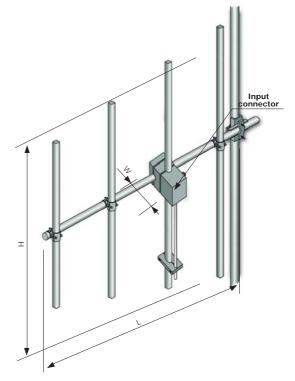
TELECOMUNICAZIONIFERRARA RVRGROUP Model AJ4E – AJ4EBI – AJ4E/INOX – AJ4E/IT

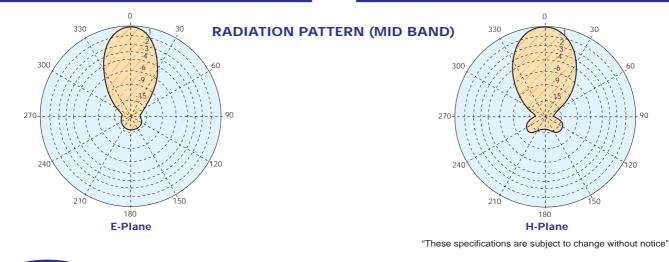
- High Power Version (H.P.)
- FM Band 87.5÷108 MHz
- Suitable for VHF, Band I and OIRT Band
- Gamma Match Tuned
- Directional pattern
- Vertical or horizontal polarization
- Light Low Cost Demountable



ELECTRICAL DATA						
Frequency range	87.5÷108 MHz					
Impedance	50 Ohm					
Connectors	N or 7/16" female or 7/8" EIA					
Max Power	650W (N) – 1300W (7/16" – H.P. Version)					
VSWR	\leq 1.1:1 in the operating channel					
Polarization	Vertical or horizontal					
Gain	8 dB (referred to half-wave dipole)					
Pattern	E plane ± 25° H plane ± 30°					
Lightning protection	No DC grounded					

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MECHANICAL DATA						
Dimensions	According to the working frequency 1500 (H) x 2090 (L) x 100 (W) mm at 98 MHz					
Weight	According to the working frequency (aluminium or stainless steel)					
Wind surface	0.18 m ² (at 98 MHz)					
Wind load	23.3 kg (wind speed at 160 km/h)					
Max wind velocity	180 km/h (AJ4E/IT model)					
Materials	AJ4E: Aluminium elements and boom AJ4EBI: Aluminium elements and stainless steel boom AJ4E/INOX: Stainless steel elements and boom Tig Welded Version Teflon insulator Radome: fiberglass (option)					
Icing protection	Feed point radome (optional)					
Radome	Optional					
Mounting	With special pipe clamps 50+110 mm dia.					



RVRGROUPTELECOMUNICAZIONIFERRARA Model AJ4E – AJ4EBI – AJ4E/INOX – AJ4E/IT

Radiations systems with AJ4E antenna

Collinears systems

ELECTRICAL DATA				
Frequency range	87.5÷108 MHz			
Impedance	50 Ohm			
Connector	EIA flange according to system power rating			
VSWR	≤ 1.1:1 Max			
Polarization	Vertical			
Gain	According to requirement			
Horizontal pattern	Any type according to requirements			
Vertical pattern	Null fill, beam tilt and special requirements to order			
Other facilities	The antenna system can be supplied in split feed with two equal half antennas. Each half can accept full power			

MECHANICAL DATA					
Height of array	Subject to number of bays (refer to table)				
Total net weight	According to the working frequency				
Wind load	Refer to table (at 98 MHz)				
Pressurizzable	No				
Radome	Optional				
Mounting hardware	Hot dip galvanized steel clamps				
Shipping	As required				

TECHNICAL DATA

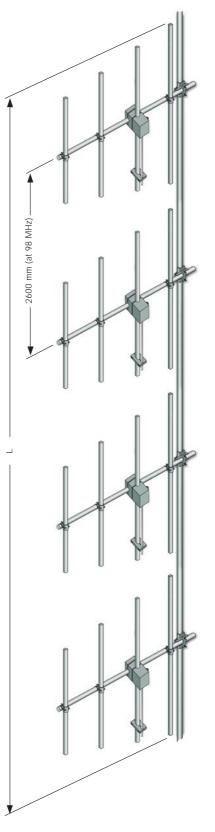
Number D of bays	Dipole per	Gain ¹		Weight ²	Antenna height L	Wind load (v=160 km/h)
	bay	dB	times	kg	m	kg
1	1	8.0	6.3	-	1.5	23.3
2	1	11.0	12.6	-	4.1	46.6
4	1	14.0	25.2	-	9.3	93.2
6	1	15.8	37.8	-	14.5	139.8
8	1	17.0	50.4	-	19.7	186.4

¹ Referred to a half wave dipole. Attenuation of connecting cables not taken into account.

² Without mounting hardware.

Gain is provided for vertical polarization.

- If the antenna is side mounted, the supporting structure will have a slight effect on the radiation pattern and VSWR.
- Vertical tower space, wind load and weight numbers given are typical. Actual values vary with the specific installation. Contact us for more details of your installation.
- > Gain will be reduced if null fill, beam tilt or special wavelength spacing is provided.
- > Antenna radiation aperture is the distance from the centre of the top bay to the centre of the bottom bay.
- > Five ft(1.6mt) of pipe required above the top bay and below the bottom bay for to protect from pattern interference by other antennas.
- > Antenna wind load is calculated for 100 Mph (160Km/h) per EIA-222-C standard.



"These specifications are subject to change without notice"

