

0.55M Flyaway Antenna

0.55/0.75/1.0/1.2/1.8m

Material :carbon fiber

Weight equivalent to 4.5 kg bags

Manpack satellite antenna

flyaway antenna	0.55m flyaway antenna
antenna form	single offset
work frequency	Tx 14—14.5GHz
	Rx 10.95—12.75GHz
VSWR	$\leq 1.25:1$
Gain	$Tx \geq 35.6 + 20 \lg(f/14.25)$
	$Rx \geq 34.4 + 20 \lg(f/12.5)$
cross-polarization	$\geq 33\text{dB}$ (on axial)
Tx/Rx Isolation	$\geq 85\text{dB}$
polarization	linear
feed interface	WR75
feed insert loss	$\leq 0.45\text{dB}$
wind load operation	50km/H with the anchor block or counter weight.
first side lobe	$\leq -14\text{dB}$
Power Capacity	$\geq 100\text{w}$
weight	$\leq 4.5\text{KG}$ with the bag
slewing area	Azimuth: $\pm 20^\circ$
	Elevation: $0^\circ \text{ -- } 90^\circ$
	Polarization: $\pm 90^\circ$
temperature operation	$-40^\circ \text{ C} \sim +55^\circ \text{ C}$ outdoor

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