FIA 10-710SW

E-band 3.3ft (100cm) antenna



General Specifications

Diameter	1m
Standard Colour	RAL 7035
Shroud	Low Profile - Deep dish type
Antenna Input	Integrated, according to Customer's specifications
Polarization	Single

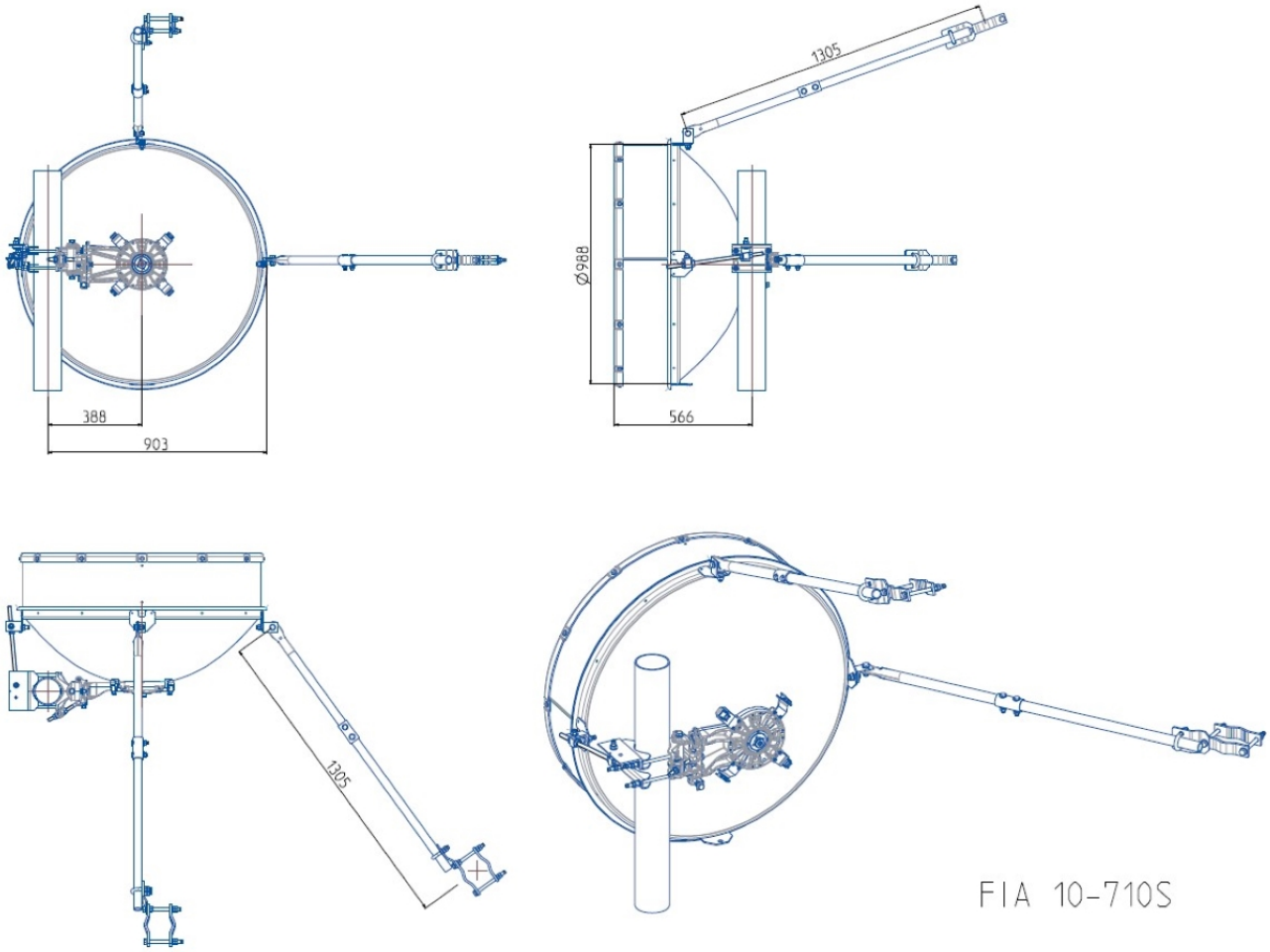
Mechanical Characteristics

Pole	115 mm
Elevation-fine adjustment	+/- 15 deg
Azimuth-fine adjustment	+/- 20 deg
Side struts, included	3
Side struts, optional	0
Net weight	37.5 Kg
Radome	Rigid Plastic
Wind velocity Operational	30 m/s
Wind velocity Survival	70 m/s
Wind deflection	< 0.3 times the -3 dB beam width
(with a wind velocity of 30 m/s)	Specified wind deflection applies for 115 mm dia mounting pipe only

Antenna Dimensions

(pole mount included)

Height	988 mm
Width	988 mm
Depth	566 mm



Wind forces at wind velocity survival rating and with 25 mm (1") ice load

Axial force	3227 N
Side force	1598 N
Twisting Moment	1217 N*m

Maximum forces exerted on a supporting structure as a result of wind (survival rating) from the most critical direction for each parameter. These values may not occur simultaneously. All forces are referred to the mounting pipe of 115 mm diameter

Electrical Characteristics

Frequency range	71-86 GHz
Gain, low band	53.5 dBi
Gain, mid band	54.0 dBi
Gain, top band	54.5 dBi
Return Loss	14 dB
VSWR	1.5
HPBW	0.25 deg
Front to back ratio	72 dB
Isolation	30 dB
XPD	30 dB
Electrical Compliance	ETSI 302 217 Class 3
	US FCC Part 101.115

Shipping Information

Gross weight	50 Kg
Height	83 c m
Depth	113 cm
Width	114 cm

faini telecommunication systems	RADIATION PATTERN ENVELOPE ANTENNA TYPE FIA100-80S	1803

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FREQUENCY BAND: 71000 to 86000 MHz
DIAMETER: 1.0 m
GAIN: SINGLE POLARIZED 54.0 ± dBi at 78500 MHz
VSWR: 1.5 max
HPBW: 0.25 deg. Azimuth 0.25 deg. Elevation

