



Spring Mounted Mobile



Choice of cable assemblies

ECO Mobile Antennas (Pat.Pnd.) Spring/Stud Models For 2.4 - 6 GHz

- Integral spring provides strength at speed, provides flex for overhead obstructions
- Groundplane independent designs can be used on any surface.
- Available in models with 5 dBi - 9 dBi gain
- Separate cable assemblies allow choice of length and connector type.

Mobile Mark's new spring mounted ECO Mobile Series are high frequency antennas for 2.4 - 6 GHz bands. There are individual models for the most popular systems: WiFi, WiMAX, 3.5 GHz, Public Safety 4.9 GHz, 5 GHz Broadband and DSRC 5.9 GHz.

The spring maintains vertical position at all speeds, but will deflect if hit by an obstruction. High gain coupled with low loss cable compensates for the losses that occur at higher bands. These models terminate on the bottom with an SMA Female connector. The cable assembly is ordered separately with the appropriate radio connector.

The ECO Spring mount antennas allow easy insertion to a vehicle or bulkhead. A 1 inch hole (25.4mm) is required for mounting. The base of the antenna has a locking collar, the internal portion is tilt-in. This internal portion has teeth that secures the inside as the external locking collar is tightened down. The collar is outfitted with an O-ring, and has flats for securing with a wrench. The cable assembly can typically be inserted from the top side, easing installation.

Antennas use low loss RF-195 cable to improve efficiency. The vertical radomes are black fiberglass with an ABS base assembly. All antennas are weatherproof. These antennas are ground plane independent.

Spring Mount Omni Models

Frequency	Gain	Height	Model
2.4 - 2.5 GHz	5 dBi	13.2 in/34 cm	ECOS5-2400
2.5 - 2.7 GHz	6 dBi	16.3 in/42 cm	ECOS6-2600
3.4 - 3.7 GHz	6 dBi	16.3 in/42 cm	ECOS6-3500
4.8 - 5.0 GHz	6 dBi	12.5 in/32 cm	ECOS6-4900
4.8 - 5.0 GHz	9 dBi	16.3 in/42 cm	ECOS9-4900
5.0 - 6.0 GHz	6 dBi	12.5 in/32 cm	ECOS6-5500
5.0 - 6.0 GHz	9 dBi	16.3 in/42 cm	ECOS9-5500

Mating Cable Assemblies

Length	End Connector	Model
15 ft (4.6 m)	SMA Male	CA180/195-CS
20 ft (6.1m)	SMA Male	CA240/195-CS
15 ft (4.6 m)	N Male	CA180/195-XS
20 ft (6.1m)	N Male	CA240/195-XS
15 ft (4.6 m)	Rev Pol SMA plug	CA180/195-JS
20 ft (6.1m)	Rev Pol SMA plug	CA240/195-JS

Cable assemblies are pre-terminated with right angle SMA for connection to the antenna, and the desired end connector indicated above. Cables are low loss Belden RF-195 or equivalent.

Specifications

Frequency:	See above	Spring:	Heavy duty Stainless Steel, 3/4" diameter (19 mm)
Gain:	See above	Termination:	SMA Female on bottom
Bandwidth:	See above @2:1 SWR	Weight:	Under 1 lb (0.45 kG) all models, not including cable assembly
Impedance:	50 Ohm nominal	Mounting:	Top mount assembly, "tilt-in" with internal teeth & locking ring
Maximum Power:	10 Watts	Cable Assemblies:	Belden RF-195, with Right angle SMA for the antenna
Operating Temp:	-40° to +85° C		
Radome:	Fiberglass (black)		
Base/Mount:	Brass chrome plated		
Mounting Depth:	1/4" thick surface (6.4 mm)		
Base Dimension:	1.5" Diameter (38 mm)		