

SC343-HF3SNF(DXX) Aurora™ Collinear omni antenna, 3 dBd, HD, 450-470 MHz

- Medium gain, omni-directional pattern
- Patent-pending Aurora™ design for highly consistent RF performance
- Heavy duty construction and UV protected radome for harsh environment
- 0, 3, or 6 degrees of electrical downtilt 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, shorter length and wider bandwidth.

Specifically, the SC343-H series collinear omni-directional antenna offers 3 dBd gain in 20 MHz band splits covering the 380-512 MHz UHF 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.

When ordering, please refer to the chart below for the model number. Downtilt configurations are subject to various list price. Please contact your Sinclair Sales Representative or Customer Service Representative for more information.

| Model Number | Downtilt |
|-------------------|----------|
| SC343-HF3SNF(D00) | 0° |
| SC343-HF3SNF(D03) | 3° |
| SC343-HF3SNF(D06) | 6° |



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| Region | United States | Europe, Middle East, and Africa | Canada, Caribbean, and Latin America | Asia-Pacific |
|-----------|-----------------------|---------------------------------|--|------------------------|
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Electrical Specifications

| | | | |
|-----------------------------|-----------|--------------------|----|
| Frequency Range | MHz | 450 to 470 | |
| Bandwidth | MHz | 20 | |
| Connector | | N-Female | *1 |
| Gain (nominal) | dBd (dBi) | 3 (5.1) | |
| Input VSWR (max) | | 1.5:1 | |
| Polarization | | vertical | |
| Impedance | Ω | 50 | |
| Pattern | | Omni- directional | |
| Vertical beamwidth (typ) | degrees | 28 | |
| Average Input Power (max) | W | 250 | |
| Lightning protection | | DC ground | |
| Electrical tilt (available) | | 0, 3, or 6 degrees | |

Notes

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

Mechanical Specifications

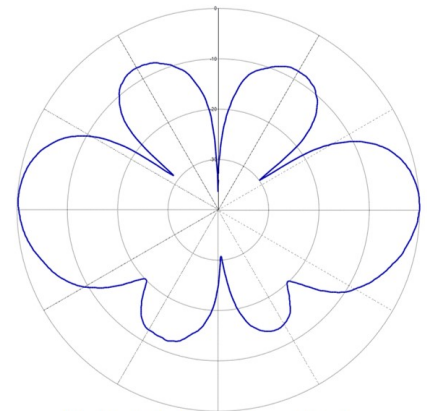
| | | | |
|------------------------------|----------|---------------------------|----|
| Width | in (mm) | 2 (51) | |
| Depth | in (mm) | 2 (51) | |
| Length/ Height | in (mm) | 46.5 (1181) | |
| Base pipe diameter | in (mm) | 2 (51) | |
| Radome material | | fiberglass (UV protected) | |
| Weight | lbs (kg) | 5 (2.27) | |
| Weight iced (1/2" ice) | lbs (kg) | 15 (6.81) | |
| Mounting Hardware (Optional) | | Clamp130, or Clamp090M | *2 |
| Mounting configurations | | upright | |
| Estimated Shipping Weight | lbs (kg) | 12 (5.45) | |
| Shipping dimensions | in (mm) | 55x4.5x4.5 (1397x114x114) | |
| Radome Colour | | Blue | |

Ordering Information

Clamps must be purchased separately.
When ordering, please refer to the chart on the previous page for specific model numbers and downtilt configurations.

Environmental Specifications

| | | |
|---|-----------------------------------|--------------------------|
| Temperature range | °F (°C) | -40 to +140 (-40 to +60) |
| Wind Loading Area (Flat Plate Equivalent) | ft ² (m ²) | 0.4 (0.04) |
| Wind Loading Area (1/2" ice) | ft ² (m ²) | 0.6 (0.06) |
| Rated wind velocity (no ice) | mph (km/h) | 230 (370) |
| Rated wind velocity (1/2" radial ice) | mph (km/h) | 190 (306) |
| Lateral Thrust (100 mph No Ice) | lbs (N) | 14 (62.3) |
| Bending moment (100 mph No Ice) | ft-lbs (Nm) | 12 (16.2) |
| Tip deflection (100 mph No Ice) | degrees | 0.1 |



Vertical, 0 degree downtilt shown

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