SST-4/6

Accessory: Side Strut, used with SP4 SP6 HP4 HP6 Parabolic Reflector Antennas

General Specifications

Item	Accessory: Side Strut
Used With	SP4 SP6 HP4 HP6 Parabolic Reflector Antennas

Comments

Use SST Side Struts to increase reflector antenna stability and increase wind survival speed.Radiowaves highly recommends the usage of additional side struts.

Mechanical Specifications

Length of strut pipe	60
Wind Survival With Extra Strut:	
SP4 HP4	155 mph (249 km/h)
SP6 HP6	155 mph (249 km/h)
Net Weight	23 lbs | 10.5 kg
Mechanical Configuration	SST
Operating temperature range	-40 to +60 C

Regulatory Compliance

RoHS-complaint	Yes

Shipping Information

Package Type	Cardboard

Gross Weight	25 lbs | 11.3 kg
Dimensions, L x W x H	9 x 9 x 63in | 22 x 22 x 160 cm
Shipping Volume	3 cu ft | 0.08 cu m

Technical Drawings



Radiowaves Glossary

Axial Force:	Force applied to the face of the antenna due to wind at specified wind speed
Beamwidth	The total width of the main beam measured in degrees between the 3-dB (half-power) points on either side of the peak of the main beam
Cross Polarization Discrimination (XPD)	The dB difference between maximum received co-polarized signal at electrical boresight and maximum received cross-polarized signal
Front to Back Ratio (F/B)	The dB difference between maximum received signal at electrical boresight to maximum received signal behind the antenna (180 +/- 40 degrees)

Gain	A measure of how well the antenna focuses available energy into a single beam. Larger antennas typically have higher gains and smaller beamwidths.
Gross Weight	Shipping weight, includes weight of antenna plus packaging materials
Net Weight	Weight of antenna only as mounted on tower.
Operating Frequency Band	The frequency limits between which the antenna meets declared specifications. Antennas may operate outside the frequency band with mild performance degradation.
Return Loss	A measure of how much rf energy incident upon the antenna is reflected back from whence it came, expressed as a negative dB value.
Side Force (FS)	Force applied to the side of the antenna due to wind at specified wind speed
Twisting Moment (MT)	The torsional (twisting) moment (force x distance) applied to the mounting pipe due to wind at the specified wind speed.
VSWR	A measure of how much rf energy incident upon the antenna is reflected back from whence it came, expressed as a ratio
Wind Velocity Operational	Wind speed where the antenna deflection is less than or equal to 0.1 degrees
Wind Velocity Survival Rating	Wind speed where the antenna will not suffer permanent damage, but may require re-pointing.