



RFS TrunkLine Antennas are designed for microwave backbone networks, long distance, high capacity links
 A choice between tested and validated ultra-high (ETSI EN 302 217 Class 3 and FCC Class A) electrical performance or high (ETSI Class 2 and FCC Class B) performance
 Sizes ranging from 1.8 m (6 ft) to 4.6 m (15 ft)
 Single- and dual-polarized models with the ability to upgrade from single to dual polarization and change frequencies in the field in most cases

FEATURES / BENEFITS

- Field-proven reliability and long life
- Support for winds up to 200 km/h (125 mph) with high-wind versions that support winds up to 252 km/h (155 mph) and an optional sway bar for added assurance in case mistakes are made during installation
- A single-piece configuration and compact packaging to reduce transportation costs
- Frequencies ranging from 4 GHz to 15 GHz with support for two wideband frequency ranges (5.725-6.875 and 7.125-8.5 GHz) to reduce antenna requirements and simplify logistics

The design of this high wind high ice antenna model features :

- a reinforced mounting structure
- 4 sway bars, strategically located
- a PVC coated radome optimized for areas with high wind and snow appearance

This specific design allow the antenna to survive in High Wind and High Ice climate and withstand :

- a 250km/h (155mph) survival wind speed with 25mm (1 inch) of radial ice
- a 225km/h (140mph) survival wind speed with 55mm (2 inches) of radial ice



Antenna with Extreme Radome

Technical features

GENERAL SPECIFICATIONS

Product Type		Point to point antennas
Profile		TrunkLine
Performance		High
Polarization		Single
Antenna Input		CPR137G
Reflector		1-part
Radome		flexible
Antenna color		White RAL 9010
Swaybar		4: (3 x 3.0 m x Ø60 mm, 1 x 1.5 m x Ø60 mm)

ELECTRICAL SPECIFICATIONS

Frequency	GHz	6.425 - 7.125
3dB beamwidth	degrees	1
Low Band Gain	dBi	43.7
Mid Band Gain	dBi	44.1
High Band Gain	dBi	44.6
F/B Ratio	dB	69
XPD	dB	30
Max VSWR / R L	VSWR / dB	1.06 (30.7)
Regulatory Compliance		ETSI EN 302217 Range 1, class 2 FCC Category A



MECHANICAL SPECIFICATIONS

Diameter	ft (m)	10 (3)
Elevation Adjustment	degrees	± 5
Azimuth Adjustment	degrees	± 5
Polarization Adjustment	degrees	± 5
Mounting Pipe Diameter minimum	mm (in)	114 (4.5)
Mounting Pipe Diameter maximum	mm (in)	114 (4.5)
Approximate Weight	kg (lb)	290 (638)
Survival Windspeed	km/h (mph)	252 (155)
Operational Windspeed	km/h (mph)	190 (118)

STRUCTURE

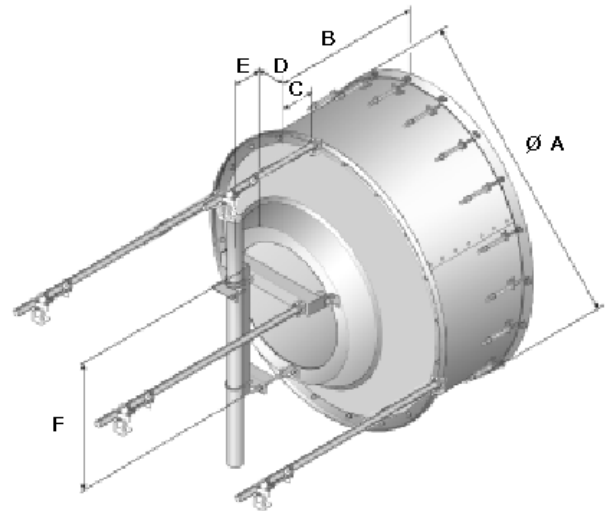
Radome Material	PVC coated fabric
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FURTHER ACCESSORIES

optional Swaybar	4: (3 x 3.0 m x Ø60 mm, 1 x 1.5 m x Ø60 mm)
Further Accessories	SMA-SKO-UNIVERSAL-L : Universal sway bar fixation kit

MOUNTOUTLINE

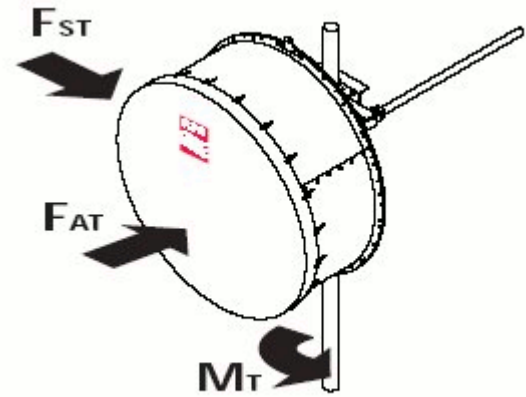
Dimension_A	mm (in)	3220 (126.8)
Dimension_B	mm (in)	1640 (64.6)
Dimension_C	mm (in)	550 (21.7)
Dim_D- 114mm(4.5_in)Pipe	mm (in)	190 (7.5)
Dimension_E	mm (in)	370 (14.6)
Dimension_F	mm (in)	1440 (56.9)





WINDLOAD

Fs Side force max. @ survival wind speed	N (lb)	14984 (3356)
M Torque maximum @ survival wind speed Nm (ft lb)	Nm (lb ft)	16000 (11875)
Fa Axial force max. @ survival wind speed	N (lb)	30226 (6781)



External Document Links

- [Antenna Installation Instruction](#)
- [RPE \(IQ-Link format\)](#)
- [RPE \(PDF format\)](#)
- [RPE \(Pathloss format\)](#)

Notes

- listed wind speeds are on "ASD" level
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