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21-40-42 (1030-1090MHz)	21-40-43 (600-1220MHz)	21-40-44 (1280-2500MHz)	21-40-45 (500-2000MHz)	21-40-46 (900-2500MHz)
				
21-40-47 (900-2500MHz)	21-40-49 (700-2700MHz)	21-40-52 (960-1220MHz)	21-40-60 Quad Helix (2.0-2.5GHz)	21-40-61 Quad Helix (2.9-3.4GHz)
				
21-40-80 Stacked Dipole (1.75-1.85GHz)	21-40-81 Stacked Dipole (2.2-2.6GHz)	21-40-90 Dipole Array (900-2000MHz)	21-40-167 Dipole Array (2.3-2.5GHz)	21-41-13 Active L1/L2 GPS

 21-45-02 Active L1 GPS	 21-48-06 (960-1220MHz)	 21-50-01 (225-400 & 960-1220MHz)	 21-50-02 (100-500MHz)	 21-50-03 (20-500MHz)
 21-50-05 (225-2600MHz)	 21-50-05-1 (100-1000MHz)	 21-50-06 (225-400 & 950-1220MHz)	 21-50-06-18 (30-512 & 960-1220MHz)	 21-50-08 (30-407MHz)
 21-50-12 (30-512MHz)	 21-50-16 (225-450/960-1220MHz)	 21-50-16-1 (225-450/960-1220MHz)	 21-50-17 (225-450/960-1850MHz)	 21-50-19 (400-1000MHz)

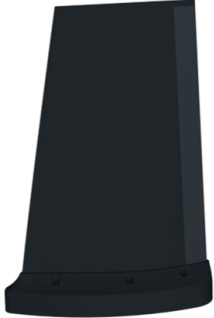
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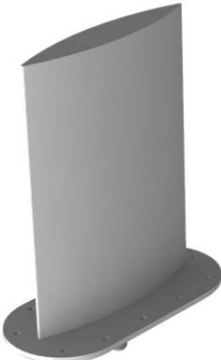
 21-50-20 (30-400MHz)	 21-50-20-1 Supersonic (30-400MHz)	 21-50-21 High Power (100-500MHz)	 21-50-23 (225-400 & 960-1220MHz)	 21-50-26 (30-400MHz)
 21-50-27 (116-152 & 225-512MHz)	 21-50-27LP (16-174 & 225-400MHz)	 21-50-30 (30-512MHz)	 21-50-31 (30-512MHz)	 21-50-32 (30-600MHz)
 21-50-33 (30-512MHz)	 21-50-34 (225-512 & 960-2500MHz)	 21-50-36 (110-512MHz)	 21-50-37 (100-500MHz)	 21-50-39 (121.5/243MHz)

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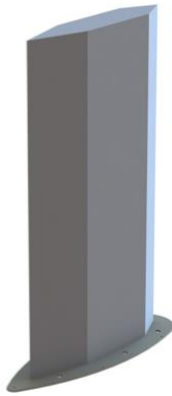
 21-50-40 (121.5/243/406MHz)	 21-50-41 (121.5/243/406MHz)	 21-50-42 (121.5/243/406MHz)	 21-50-43 (108-174/225-400MHz)	 21-50-43-3 (108-174/225-512MHz)
 21-50-44 (30-88/108-174/225-512MHz)	 21-50-45 (136-174/380-870MHz)	 21-50-50 (121.5/243/406MHz & GPS-L1)	 21-50-51 (30-600MHz)	 21-50-56 (30-512 & 960-2500MHz)
 21-50-56S (30-512 & 960-2500MHz)	 21-50-56-1 (30-512 & 960-2500MHz)	 21-50-56-4 (118-137 & 1025-1095MHz)	 21-50-58 (108-512 & 960-2500MHz)	 21-50-58-1 (150-400 & 2000-2500MHz)

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 21-50-59 (225-512 & 960-2500MHz)	 21-50-62 (30-88 & 225-400MHz)	 21-50-62-1 (30-88/225-400MHz)	 21-50-63 (30-174 & 225-400MHz)	 21-50-64 (116-174/225-400MHz)
 21-50-83 (30-174 & 225-512MHz)	 21-50-88 (30-174/225-512 & 960-1220MHz)	 21-50-91/92/93 (30-400MHz)	 21-50-97 (30-512MHz)	 21-50-97-1 (30-520MHz)
 21-50-98 (30-512MHz)	 21-50-99 (100-530MHz)	 21-50-100 In Development (30-2000MHz)	 21-50-100A (30-2000MHz)	 21-50-101 (30-512MHz)

