

**9 elements
Yagi antenna
144 to 146 MHz
19 elements
430 to 440 MHz
Special satellite
Part Nr. 220899**



Both antennas are electrically completely independent. So they need two separate coaxial feed lines.

Both antenna planes being orthogonal, when one antenna is used in horizontal polarization, the other is then in vertical polarization. This has no importance as far as satellite operation is concerned.

On other hand, proper stacking of such antennas is impossible. Suppose an optimized stacking for the 144 MHz band ; spacings are then too large at 432 MHz. If optimized at 432 MHz, they become too short at 144 MHz, leading to unacceptable impedance mismatch and practically no stacking gain.

Electrical data

Refer to respective data of the antenna Part Nr. 20809 for the 144/146 MHz section and of the antenna Part Nr. 20919 for the 430/440 MHz section.

Mechanical data

- Connector : N
- Overall length : 3.70 m
- Mass : 3.5 kg
- Effective wind load
 - Horizontal polarization : 0.10 m²
 - Vertical polarization : 0.16 m²
- Approximate wind load (25 m/s - 55 mph)
 - Horizontal polarization : 4.1 daN
 - Vertical polarization : 6.5 daN
- Approximate wind load (45 m/s - 100 mph)
 - Horizontal polarization : 13.2 daN
 - Vertical polarization : 21.0 daN

Note : «horizontal» and «vertical» refer to plane of the 144 MHz antenna section