

SC246-SFXLDF(D00-F2215) Collinear omni, 6 dBd, 8 MHz 217.5-225.5 MHz

- Patent-pending Aurora™ design for stable pattern
- Rugged design and UV protected radome for harsh environment
- High gain, omni-directional, 8 MHz bandwidth with max VSWR of 1.5:1

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-SFXLDF(D00-F2215) collinear omni-directional antenna offers 6 dBd gain in an 8 MHz band covering the 217.5-225.5 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.



Antenna may not appear exactly as shown

Region	United States	Europe, Middle East, and Africa	Canada, Caribbean, and Latin America	Asia-Pacific
<b>Telephone</b>	1 800 263 3275	+1 905 727 0165 ext 232	Canada: 1 905 726 7676 International: +1 905 726 7676	+1 905 727 0165 ext 287
<b>E-mail</b>	salesusa@sinctech.com	salesemea@sinctech.com	salescan@sinctech.com	salesasia@sinctech.com

Product Specification Sheet  
EPR  
Customer Tech Manual 006802

SC246-SFXLDF(D00-F2215)

Issue: 0

Dated: 07-12-23  
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#### Electrical Specifications

Frequency Range	MHz	217.5 to 225.5
Bandwidth	MHz	8
Connector		7/16 DIN-Female *1
Gain (nominal)	dBd (dBi)	6 (8.1)
Input VSWR (max)		1.5:1
Polarization		vertical
Impedance	Ω	50
Pattern		Omni-directional
3dB beamwidth, vertical	degrees	17
Average Input Power (max)	W	500
Passive intermod. (2x20W, 3rd ord.)	dBc	-150
Grounding		All metal parts DC-grounded
Electrical tilt (available)		0 degrees

#### Notes

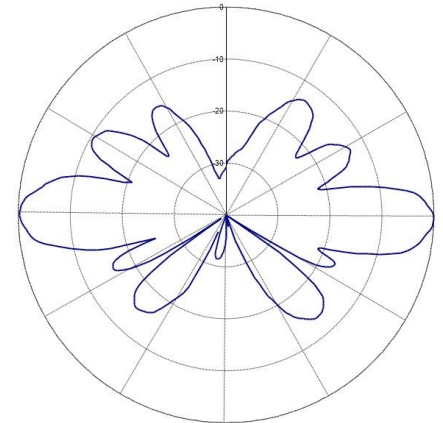
- \*1 : Flange mount
- \*2 : Qty 2

#### Mechanical Specifications

Width	in (mm)	2.88 (73)
Depth	in (mm)	2.88 (73)
Length/ Height	in (mm)	168.19 (4272)
Base pipe diameter	in (mm)	2.88 (73)
Radome material		fiberglass
Mounting Hardware (Optional)		Clamp005, or Clamp005X *2
Mounting configurations		upright

#### Environmental Specifications

Temperature range	°F (°C)	-40 to +140 (-40 to +60)
Wind Loading Area (Flat Plate Equivalent)	ft² (m²)	1.9 (0.18)
Wind Loading Area (1/2" ice)	ft² (m²)	2.7 (0.25)
Rated wind velocity (no ice)	mph (km/h)	205 (330)
Rated wind velocity (1/2" radial ice)	mph (km/h)	160 (258)
Lateral Thrust (100 mph No Ice)	lbs (N)	73 (324.7)
Bending moment (100 mph No Ice)	ft-lbs (Nm)	390 (526.5)
Tip deflection (100 mph No Ice)	degrees	1.9



Vertical, 0° downtilt shown

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