

**IRIDIUM APPROVED!**

OVERVIEW

Iridium satphones were designed to operate with a passive antenna, either an element attached directly to the handset, or a remote aerial connected with a short length of coaxial cable. A signal loss of more than 3dB in a remote antenna's connecting cable degrades performance due to attenuation of both the received and transmitted signals. A 3dB loss corresponds to approximately 20m of LMR600 or 6m of LMR240 coaxial cable, lengths that clearly restrict the mounting options for the antenna using standard down-leads.

ASE Fixed Mast Antenna, for use with the Iridium 9505A or 9555 satellite phones delivers exceptional reception performance for permanent in-building or marine applications. This antenna is designed for free-air operation, no ground plane.

ASE Fixed Mast Antenna Features:

- Use with any Iridium Satellite Phone or Dock
- Completely sealed and contains no moving parts
- For Threaded Pipe Mounting or Additional Mount
- Ideal for marine or in-building use



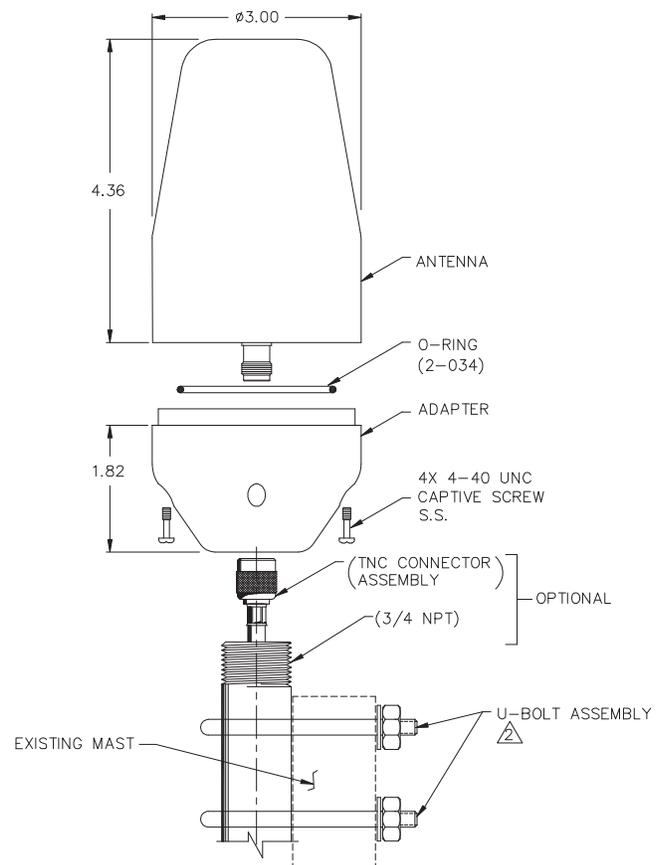
AVAILABLE CONFIGURATIONS

ASE FA-0	antenna only *
ASE FA12	12m (39 ft)
ASE FA20	20m (65ft)

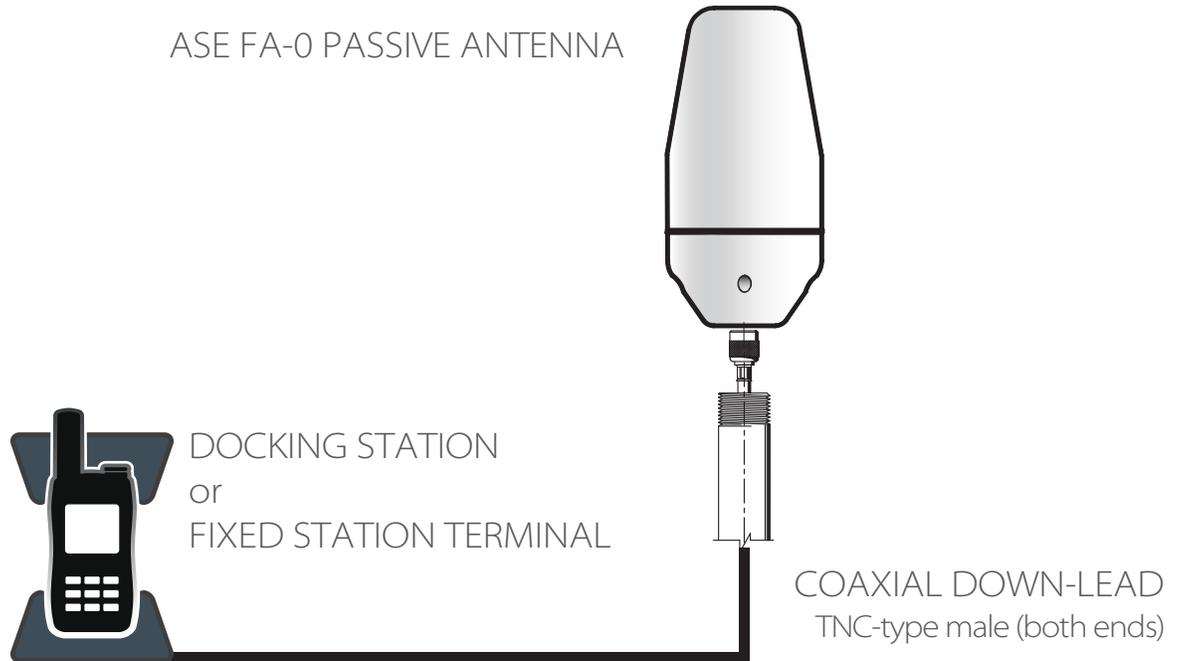
***NOTE:** The antenna cable must ensure a loss of < 3 dB and the minimum link margin of 12.1 dB must be maintained.

