

SC246-SFXSNF(D00-F1700) Aurora™ Collinear omni, 6 dBd, 8 MHz B.W., 166-174 MHz

- Patent-pending Aurora™ design for highly consistent RF performance
- Rugged design and UV protected radome for harsh environment
- High gain, omni-directional, 8 MHz bandwidth with VSWR of 1.5:1
- 0, 2, 4, or 6 degrees of electrical down available

The Aurora™ SC family is Sinclair's next-generation of public safety collinear antennas. The patent-pending design utilizes cutting-edge yet field-proven technology to deliver an unparalleled combination of highly stable RF pattern, higher gain, and wider bandwidth.

Specifically, the SC246 series collinear omni-directional antenna offers 6 dBd gain in 8 MHz band splits covering the 136-225 MHz VHF frequency range. This antenna is designed for a high degree of operational reliability in extreme wind, ice, and corrosive conditions. Its relatively low mass and small wind-loading profile make it easy to install. The antenna is fully DC grounded for protection against lightning and static conditions.

Frequency must be specified at time of order and complete part number will be provided accordingly.



www.sinctech.com

Region	United States	Europe, Middle East and Africa	Caribbean and Latin America	Canada and rest of the world
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Electrical Specifications

Frequency Range	MHz	166 to 174
Bandwidth	MHz	8
Connector		N-Female *1
Gain (nominal)	dBd (dBi)	6 (8.1)
Input VSWR (max)		1.5:1
Polarization		vertical
Impedance	Ω	50
Pattern		Omni-directional
Vertical beamwidth (typ)	degrees	17
Average Input Power (max)	W	500
Lightning protection		DC ground
Electrical tilt (available)		0, 2, 4 or 6 degrees.

Notes

*1 : Flange mount.
*2 : Qty: 2

Mechanical Specifications

Width	in (mm)	2.88 (73)
Depth	in (mm)	2.88 (73)
Length/ Height	in (mm)	220 (5588)
Base pipe diameter	in (mm)	2.88 (73)
Radome material		fiberglass (UV protected)
Weight	lbs (kg)	40 (18.16)
Weight iced (1/2" ice)	lbs (kg)	90 (40.86)
Mounting Hardware (Optional)		Clamp005X *2
Mounting configurations		upright
Shipping dimensions	in (mm)	240x6x6 (6096x152x152)

Ordering Information

Specify center of frequency when ordering.
Length of antenna varies with frequency.
Clamps must be purchased separately.

Environmental Specifications

Temperature range	°F (°C)	-40 to +140 (-40 to +60)
Rated wind velocity (no ice)	mph (km/h)	150 (242)
Rated wind velocity (1/2" radial ice)	mph (km/h)	120 (193)

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