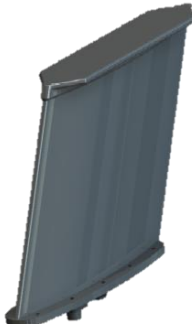
 21-50-105 (30-512 & 1600-2000MHz)	 21-50-106 (225-2500MHz)	 21-50-110 (118-137MHz & GPS-L1/L2)	 21-50-110-1 Active GPS (118-137MHz & GPS-L1/L2)	 21-50-110-2 (118-137MHz & GPS-Galileo)
 21-50-114 (30-512 & 960-1220MHz)	 21-50-115 (30-512MHz)	 21-50-124 (108-156/225-400MHz)	 21-50-132 (116-174 & 960-1220MHz)	 21-50-133 (30-512MHz)
 21-50-134 (66-530MHz)	 21-50-156 (30-512 & 960-2500MHz)	 21-50-156-1 (30-512 & 960-2500MHz)	 21-50-210 Receive Only (20-2500MHz)	 21-50-300 (100-500MHz)

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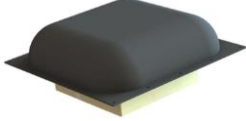
 21-50-310PMG (20-700MHz)	 21-50-331 (30-512 & 512-941MHz)	 21-50-332 (29.5-400 & 400-960MHz)	 21-50-334 (29.5-400 & 400-960MHz)	 21-50-400 Receive Only (20-3000MHz)
 21-80-05 Receive Only (280-800MHz)	 21-80-06 Receive Only (800-1800MHz)	 21-80-07 for AN/ARS-6(V12) (118-410MHz)	 22-50-91 (30-600MHz)	

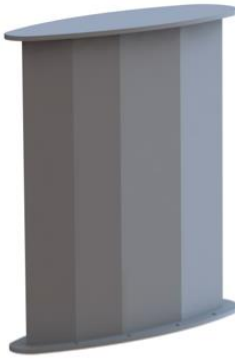
Airborne Tunable Antennas

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 21-120-01 (30-108MHz)	 21-140-136 (30-600MHz)	 21-140-200 (20-512MHz)	 21-150-02 (30-512MHz)	 21-150-06 (30-600MHz)
 21-150-07 (30-600MHz)	 21-150-10 (30-174 & 225-512 & 550-960MHz)	 21-150-10-1 (30-512 & 550- 941MHz)	 21-150-10-2 (30-512 & 960- 1220MHz)	 21-150-15 (30-420MHz)
 21-150-15-1 (30-174 & 225- 420MHz)	 21-150-15-2 (30-512MHz)	 21-150-16 In Development (30-174 & 225- 2000MHz)	 21-150-136 (30-600MHz)	 21-150-175 (30-600 & 960- 1220MHz)

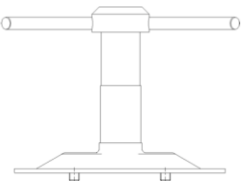
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 21-150-200 (30-512MHz)	 21-150-201 (30-530 & 960-1220MHz)	 21-150-202 (30-600MHz)	 21-150-202A (30-600MHz)	 21-150-437 (30-174MHz)
 21-160-01 (30-512MHz)	 21-160-01A (30-512MHz)	 21-160-02 (30-512MHz)	 21-160-10 (30-600MHz)	 21-190-06 (30-512 & 960-1220MHz)

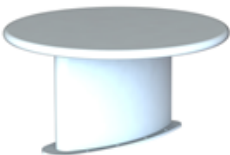
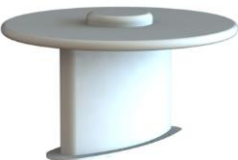
 21-190-12 (30-600 & 960-1220MHz)	 21-290-01 (30-512 & 960-1220MHz)	 21-500-01 (30-512 & 512-945MHz)	 22-150-15 (30-600MHz)	 21-131-Series LCU
 21-151-Series LCU	 21-171-Series LCU			

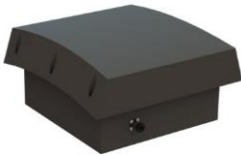
Airborne SATCOM Antennas

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 21-30-29 (225-400 & 225-400MHz)	 21-30-29/1 (225-400 & 225-400MHz)	 21-30-31 (225-400 & 225-400MHz)	 21-30-44 (240-385MHz)	 21-30-70 (225-400MHz)
 21-30-75 In Development (30-512 & 240-400MHz)	 21-30-76 (225-512 & 225-400 MHz)	 21-30-91 (243-385MHz)	 21-30-91XP (240-385MHz)	 21-40-201 For Thuraya (1525-1661MHz)
 21-50-29 (30-512 & 225-400MHz)	 21-50-46 (30-512 & 240-385MHz)	 21-50-48 (30-512 & 240-385MHz)	 21-50-61 (30-512 & 240-385MHz)	 21-50-61-1 (150-400 & 240-385MHz)

