## Type 185: 1.8m Rx/Tx Standard Ku-Band SFL Class III Antenna with Mode Matched Feed





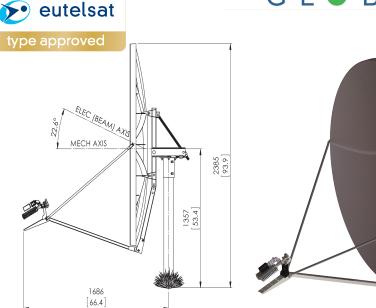




- Eutelsat Certificate No. EA-V065
- One-piece precision Reflector
- Precision Az/El Mount
- Fine Azimuth and Elevation **Adjustment Features**
- All Materials Comply with EU Directive No. 2002/95/EC (RoHS)



- 720 Hour Salt Spray Hardware
- Standard Waveguide Flange Interface



The Skyware Global 1.8m Rx/Tx Standard Ku-Band SFL Class III Antenna with Mode Matched Feed is a rugged, commercial quality product suitable for the most demanding applications. The Antenna features a unique feed which provides cross-pol performance that exceeds instudtry standards.

- The reflector is constructed from glass fiber reinforced polyester for strength and accuracy. A proprietary process developed by Skyware Global ensures high RF reflectivity as needed for Ku-Band operation.
- The precision Az/EI mount is made of galvanized steel for excellent corrosion resistance. This mount includes special features to increase pointing accuracy with low backlash and lockdown error.
- This Az/El allows the antenna to be installed on standard (114mm) [4.50"] OD installation mounts.
- All hardware is plated to 720 hour salt spray standards tested in accordance with ASTM B-117.
- TX Cross-Polarization Isolation of 29dB within 1dB contour.
- Excellent Tx Port-to-Port Isolation of 90dB or better.
- Meets or exceeds regulator agency requirements.
- Heavy-duty Class III mount for 11 kg (25 lb) RF electronics (LNB & BUC) with <16W installed power. (BUC support kit may be required depending on application.)



REV 08/15-01 Page 1 of 2

## PRODUCT SPECIFICATIONS

**RF Performance** 

Operating Frequency
TX
Polarization Linear Orthogonal
Gain (±0.3 dB)  TX
3 dB Beamwidth TX
Sidelobe Envelope (Tx, Co-Pol dBi)         Eutelsat Standard M         Mainbeam       q < 20°.
Antenna Cross-Polarization within 1dB contour TX
Antenna Noise Temperature  10° EL
VSWR TX
Isolation*(Port to Port) TX
Feed Interface TX

## 1.8m Rx/Tx Standard Ku-Band SFL Class III Antenna with Mode Matched Feed

## **Mechanical Performance**

Reflector Material Glass Fiber Reinforced Composite
Antenna Optics One-Piece Offset Feed Prime Focus
Mount Type Elevation Over Azimuth
Elevation Adjustment Range 10°- 90° Continuous Fine Adjustment
Feed Support Regular Section with Alignment Legs
Mast Size 4.50" (114mm) Diameter
Antenna Weight

Environmental Performance
Windloading Operational72km/h (45 mph)
Functional Survival
Ultimate Survival 200km/h (125 mph)
Survival Temperature50°C to +80°C
Operational Temperature
Humidity 0 to 100% (Condensing)
Atmosphere

Shock and Vibration . . . . . . . . . . . . . . . As Encountered during





Shipping and handling

REV 08/15-01 Page 2 of 2

