



Surface Mount, Spring Mount Public Safety 4.9 GHz

- Integral spring provides strength at speed, provides flex for overhead obstructions
- Ground plane independent designs can be used on any surface.
- Available in models with 6 dBi or 9 dBi gain
- Separate cable assemblies allow choice of cable length and connector type.

Mobile Mark offers a variety of spring mounted ECO Mobile antennas for high frequency antennas at 2.4 - 6 GHz bands. The models for Public Safety 4.9 GHz are available at 6 dBi or 9 dBi gain.

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. Custom lengths can be ordered, 15 ft and 20 ft are the most common lengths. Antennas use low loss RF-195 cable to improve efficiency.

The vertical radomes are black or white fiberglass with a brass chrome plated base assembly. The 3/4" diameter spring is made from stainless steel. All antennas are weather proof. These antennas are ground plane independent.

Models

Spring Mount Omni Models

Model	Gain	Height
ECOS6-4900-BLK	6 dBi	12.5 in/32 cm
ECOS9-4900-BLK	9 dBi	16.3 in/42 cm

Add "-TM" for Vehicle Trunk Lid Mount Option

Color options available for above models

WHT-White or BLK-Black

Mating Cable Assemblies

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

Cable assemblies are pre-terminated with right angle SMA for connection to the antenna. Cables are low loss Belden RF-195 or equivalent.

Specifications

Frequency:	4.8-5.0 GHz
Gain:	6 or 9 dBi
VSWR	2:1 over band
Impedance:	50 Ohm nominal
Maximum Power:	10 Watts
Operating Temp:	-40° to +85° C
Radome:	Black or white Fiberglass
Base/Mount:	Brass chrome plated
Mounting Depth:	1/4" thick surface (6.4 mm)
Base Dimension:	1.5" Diameter (38 mm)

Spring:	Heavy duty Stainless Steel, 3/4" diameter (19 mm)
Termination:	SMA Jack
Weight:	Under 1 lb (0.45 Kg) all models, not including cable assembly
Mounting:	Top mount assembly, "tilt-in" with internal teeth & locking ring
Cable Assemblies:	RF-195, with Right Angle SMA Plug (male) to attach to the antenna