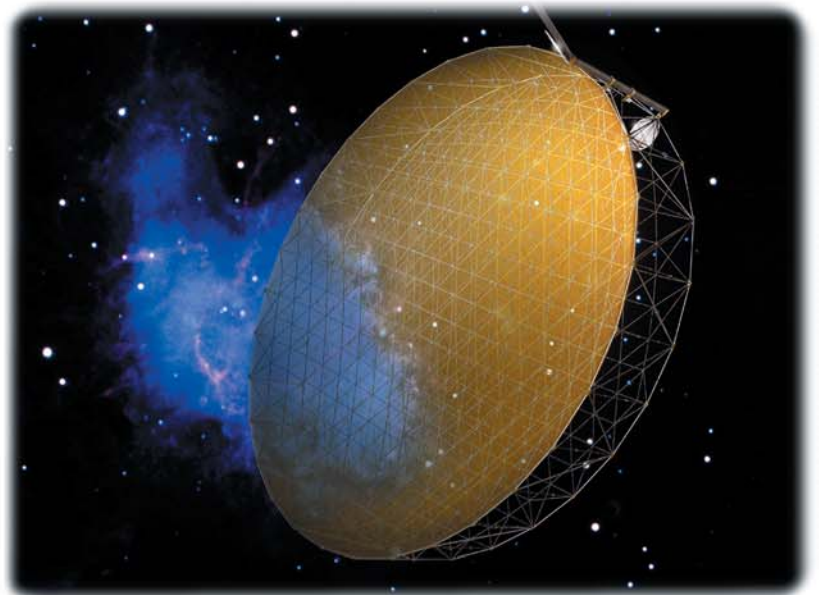


ASTROMESH™ REFLECTOR



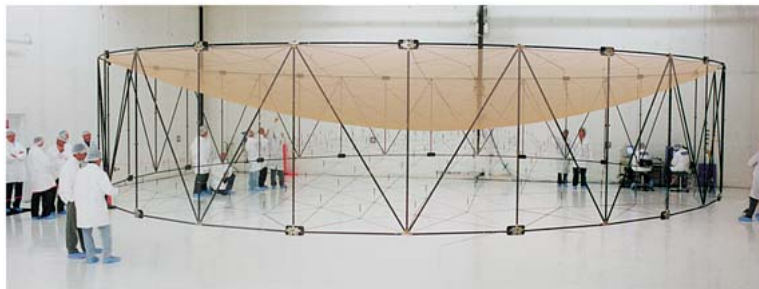
ASTROMESH™ DEPLOYABLE REFLECTOR

Description:

The AstroMesh unfurlable reflector is the result of development over 10 years. Offering high deployed stiffness and compact stowed volume, the AstroMesh reflector is optimized for high surface accuracy and very low PIM (Passive InterModulation) needed for new high-power communications satellites. Both 6-meter and 12-meter designs have been fully tested and are space-qualified. Apertures from 5 to over 20 meters can be provided. High frequency designs with enhanced performance are also available.

Features:

- High Deployed Stiffness
- High Accuracy
- L and S-Band Compatible
- PIM-Free
- Low Mass
- Optimized for offset fed antenna configurations



AstroMesh is a patented design of Astro Aerospace (U.S. Patent No. 5,680,145).

SPECIFICATIONS

Performance	6-Meter	12-Meter
Mass (Reflector only)	32.0 lb (14.5 kg)	125.7 lb (57.0 kg)
Stowed Dimensions		
Diameter	2.0 x 2.2 ft (0.60 x 0.66 m)	3.0 x 3.7 ft (0.91 x 1.14 m)
Length	5.05 ft (1.54 m)	12.50 ft (3.81 m)
Deployed Configuration		
Aperture	18.05 ft (5.50 m)	40.19 ft (12.25 m)
Center Offset	12.3 ft (3.75 m)	27.2 ft (8.30 m)
F/d	0.64	0.45
First Mode (Fixed Boom)	2.00 Hz	0.80 Hz
Surface Accuracy		
Total (RSS)	0.026 inch (0.62 mm)	0.055 inch (1.40 mm)
Faceting (Geometric) (RMS)	0.013 inch (0.33 mm)	0.043 inch (1.10 mm)
Manufacturing (RMS)	0.015 inch (0.38 mm)	0.020 inch (0.50 mm)
Thermal (RMS)	0.010 inch (0.25 mm)	0.020 inch (0.05 mm)



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