



Spring Mount
Mobile



CA Series
Cable Assemblies



Trunk Lid
Mount

Mobile Mark's spring mounted ECO Mobile Series antennas cover popular systems: WiFi 2.4 or 5 GHz, Public Safety 4.9 GHz, 5 GHz Broadband and DSRC 5.9 GHz.

These ECOS antennas are ground plane independent and can be used on any surface.

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 ECO Spring mount antenna allows easy insertion to a vehicle or bulkhead. A 1 inch hole (2.54 cm) is required for mounting. The base of the antenna has a locking collar, the internal portion is tilt-in. Metal teeth on the internal portion secure 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 heavy duty spring maintains the antenna's vertical position at all speeds, but will deflect if hit by an obstruction.

The cable assembly is ordered separately with the appropriate radio connector. Cable Assemblies use low loss RF-195 cable to improve efficiency. All antennas are weather proof.

Surface Mount Spring Mount WiFi, 2.4 & 5 GHz

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

Models

Spring Mount Omni Models

| Model | Frequency | Gain |
|----------------|---------------|-------|
| ECOS5-2400-BLK | 2.4 - 2.5 GHz | 5 dBi |
| ECOS8-2400-BLK | 2.4 - 2.5 GHz | 8 dBi |
| ECOS6-5500-BLK | 5.0 - 6.0 GHz | 6 dBi |
| ECOS9-5500-BLK | 5.0 - 6.0 GHz | 9 dBi |

Add "-TM" for 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, and the desired end connector indicated above. Cables are low loss Belden RF-195 or equivalent.

Specifications

| | |
|-----------------|--|
| Frequency: | See above |
| Gain: | See above |
| VSWR | 2:1 over band |
| Impedance: | 50 Ohm nominal |
| Maximum Power: | 10 Watts |
| 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) |
| Spring: | Heavy duty Stainless Steel, 3/4" diameter (19 mm) |
| Termination: | SMA Female on bottom |

| | |
|-------------------|---|
| Weight: | Under 1 lb (0.45 kg) all models, not including cable assembly |
| Height: | |
| 5 dBi | 16.3 in/41 cm |
| 6 dBi | 12.5 in/30 cm |
| 6 dBi | 24.8 in/63 cm |
| 9 dBi | 16.3 in/41 cm |
| Mounting: | Top mount assembly, "tilt-in" with internal teeth & locking ring |
| Cable Assemblies: | RF-195, with Right angle SMA for the antenna |