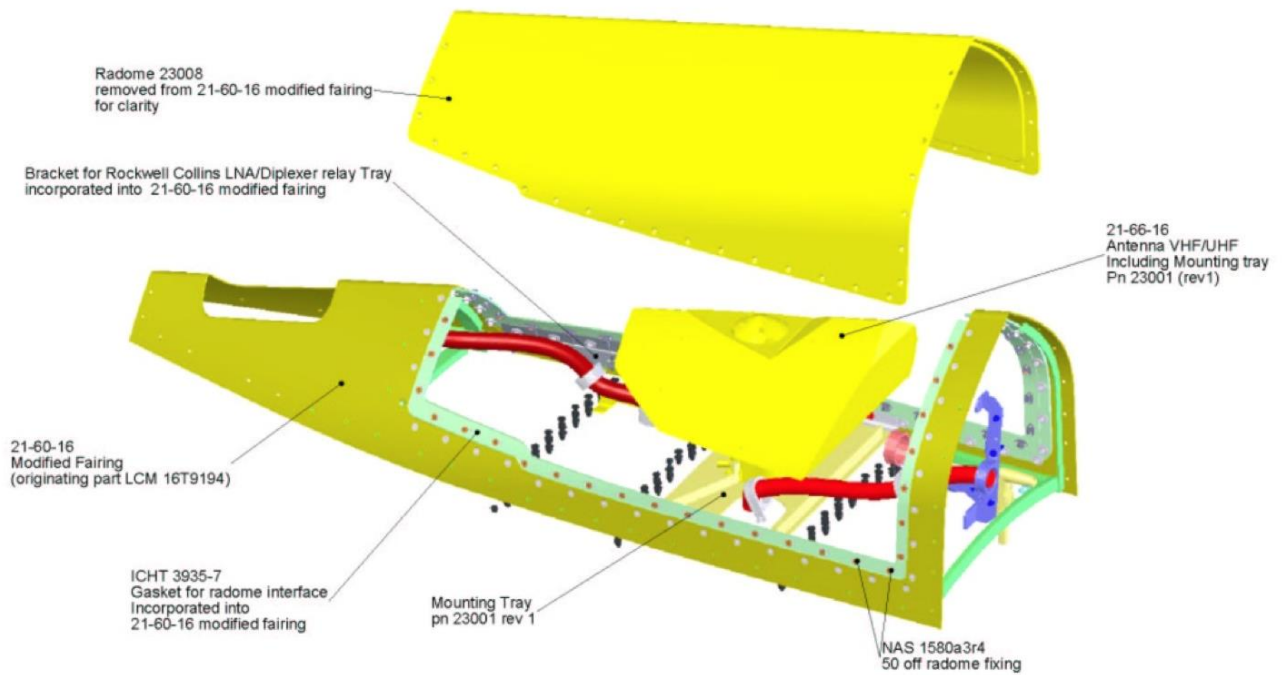
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 21-50-70 (30-512 & 240-400MHz)	 21-50-72 (225-450 & 240-400MHz)	 21-50-75 (30-512 & 240-400MHz)	 21-50-76 (30-512 & 240-400MHz)	 21-50-77 (30-512 & 240-400 & 900-2000MHz)
 21-50-78 (30-512 & 240-400MHz & GPS-L1/L2)	 21-50-79 (225-450 & 240-400MHz & GPS-L1/L2)	 21-50-80 (30-512 & 240-400 & 960-2500MHz)	 21-50-82 (30-512 & 240-400MHz & GPS-L1/L2)	 21-50-129 (30-512 & 240-400MHz & GPS-L1/L2)
 21-50-405 (243-318MHz)	 21-51-46 (30-512 & 240-385MHz & GPS-L1/L2)	 21-52-46 (30-512 & 240-385 & 960-2000MHz)	 21-53-46 Active GPS (240-385 & 500-941MHz & GPS-L1/L2)	 21-54-46 Active GPS (30-512 & 240-385MHz & GPS-L1/L2)

			
21-60-26 (240-385MHz)	21-60-26-1 (240-385MHz)	21-60-30 (243-318MHz)	21-160-26 (240-385MHz)

Custom Antennas

In the event an installation prohibits an off the shelf solution, Cooper Antennas has the capability, knowledge and experience necessary to design, test and fabricate a custom solution. An example of this is the F-16 VHF/UHF/UHF SATCOM antenna and radome shown below. Incorporating a dual element antenna protected by a conformal radome, this solution supports simultaneous V/UHF LOS and UHF SATCOM operation. Installed on 800+ F-16s, this solution has accumulated over 200,000 flight hours with zero failures.



