

# Microwave antenna

## AL1-32/APR

# ALCOMA

### Microwave antenna description

High Performance 0.35 m antenna for ALCOMA point to point radios.

### General parameters

Diameter	0.35 m (1 ft.)
Feeder	single polarized
Input flange standard - optional	circular, hole diameter 5.5 mm IEC UBR 320
Polarization	horizontal or vertical
Environmental temperature	-45 °C až +55 °C
Color	light gray
Radom color	white
Radom material	plastic (ABS)

### Electrical parameters

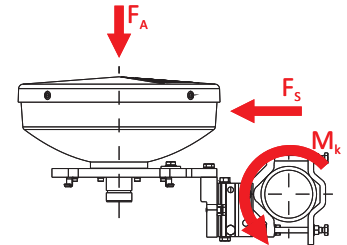
Frequency band	31.8 - 33.4 GHz
Gain mid band	39 dBi
3 dB - BW	2.0° (H/ V)
Return loss	> 1.20 (20 dB)
F/B ratio	63 dB
XPD	30 dB
Class	2 or 3 (ETSI EN 302 217-4-2)



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### Mechanical parameters

Wind speed	max 30 m/s (110 km/h)
Wind speed non destruct	max 55 m/s (200 km/h)
Net weight	8.1 kg
Pipe diameter	42 - 120 mm
Fine adjust Azimuth	$\pm 20^\circ$
Fine adjust Elevation	$\pm 20^\circ$



### Forces and twisting moment due to wind

Wind speed	30 m/s (110 km/h)	55 m/s (200 km/h)
$F_a$	90 N	270 N
$F_s$	30 N	85 N
$M_k$	25 Nm	70 Nm
Icing thickness 25 mm (led 7kN/m <sup>3</sup> )	70 N	

### Outlines

