

2-Stack Dipole Arrays

VHF Mid-Band 66...87,5 MHz

- ★ FDC two-stack dipole arrays consist of centre-fed, broadband, half-wave antennas fully equipped with mounting booms and clamps.
- ★ By vertically stacking these antennas, the width of the vertical beam is minimised while the width of the horizontal beam remains unchanged.
- ★ This configuration results in a 3 dB gain.

Electrical Data

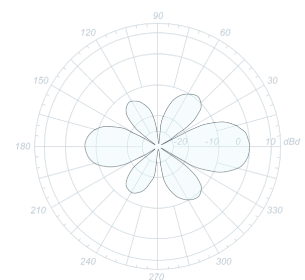
Sales code	FDC72/2S	FDC80/2S
Article number	A10AA0815A	A10AA0816A
Frequency	66—78 MHz	73,5—87,5 MHz
Average gain	3 dBd	
Nominal gain	5 dBd (on Support Pipe)	
VSWR	≤1,5:1	
Polarisation	Vertical	
H-plane	190° @ 3 dB Beam Width	
E-plane	30° @ 3 dB Beam Width	
Rated power	150 W	
Impedance	50 Ω	
Termination	N Male	
Surge protection	All metal parts are directly grounded	

Mechanical Data

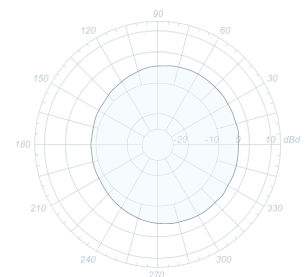
Wind velocity	≤ 200 km/h	
Wind load @ 144 km/h	48,2 kg	44,6 kg
Flat plate area	0,456 m ²	0,420 m ²
Material	Aluminium	
Mounting	With crossover plate assembly (support pipe optional extra)	
Antenna dimensions	H 3,9 m	H 3,5 m
Parcel dimensions	9,4 kg / 2 off 236 cm x 28 cm x 8 cm	8,6 kg / 2 off 236 cm x 28 cm x 8 cm

Notes:

The horizontal radiation pattern is omnidirectional. Vertical polarisation. Normalised scale - not amplification (gain).



Typical vertical pattern double dipole VHF



Typical horizontal pattern in single dipole VHF Africa

2-Stack Dipole Arrays

VHF Air-Band/High-Band 118...268 MHz



Electrical Data

Sales code	FDC125/2S	FDC145/2S	FDC160/2S	FDC250/2S
Article number	A10AA0760A	A10AA0762A	A10AA0759A	A10AA0812A
Frequency	118—136 MHz	138—156 MHz	146—174 MHz	254—268 MHz
Average gain	3 dBd			
Nominal gain	5 dBd (on Support Pipe)			
VSWR	≤1,5:1			
Polarisation	Vertical			
H-plane	190° @ 3 dB Beam Width			
E-plane	30° @ 3 dB Beam Width			
Rated power	150 W			
Impedance	50 Ω			
Termination	N Male			
Surge protection	All metal parts are directly grounded			

Mechanical Data

Wind velocity	≤ 200 km/h			
Wind load @ 144 km/h	30 kg	28,1 kg	26,9 kg	21,5 kg
Flat plate area	0,283 m²	0,266 m²	0,252 m²	0,202 m²
Material	Aluminium			
Mounting	With crossover plate assembly (support pipe optional extra)			
Antenna dimensions	H 3,6 m	H 3,0 m	H 2,6 m	H 1,8 m
Parcel dimensions	7,3 kg / 2 off 110 cm x 30 cm x 8 cm + 1 off 32 cm x 33 cm x 6 cm	7,1 kg / 2 off 110 cm x 30 cm x 8 cm + 1 off 32 cm x 33 cm x 6 cm	6,9 kg / 2 off 110 cm x 30 cm x 8 cm + 1 off 32 cm x 33 cm x 6 cm	5,7 kg / 2 off 110 cm x 30 cm x 8 cm + 1 off 32 cm x 33 cm x 6 cm