SPECIFICATIONS

Dimensions: (excl. mounting bracket)	Length: 18.7cm (7.4") Diameter: 7.6cm (3")
Weight: (excl. mounting bracket)	311.85g (11 oz)
Operating Temperature:	-40 to +85 degrees C
Antenna Head Connection:	TNC female
Frequency:	1616 – 1626.5Mhz
Polarization:	Right Hand Circular
Antenna Type:	RHCP Dipole
Antenna Gain (dBic):	0.0 dBic
Radiation Pattern:	0.4dBic: 0° = 0°m 1.4dBic: 0° < Zenith < 45° -0.25dBic: 75° < Zenith < 82°
Return Loss (minimum):	9.5 dB (<2.0:1 VSWR)



SYSTEM CONNECTIONS



- (1) Mount ASE antenna with clear view of sky using bracket or direct threaded pole.
- (2) Attach top end of the coaxial down-lead to TNC type connector on underside of antenna.
- (3) Attach bottom end of down-lead to TNC type connector on the docking station or fixed station terminal.
- (4) Power up docking station or fixed station terminal.
- (5) Turn on Iridium satphone and log-in.

CABLE TYPES

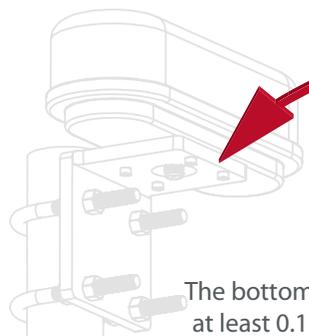
Type	Manufac.	dB loss/ft	TNC loss	Max Length (ft)	Cable Dia. (in)	Bend Radius (in)
LMR240	Times	0.103	0.72	22.1	0.240	0.75
LMR400	Times	0.05355	0.72	42.6	0.405	1.00
LMR600	Times	0.0347	0.72	65.7	0.590	1.50

Max length calculated for 3dB loss at Freq. = 1626.5 MHz

Min TMC loss = 4 x 0.18dB = 0.72dB

Sources: Times Microwave (LMR cable), Amphenol (TNC)

MOUNTING GUIDE



The bottom of the antenna must be at least 0.15M(.5FT) above building



360° view



8° clearance angle

Mounting distance must be at least 1m (3.2ft) surrounding structure

AVAILABLE PASSIVE ANTENNAS

- ASE-FA12 12m (39 ft)
- ASE-FA20 20m (65 ft)

