

**SY426-SF4SNF(DBK)** Yagi directional, 10 dBd, Powder coated, 890-960 MHz

- 7-element 10 dBd gain yagi antenna
- Black power coating finish for long life
- Rugged build for durability and reliability
- Outstanding front-to-back ratio

Sinclair's SY426 yagi antenna is engineered to meet the need for a high gain, broadband, top quality directional antenna in 800/900 MHz band. The antenna provides 10 dBd gain with consistent performance across the band. It exhibits an outstanding front-to-back ratio to help mitigate any potential interferences with other systems. The antenna is manufactured with high-grade aluminum to withstand strong wind, heavy ice, and other harsh conditions. All elements of this antenna are at DC ground potential for lightning protection.

The SY426 is also available in stacked configuration for higher gain (with the optional phasing harness from Sinclair).

Designed for high performance, versatility and ease of installation, the SY426 is well suited for a wide range of applications.



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Region	United States	Europe, Middle East, and Africa	Canada, Caribbean, and Latin America	Asia-Pacific
<b>Telephone</b>	1 800 263 3275	+44 (0) 1487 84 28 19	Canada: 1 800 263 3275 International: +1 905 726 7676	+1 905 727 0165
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### Electrical Specifications

Frequency Range	MHz	890 to 960	
Bandwidth	MHz	70	
Connector		N-Female	*1
Gain (nominal)	dBd (dBi)	10 (12.1)	*2
Input VSWR (max)		1.5:1	
Polarization		vertical or horizontal	
Impedance	Ω	50	
Pattern		Directional	
Horizontal beamwidth (typ)	degrees	52	*3
Vertical beamwidth (typ)	degrees	45	*4
Average Input Power (max)	W	150	*5
Front-to-back ratio (Typ)	dB	20	
Lightning protection		DC ground	

### Notes

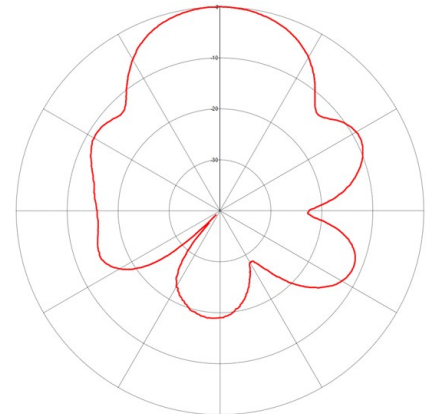
- \*1 : Bulkhead
- \*2 : ±1 dB
- \*3 : ±10%
- \*4 : ±10%
- \*5 : at 50°C
- \*6 : For mast of 1.25 to 2.4 inch (32-61 mm) OD

### Mechanical Specifications

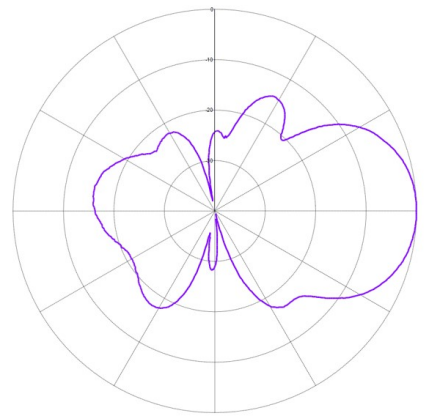
Width	in (mm)	6.32 (161)	
Depth	in (mm)	3.6 (91)	
Length/ Height	in (mm)	24 (610)	
Base pipe diameter	in (mm)	0.87 (22)	
Radiating element material		aluminum	
Reflector material		aluminum	
Finish		Powder coating (black)	
Weight	lbs (kg)	1.06 (0.48)	
Weight iced (1/2" ice)	lbs (kg)	4.7 (2.13)	
Mounting Hardware (Included)		Yes	*6

### Environmental Specifications

Temperature range	°F (°C)	-40 to +140 (-40 to +60)
Wind Loading Area (Flat Plate Equivalent)	ft² (m²)	0.2 (0.02)
Wind Loading Area (1/2" ice)	ft² (m²)	0.55 (0.05)
Survival wind velocity (no ice)	mph (km/h)	210 (338)
Survival wind velocity (1/2" radial ice)	mph (km/h)	120 (193)
Lateral Thrust (100 mph No Ice)	lbs (N)	9.4 (41.8)
Bending moment (100 mph No Ice)	ft-lbs (Nm)	6.3 (8.5)



Horizontal



Vertical

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