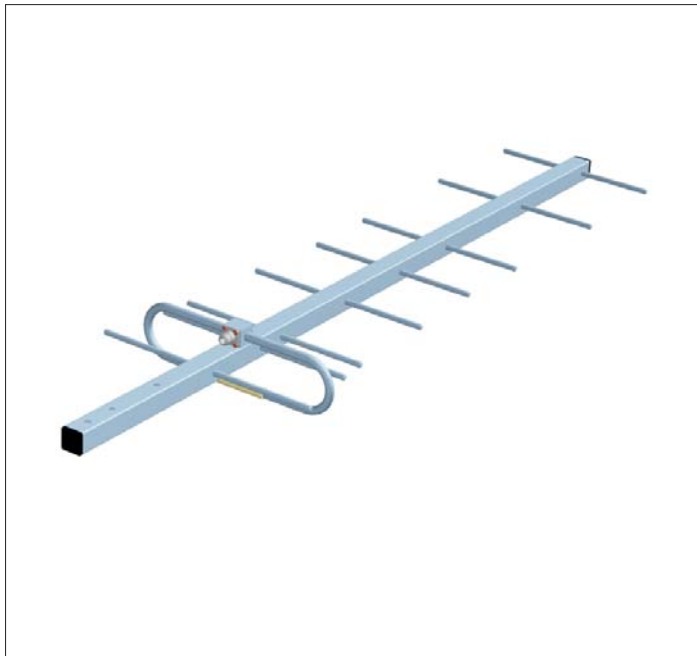




Directional Antennas

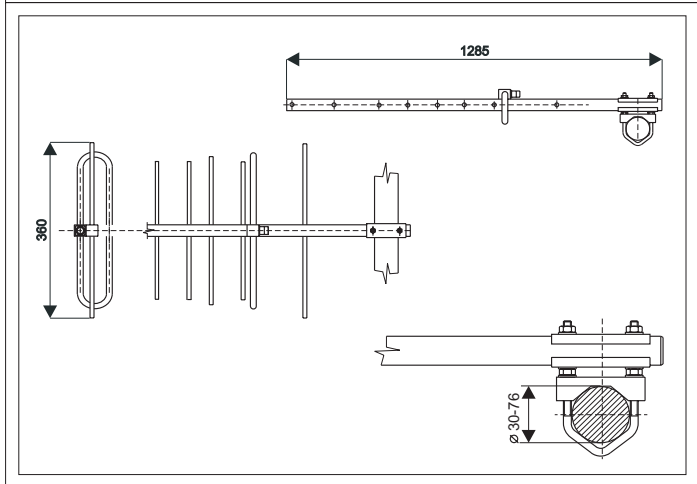
SA410.9



The antenna SA410.9 is designed for base radiostations working in bands of 400-470 MHz. It can be used for receiving and transmitting till 200 W. The antenna has a directional radiation pattern, is broadband and that is why it is suitable for duplex operations.

Constructionally it is designed as a nine-element YAGI, made of aluminium alloy and on the surface it is covered by polyester colour. During the lightning strike the antenna is protected by a galvanic connection with the tower. The wind resistance is 150 km/h.

The antenna is connected to the coaxial cable by the coaxial plug "N" type which is soled together with this antenna.



ELECTRICAL PARAMETERS

| | |
|--------------------------------|---|
| Frequency range [MHz] | 400-470 |
| Gain [dBd] | 8.0-10.6 |
| F/B ratio [dB] | min.18 |
| Radiation angle in E-plane [°] | 42-54 |
| Radiation angle in H-plane[°] | 48-68 |
| VSWR | <1.8 |
| Polarization | Vertical |
| Impedance [Ohm] | 50 |
| Max. Input power [W] | 200 |
| Antistatic protection | All metal parts DC-grounded (shows as DC-short) |

MECHANICAL PARAMETERS

| | |
|-------------------------------------|--|
| Connection | N female |
| Wind Surface/ with 15 mm icing [m²] | 0.060 / 0.188 |
| Wind Load/ with 15 mm icing [N] | 97 / 298 @ 150 km/h |
| Length Boom/Driver [mm] | 1285 / 324 |
| Weight [kg] | 1.5 |
| Mouting | Supplied with mast bracket suiting 30-76 mm dia.mast |

RADIATION PATTERNS

| | |
|---------|---------|
| E-plane | 022EA04 |
| H-plane | 026EA09 |

Radiation Patterns code is generated with VASSTOOL software