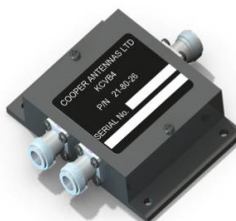
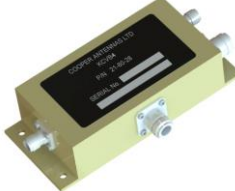
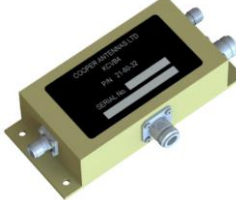
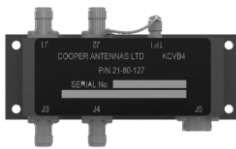
F-16 SATCOM Antenna, Radome, & Modified Fairing

RF Components

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 21-70-55 Low Pass Filter (30-400MHz)	 21-80-01 RF Switch (118-400MHz)	 21-80-02 RF Switch, Amplified (118-400MHz)	 21-80-03 High Pass Filter (960-2500MHz)	 21-80-04 Low Pass Filter (30-512MHz)
 21-80-04N Low Pass Filter (30-512MHz)	 21-80-09 Dual Filter (30-512 & 960-2500MHz)	 21-80-10 Triplexer (30-900 & 960-1220 & 1280-2500MHz)	 21-80-11 Filter (118-137MHz)	 21-80-12 Dual Filter (30-88 & 225-512MHz)
 21-80-15 Diplexer (380-520 & 760-870MHz)	 21-80-16 Diplexer (225-450 & 960-1220MHz)	 21-80-16-1 Diplexer (225-407 & 960-1220MHz)	 21-80-17 Diplexer (30-512 & 960-1850MHz)	 21-80-23 Diplexer (30-88 & 108-512MHz)

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 21-80-24 Diplexer (30-156 & 225-512MHz)	 21-80-25 Diplexer (30-390 & 420-530MHz)	 21-80-26 Power Divider (225-400MHz)	 21-80-27 Diplexer (30-400 & 420-512MHz)	 21-80-28 Triplexer (136-174 & 380-520 & 760-870MHz)
 21-80-29 Diplexer (960-1220 & 1280-2000MHz)	 21-80-31 Diplexer (30-174 & 225-512MHz)	 21-80-32 Triplexer (225-250 & 300-350 & 400-450MHz)	 21-80-33 Diplexer (30-500 & 810-2600MHz)	 21-80-37 Triplexer (30-50 & 136-174 & 380-520MHz)
 21-80-45 Diplexer (30-137 & 160-512MHz)	 21-80-126 Antenna Selector (225-512MHz, 4-Port)	 21-80-127 Antenna Selector (30-512MHz, 4-Port)		

Antenna Peripherals

Antenna Gaskets (69-XX-YY)

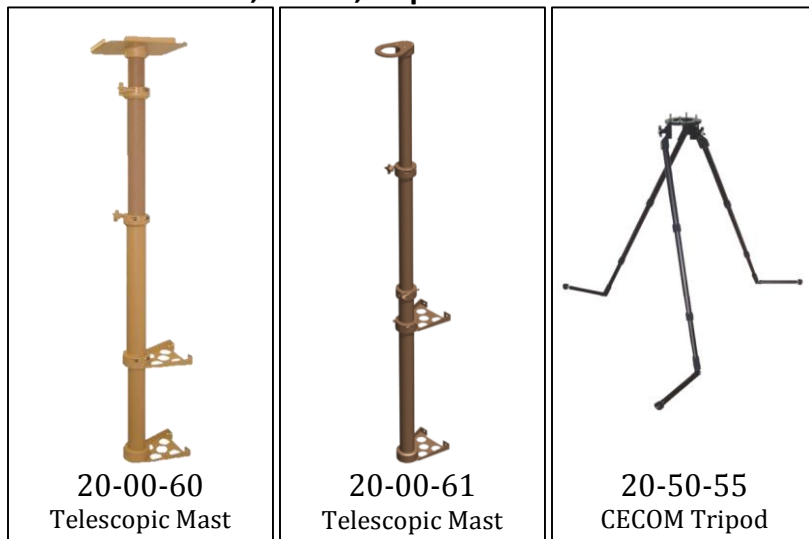
This material provides gap-filling and sealing between the underside of an antenna and the aircraft skin, while maintaining extremely low contact – resistance between them, as is usually necessary in order to ensure satisfactory RF performance of the antenna.

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



Static Dischargers

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21-90-02 Static Discharger	21-90-05 Static Discharger	21-90-06 Static Discharger	21-90-07 Static Discharger	21-90-11 Static Discharger
				
21-90-14 Static Discharger	21-90-16 Static Discharger	21-90-18 Static Discharger	21-90-31 Static Discharger	21-90-33 Static Discharger
				
21-90-34 Static Discharger	21-90-35 Static Discharger	21-90-67 Static Discharger	21-95-29 Retainer (for 21-90-14)	21-95-30 Retainer (for 21-90-16)