

## SFA200-100 DIAMOND FLY-AWAY ANTENNA

- Robust
- High Performance
- Powerfull
- 100 cm Offset Reflector
- Efficient
- Easy to mount
- Designed for Ku, Ka, DBS, C, X band uplink
- Compliant with IATA Standart



The 1.0 Meter Non-Motorized Flyaway Antenna from SVS is highly portable, compact, lightweight, and can be assembled by one person in less than 5 minutes. The antenna features a 4 piece segmented glass fiber reinforced reflector with compact pedestal and is designed to be value priced while providing exceptional performance in a lightweight package. The elevation-over-azimuth pedestal provides excellent stiffness characteristics and convenience for the user when pointing and peaking on a satellite. The antenna packs in 2 ruggedized shipping cases.



### ANTENNA OPTIONS

- W/G CROSSOVER KIT UNTIL FEED ARM
- ADDITIONAL OUTDOOR CARRYING CASE FOR OTHER VSAT/BROADCAST EQUIPMENTS
- 3 PORT FEED
- 7/24 REMOTE SUPPORT SERVICE OPTION
- ON SITE PREVENTATIVE MAINTENANCE SERVICE OPTION
- ON SITE COMMISSIONING SERVICE OPTION

# SFA200-100 DIAMOND FLY-AWAY ANTENNA

RF SPECIFICATIONS		Transmit	Recive
Frequency Band		13.75-14.5 Ghz	10.95-12.75 Ghz
Polarization		Linear Orthogonal	Linear Orthogonal
Antenna Gain		42 dBi	40.5 dBi
Antenna Noise Temperature		-	48°K el; 10°
Cross Polarization		<-35 dB within 0.3° boresight	<-35 dB on boresight
		<-30 dB within copolar pattern relative to co-polar peak	
( $\theta=90^\circ$ )		$2.1^\circ < \theta < 15^\circ @ 19-25 \log \theta$	$2.1^\circ < \theta < 35^\circ @ 29-25 \log \theta$
Off Axis Gain		$15.0^\circ < \theta < 130.0^\circ @ -10 \text{ dBi}$	$35.0^\circ < \theta < 130.0^\circ @ -10 \log \theta$
( $\theta=0^\circ$ )		$130.0^\circ < \theta < 180.0^\circ @ 0 \text{ dBi}$	$130.0^\circ < \theta < 180.0^\circ @ +5 \log \theta$
VSWR		1:3:1 Max	-
Feed Interface		WR-75	WR-75
Isolation		>40 dB	>40 dB, excluding Tx reject filter
Filter Rejection		Transmit Reject >70 dB	
MECHANICAL SPECIFICATIONS			
Antenna Geometry		Offset Front Feed	
Antenna Reflector Effective Aperture		Diagonal: 1.2 m, Across Flat : 1.0 m	
Ports		2 (optionally 3)	
Elevation Range		0°-90°	
Azimuth Range		±180	
Polarization Range		±92°	
Sizes		Hard Case: 72x62x25 Soft Case: 58x57x23	
Weight		32 kg including carrying case	
Reflector Material		Carbon Fiber, Four-piece segmented "Diamond" shaped reflector, 1.0 m across-flats. The reflector is manufactured in carbonfiber with a honeycomb centre. All external surfaces primed and finished in two-pack polyurethane white paint	
ENVIRONMENTAL SPECIFICATION		Operational	Survival
Wind Load		40km/h	60 km/h(stowed)
Ambient Temperature		-30°C to.+ 60°C	-40°C to 70°C
Humidity		%0 - %100	%0 - %100