



Laird’s ongoing commitment to refinement in mechanical and electrical design has resulted in the most technically advanced mobile load coil antennas on the market. Exclusive features such as stainless-steel whips, housings constructed with ABS material injection molded around a solid brass insert, and gold-plated push pin contacts make Laird the obvious choice for quality and long-lasting value for demanding mobile radio communications.

### FEATURES AND APPLICATIONS

- Easily-removable rod allows the mount to remain water-tight during car washes
- O-ring built into the base creates a weather-tight seal
- ABS material is injection molded directly around the solid brass inserts – virtually indestructible housing that doesn’t leak or disassemble
- Silver soldered joints provide an electrically and mechanically secure connection
- Public safety
- Transportation
- Utility
- Military mobile

ELECTRICAL SPECIFICATIONS	
Operating Frequency (MHz)	430-450
VSWR – Max	<2.1
Nominal Gain, w-gnd. plane/ w/o gnd. plane (dBi)	5 / 3
Max Power - Ambient 25°C (W)	100
Nominal Impedance (Ohms)	50
Polarization	Vertical
Pattern	Omnidirectional
Half-Power Beamwidth (Elevation° x Azimuth°)	60 x 360
Coaxial Cable Length and Type (for vertical polarization)	None
Terminations	NMO
Noise Suppressor (sold separately)	BlackHawk NS1535 1-35-volt, 15 amp

MECHANICAL SPECIFICATIONS	
Diameter	3.66 cm (1.44 in.)
Weight	<0.23 kg (<0.5 lb.)
Equivalent Flat Plate Area (wind resistance)	0.02 sq. meter (0.23 sq. ft.)
Mounting Information (sold separately)	NMO Mountable

### MODEL AND ORDERING INFORMATION

PART NUMBER	DESCRIPTION	HEIGHT	TUNING
B4305CNS	430-450 MHz, 5/8 Wave, Chrome Finish	82.87 cm (32.63 in.)	See Cutting Chart
BB4305CNS	430-450 MHz, 5/8 Wave, Black Finish	88.39 cm (34.80 in.)	See Cutting Chart

### CUTTING CHART

FREQUENCY	WHIP LENGTH
430 MHz	32.39 cm (12.75 in.)
435 MHz	30.96 cm (12.19 in.)
440 MHz	29.53 cm (11.63 in.)
445 MHz	27.94 cm (11.0 in.)
450 MHz	32.39 cm (12.75 in.)

**Americas:** +1.847.839.6925  
 IAS-AmericasSales@lairdtech.com  
**Europe:** +44.1628.858941  
 IAS-EUSales@lairdtech.com  
**Asia:** IAS-AsiaSales@lairdtech.com  
**Middle East and Africa:** +44.1628.858941  
 IAS-MEASales@lairdtech.com  
[www.lairdtech.com](http://www.lairdtech.com)



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