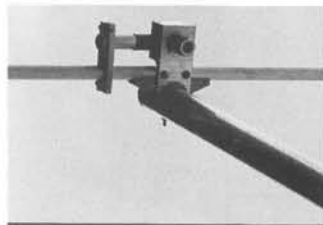


CUE DEE antennas are designed to last for decades - the best possible aluminium alloy for this purpose is used (SIS 4212-06).

The booms are made of 28 mm tubing with 1,5 mm wall, with colour marks clearly indicating where to fit the elements. By using tubular boom and a synthetic guy wire on the long yagis, the windload is reduced by a factor 0,66 compared to using square shaped material for boom and guying.

The driven element is made of 12 mm tubing and features a PTFE (Teflon) insulated gamma match which is pre-set at the factory and made for 50 ohm feeder. The driven element is made with a N socket fitted into a CUE DEE aluminium housing. No further adjustment or power consuming balun is needed. This matching system ensures a clean radiation pattern and transfers the power without losses.

The parasitic elements are made of 6 mm solid rod and mounted to the boom with aid of a CUE DEE bracket. This, together with our intelligible assembly manual, makes an extremely easy and solid assembly which assures the long life of a CUE DEE antenna .....



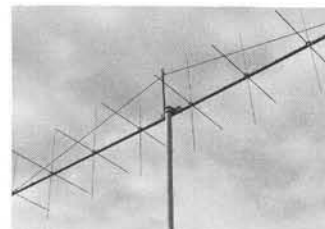
PTFE (teflon) insulated gamma match



Element to boom mounting



Support of guy wire



Synthetic guy wire used on the long yagis



Mounting of guy wire on boom

### Specifications VHF antennas

| Model                 | D144AN | 4144AN              | 6144AN              | 10144AN             |         | 10X144AN            | 15144AN             | 15X144AN            |
|-----------------------|--------|---------------------|---------------------|---------------------|---------|---------------------|---------------------|---------------------|
| No. of elements       | 1      | 4                   | 6                   | 10                  |         | 2 x 10              | 15                  | 2 x 15              |
| Frequency             |        |                     |                     |                     | 144 MHz |                     |                     |                     |
| Gain over dipole      | 0      | 8 dB                | 9 dB                | 11.6 dB             |         | 11.6 dB             | 14 dB               | 14 dB               |
| Front/Back            |        | 20 dB               | 20 dB               | 25 dB               |         | 25dB                | 30 dB               | 30 dB               |
| Front/Side            |        |                     |                     |                     | > 40 dB |                     |                     |                     |
| SWR                   |        |                     |                     |                     | < 1.5/1 |                     |                     |                     |
| Aperture angle E      |        | 56°                 | 49°                 | 37°                 |         | 37°                 | 30°                 | 30°                 |
| Aperture angle H      |        | 76°                 | 61°                 | 42°                 |         | 42°                 | 32°                 | 32°                 |
| Impedance             |        |                     |                     |                     | 50 ohm  |                     |                     |                     |
| Mast diameter         |        |                     |                     |                     | 50 mm   |                     |                     |                     |
| Boom length           | 0.49 m | 1.1 m               | 1.7 m               | 4.5 m               |         | 4.55 m              | 6.45 m              | 6.5 m               |
| Surface area          |        | 0.03 m <sup>2</sup> | 0.07 m <sup>2</sup> | 0.12 m <sup>2</sup> |         | 0.16 m <sup>2</sup> | 0.18 m <sup>2</sup> | 0.23 m <sup>2</sup> |
| Wind load at 160 km/h |        | 46 N                | 83 N                | 182 N               |         | 243 N               | 273 N               | 349 N               |
| Weight                | 0.5 kg | 1 kg                | 1.5 kg              | 3 kg                |         | 3.4 kg              | 5 kg                | 5.5 kg              |
| No. of boom parts     | 1      | 1                   | 1                   | 3                   |         | 3                   | 4                   | 4                   |

### Specifications UHF antennas

| Model                 | D432AN | 11432AN             | 17432AN             |  | 17X432AN            | 23432AN             |
|-----------------------|--------|---------------------|---------------------|--|---------------------|---------------------|
| No. of elements       | 1      | 11                  | 17                  |  | 2 x 17              | 23                  |
| Frequency             |        |                     |                     |  | 432 MHz             |                     |
| Gain over dipole      | 0      | 10.9 dB             | 14.5 dB             |  | 14.5 dB             | 15.5 dB             |
| Front/Back            |        |                     |                     |  | 25 dB               |                     |
| Front/Side            |        |                     |                     |  | > 40 dB             |                     |
| SWR                   |        |                     |                     |  | < 1.5/1             |                     |
| Aperture angle E      |        | 39°                 | 29°                 |  | 29°                 | 23°                 |
| Aperture angle H      |        | 44°                 | 31°                 |  | 31°                 | 24°                 |
| Impedance             |        |                     |                     |  | 50 ohm              |                     |
| Mast diameter         |        |                     |                     |  | 50 mm               |                     |
| Boom length           | 0.49 m | 1.50 m              | 2.5 m               |  | 2.55 m              | 3.9 m               |
| Surface area          |        | 0.03 m <sup>2</sup> | 0.05 m <sup>2</sup> |  | 0.07 m <sup>2</sup> | 0.08 m <sup>2</sup> |
| Wind load at 160 km/h |        | 46 N                | 76 N                |  | 106 N               | 121 N               |
| Weight                | 0.5 kg | 1.5 kg              | 2 kg                |  | 2.4 kg              | 2.6 kg              |
| No. of boom parts     | 1      | 1                   | 2                   |  | 2                   | 3                   |