The Haigh-Farr Flexislot™ antenna offers unique mounting capabilities and is designed for simple installation and retrofit on flat, cylindrical and conical shaped bodies. It provides broadbeam E-plane pattern coverage. Designs are available from 300 MHz to 13 GHz.

The Flexislot™ is a building block element and may be arrayed to provide either directive beam shapes or wider spherical coverage. If more than one Flexislot™ is used, the necessary power divider circuitry may be contained within one of the elements or provided as a separate device.

Haigh-Farr also manufactures the necessary cabling to feed multi-element systems. All multi-element configurations are tested as a system, including measuring the radiation pattern.

The Flexislot™ antenna may be either flush mounted or mounted directly to the exterior of the vehicle, and may be secured to the vehicle using mechanical fasteners and/or adhesive bonding agents.

The antenna may be mounted inside a radome for enhanced ruggedization. For high aero-heating applications an ablative heat shield may be added.

**FEATURES:**
- Hemispherical Coverage
- Designs Covering Discrete Bands from 300 MHz to 13 GHz
- Ultra Small Footprint
- Built to Withstand Extreme Shock & Vibration
- Simple Installation

**APPLICATIONS:**
- Tactical Missiles
- Aircraft, Helicopters
- Missiles
- Launch Vehicles
- Targets

**DESIGN CAPABILITY:**
Haigh-Farr has an over 50 year history of designing and producing exceptionally rugged, high-performance antennas. If you don’t find an antenna meeting your requirements in our standard list of products, Haigh-Farr has the experience and modeling capability to customize a solution. Adaptations of existing designs can be done with very short lead times.

Contact Haigh-Farr for a review of your antenna requirements.
TYPICAL SPECIFICATIONS:

- **Operating Band**: 300 MHz to 13 GHz
- **Input Impedance**: 50 Ohms
- **Bandwidth**: Design parameter, 1% - 5%
- **VSWR (Across Band)**: 2:1 Max across Band
- **Power**: 40 W cw, 5kW peak
- **Polarization**: Linear
- **Radiation Pattern***: See plots below
- **Connector**: SMA standard, other connector options available including direct cable feeds
- **Weight**: Function of electrical requirements 1.0 ounces (28g), basic S-Band antenna
- **Dimensions**: Basic S-Band antenna dimensions:
  - Width: 2.0" (51 mm)
  - Length: 2.8" (71 mm)
  - Thickness: .10" (2.5 mm)
- **Mounting Surface**: Antenna is flexible and manufactured to naturally mate with specific cylindrical, conical or flat surface
- **Securing**: Screw and/or Bond
- **Altitude**: Any
- **Environment**: Design parameter, typical of tactical supersonic missiles and kinetic kill weapons

*Radiation patterns are a function of the vehicle shape and size since the vehicle serves as the ground plane for the antenna. The patterns shown were measured on a typical smooth cylindrical ground plane.