

# Type 845: 84cm Elliptical Receive-Only Antenna System



## PRODUCT SPECIFICATIONS

Detail Photos  
(on right from top to bottom)  
Pre-assembled Az/EI Mount  
Fine-elevation adjustment  
with stamped degree scale  
Ku feed assembly with LNB  
cover



## 84 cm Elliptical Receive-Only Antenna System TYPE 845

The reflector is thermoset-molded for strength and surface accuracy.

The Skyware Global 84 cm Type 845 Elliptical Antenna is a rugged commercial grade product suitable for the most demanding applications.

The pole mount is constructed from heavy-gauge steel to provide a rigid support to the reflector. A specially formulated powder paint process offers excellent protection from weather related corrosion.

The reflector is thermoset-molded for strength and surface accuracy. Molded into the rear of the reflector is a network of support ribs which not only strengthens the antenna, but also helps to sustain its critical parabolic shape.

- All materials comply with EU directive No. 2002/95/EC (RoHS).
- One-piece thermoset-molded offset reflector.
- Factory pre-assembled Az/EI mount.
- Plated hardware for maximum corrosion resistance.



• PRODUCT SPECIFICATIONS

84 cm Elliptical Receive Only Antenna

RF Performance

Effective Aperture .....	84 cm Elliptical (33 in)
Dimensions of Reflector .....	102 cm x 77 cm
Operating Frequency .....	10.95 - 12.75 GHz
Polarization .....	Linear
Gain @ 11.95 GHz .....	39 dBi
3 dB Beamwidth .....	1.8°
Antenna Noise Temperature @ 30° El .....	25° K
VSWR .....	1.3:1
Cross-Polarization Discrimination (Linear) ...	30 dB on Axis
Feed Interface .....	WR75 Flat Flange

(All specifications typical)

Mechanical Performance

Reflector Material .....	Glass Fiber Reinforced Polyester
Antenna Optics .....	One-Piece Offset Feed Prime Focus
Mount Type .....	Three Axis, Skew over Elevation over Azimuth
Polarization (Skew) Adjustment Range .....	±90° Continuous
Elevation Adjustment Range .....	.5° - 90° Continuous Fine Adjustment
Azimuth Adjustment Range .....	360° Continuous
Mast Pipe Interface .....	.60 mm (2.38 in)
Wind Loading .....	
Operational .....	.80 km/h (50 mph)
Survival .....	200 km/h (125 mph)
Temperature .....	-50°C to 80°C
Humidity .....	0 to 100% (Condensing)
Atmosphere .....	Standard Hardware Meets 500 Hour Salt Spray Test Requirements (ASTM B-117)
Solar Radiation .....	360 BTU/h/ft <sup>2</sup>
Shock and Vibration .....	As Encountered During Shipping and Handling



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