AVAILABLE OPTIONS

ASE-LA01 LIGHTNING ARRESTER



ASE-LA01



To Docking Station or Fixed Station Terminal

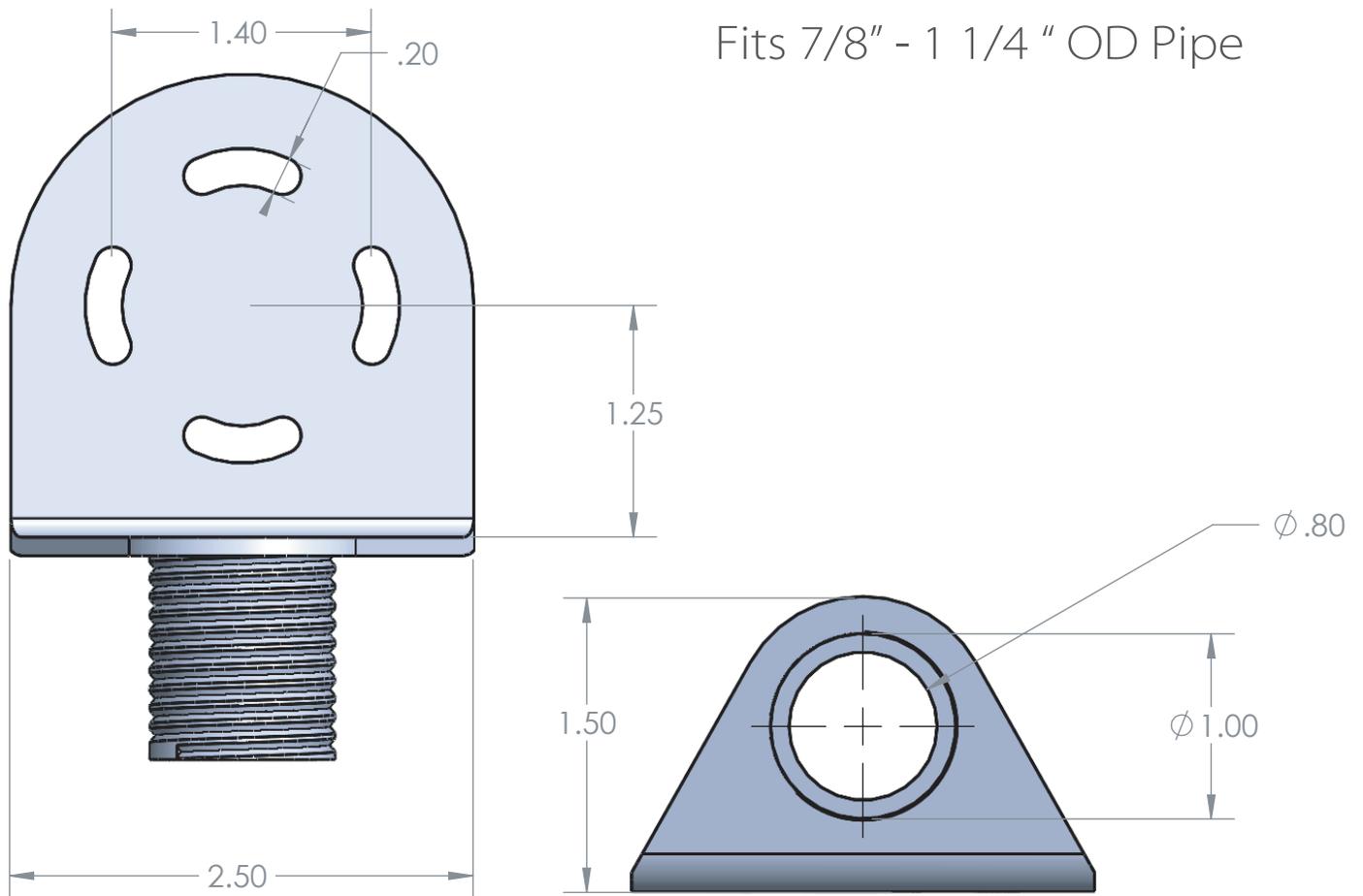
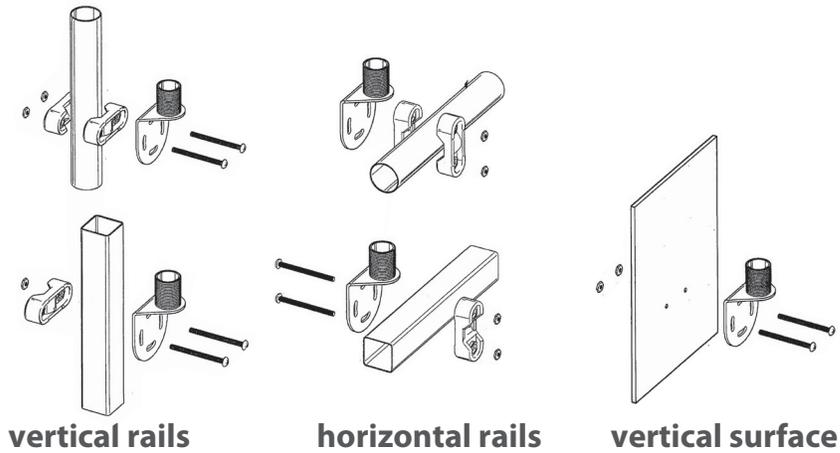
Connector diameter for conduit pull-thru:

TMC-male 0.571 in / 14.5 mm



Shakespeare 4720 rail mount

(optional)



1:1 Scale