

PRODUCT
SPECIFICATIONS

Photos
Available in white or military
colors



1.2 Meter Fly Away Receive Transmit Antenna System Model MIL-12FA

The 1.2 meter fly away stores easily into its own mount/case and is capable of one man transport.



ASC Signal Corporation introduces the 1.2 meter fly away receive transmit antenna. Engineered for satellite news gathering, this antenna is well suited for military applications requiring rapid deployment and assembly without tools.

The reflector is constructed of multi segmented, light weight carbon fiber panels. This construction ensures the reflector conforms to the parabolic shape without deformation after hundreds of assemblies. An offset design with a prime focus feed creates the smallest packed dimensions of any comparable antenna on the market.

Wide spreading multi position legs provide high stability on any terrain. In addition, vernier adjusters provide fine tuning of elevation and polarization to assist with inclined orbital tracking.

The 1.2 meter fly away stores easily into its own mount/case and is capable of one man transport. No additional flight cases are required. The weight is less than the checked-in single package luggage limit for commercial airlines.

- Compact dimensions
- Constructed of light weight durable carbon fiber
- Exceeds Intelsat and Eutelsat recommended specifications
- Stores easily in mount/case

SPECIFICATIONS

MODEL MIL-12FA 1.2 Meter Fly Away Receive Transmit Antenna System

Electrical Performance

Bands	Transmit	MIL-12FA-140	13.75 to 14.50 GHz
		MIL-12FA-180	17.30 to 18.40 GHz
		FMIL-12FA-300	27.50 to 31.00 GHz
	Receive	MIL-12FA-140	10.70 to 12.75 GHz
		MIL-12FA-300	19.20 to 21.20 GHz
3 dB Beamwidth			<1.8° @ 13.75 GHz
Transmit Power			1 kW Maximum
Off Axis Transmit Gain			< 29-25 Log Ø dBi
VSWR			1.3:1
Gain	Transmit	MIL-12FA-140	43.0 dBi Mid Band
		MIL-12FA-180	45.0 dBi Mid Band
		MIL-12FA-300	49.5 dBi Mid Band
	Receive	MIL-12FA-140	41.0 dBi Mid Band
		MIL-12FA-300	46.5 dBi Mid Band
Noise Temperature	Receive	MIL-12FA-140	.55° K/30° Elevation
		MIL-12FA-300	.50° K/30° Elevation

Mechanical Performance

Antenna Type	Elliptical with Center Hub and Eight Petals
Reflector Dimensions	1.2 m
Polarization	Linear, Orthogonal Transmit and Receive
Elevation Adjustment	0° to 90°
Azimuth Adjustment	±180° Continuous
Polarization Adjustment	±95° Continuous
Cross Polarization	-35 dB within the -1 dB Co-Polar Contour
Reflector Material	Carbon Fiber
Port to Port Isolation	40 dB
Antenna Optics	Offset Feed
Finish (standard)	White (Other Colors Available)
Weight	31 kg
Packed Dimensions	0.60 m x 0.60 m x 0.38 m

Environmental Performance

Survival Winds	100 km/h
Temperature. Operational	-40°C to 80°
Humidity	100 %
Altitude	4,500 m



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