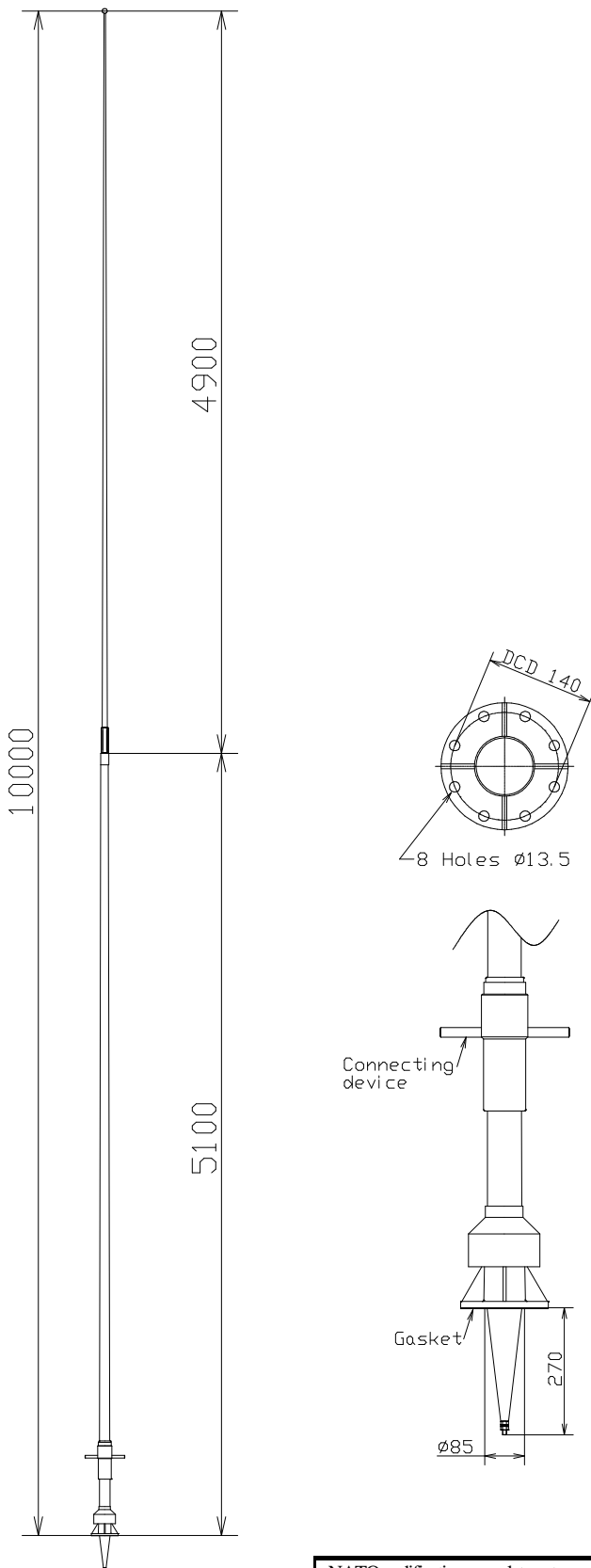


# COMROD AT100D/D

## 10 m HF Transmitting Antenna



### Application:

AT100D/D is a high quality fiberglass transmitting antenna mainly for maritime use in the MF and HF bands. The antenna is equivalent to the AT100 except that it is divided above the base. The main part of the antenna can then be removed without the use of tools. When the whip is removed a long wire antenna can be connected at the remaining part of the base.

### Electrical specifications:

Frequency range	1.6-30 MHz
Power rating	1.5 kW PEP
Impedance	See diagram on reverse side
Pattern	Omnidirectional
Polarization	Vertical
Electrical length	10 m (33 ft)

### Mechanical specifications:

Design	Self-supporting fiberglass rod with bronze and stainless steel armatures.
Height	10 m (33 ft)
Weight	23 kg
Sections	Base section: ATB50 20 kg
Wind rating	55 m/s = 125 mph
Moment of flexure	275 kpm at 55 m/s
Deflection due to wind load	5 m (16.7 ft) at tip ball at 55 m/s wind load
Finish	Polyurethane lacquer, gray
Temperature range	-55 °C, +71 °C; -67 °F, +160 °F
Optional	Side feed, see data sheet no. 06-6-006

### Mounting:

The AT100D/D is well suited for mounting on top of the radio cabin. If the feeding insulator is not long enough, extensions are available.

The flange holes are matched to M12 bolts. For more detailed mounting instructions, see installation drawing no. 06-6-009.

NATO codification complete antenna

5985-25-144-7485

Impedance at MF and HF  
Frequency in MHz, normal installation

Frequency (MHz)	Impedance AT100D
1.6	5-j1000
2.0	6-j600
3.0	10-j350
4.0	11-j200
6.0	24-j34
7.0	48+j57
8.0	80+j140
9.0	180+j275
11.0	750+j60
12.0	500-j350
13.0	250-j360
14.0	150-j300
16.0	70-j180
17.0	55-j135
22.0	200+j130
23.0	350+j60
25.0	275-j200
30.0	68-j52.5