STA 50 - 70 E, STA 50 - 70 E/EAU

Specification

Construction two-section rod antenna

self-supporting

Material Rods: glassfibre reinforced

polyester resin

Rod Coupling: brass screw joint Base Insulator: molded poly-

ester resin

RF connection N-system 50 Ohms

Colour light grey (similar to RAL 7035)

Length STA 50 E = approx. 5 m

STA 60 E = approx. 6 m STA 70 E = approx. 7 m

Weight STA 50 E = approx. 4.4 kg

STA 60 E = approx. 5.3 kgSTA 70 E = approx. 6.2 kg

Wind load max. 200 km/h

Environment resistant to marine environment,

none

e.g. seawater, exhaust gases, carbon disulphide, benzol, petrol, diesel, heavy oil, grease, trichlorethylene, hydrochloric and sulphuric acid, acetone

Icing insensitive

Formation of microbes

and mould

Damages by white ants none

Vertical Polarization

Robust Solid Glassfibre Rods

Sectional Assemblage Excellent Rigidity Low Weight Simple Mounting

Approved Installation Technique Screw Cap Insert with N-Socket N-Plug with Rubber Sleeve

Length * STA 50 E

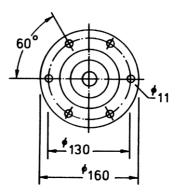
STA 50 E/EAU = 1035 mm

STA 60 E

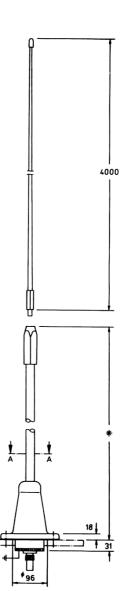
STA 60 E/EAU = 1955 mm

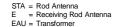
STA 70 E

STA 70 E/EAU = 2885 mm



Section A-A





K = Tilt TR = reinforced SE = Transmit Antenna SSB = internal feeding SSB/E = external feeding PM/M = dark grey (similar to RAL 7000)



STA 50 - 70 E/K, STA 50 - 70 E/K/EAU

Specification

Construction two-section rod antenna

self-supporting

Material Rods: glassfibre reinforced

polyester resin

Rod Coupling: brass screw joint Base Insulator: molded poly-

ester resin

RF connection N-system 50 Ohms

Colour light grey (similar to RAL 7035)

Length STA 50 E = approx. 5 m

STA 60 E = approx. 6 m STA 70 E = approx. 7 m

Weight STA 50 E = approx. 4.4 kg

STA 60 E = approx. 5.3 kgSTA 70 E = approx. 6.2 kg

Wind load max. 200 km/h

Environment resistant to marine environment,

e.g. seawater, exhaust gases, carbon disulphide, benzol, petrol, diesel, heavy oil, grease, trichlorethylene, hydrochloric and sulphuric acid, acetone

insensitive **Icing**

Formation of microbes

and mould

none Damages by white ants none

Vertical Polarization

Robust Solid Glassfibre Rods

Sectional Assemblage Excellent Rigidity Low Weight **Simple Mounting**

Approved Installation Technique Screw Cap Insert with N-Socket N-Plug with Rubber Sleeve

Length * STA 50 E/K

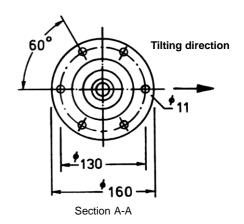
STA 50 E/K/EAU = 1155 mm

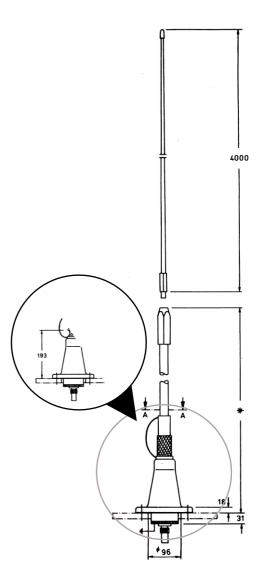
STA 60 E/K

STA 60 E/K/EAU = 2075 mm

STA 70 E/K

STA 70 E/K/EAU = 3005 mm





STA 50 - 70 E/TR, STA 50 - 70 E/TR/EAU

Specification

Construction two-section rod antenna

self-supporting

Material Rods: glassfibre reinforced

polyester resin

Rod Coupling: brass screw joint Base Insulator: molded poly-

ester resin

RF connection N-system 50 Ohms

Colour light grey (similar to RAL 7035)

STA 50 E = approx. 5 m Length

STA 60 E = approx. 6 m STA 70 E = approx. 7 m $^{\circ}$

STA 50 E = approx. 4.4 kgWeight

> STA 60 E = approx. 5.3 kgSTA 70 E = approx. 6.2 kg

Wind load max. 200 km/h

Environment resistant to marine environment,

> e.g. seawater, exhaust gases, carbon disulphide, benzol, petrol, diesel, heavy oil, grease, trichlorethylene, hydrochloric and sulphuric acid, acetone

insensitive **Icing**

Formation of microbes

and mould

none Damages by white ants none

Vertical Polarization

Robust Solid Glassfibre Rods

Sectional Assemblage Excellent Rigidity Low Weight **Simple Mounting**

Approved Installation Technique Screw Cap Insert with N-Socket N-Plug with Rubber Sleeve

Length * STA 50 E/TR

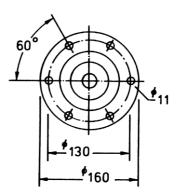
STA 50 E/TR/EAU = 1045 mm

STA 60 E/TR

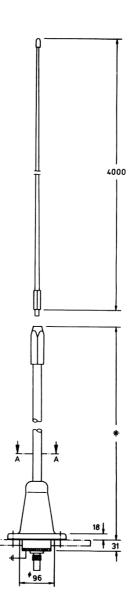
STA 60 E/TR/EAU = 1965 mm

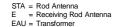
STA 70 E/TR

STA 70 E/TR/EAU = 2895 mm



Section A-A





= Tilt TR = reinforced SE = Transmit Antenna = internal feeding

SSB/E = external feeding PM/M = dark grey (similar to RAL 7000)



STA 50 - 70 E

Mounting Instructions

The antenna consists of two parts: the upper and the lower sections. The antenna must be assembled before installing. The brass fittings of both rods must be screwed together and shall be locked then by two fork wrenches, 30 mm and 22 mm size.

The base insulator of the antenna shall be screwed to a prepared counterflange. The flat gasket belonging to the delivery scope shall be used with all installations, because it serves not only as a sealing, but it also compensates unevenness on the counterflanges. The base insulator screws (use stainless steel, please) shall be fixed with an about 40 Nm tightening torque. A screw too much tightened may damage the base insulator flange.

Whenever possible, install the antenna in a sloping position (about five degrees to the vertical).

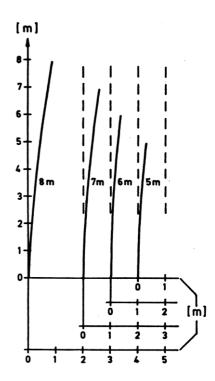
A pre-fabricated mounting support permits three different mounting attachments: welding to any kind of steel structure, screwing with bolts to vertical counter-parts, and round iron clamp fixing to vertical round tubes, diameters 51 to 63.5 mm.

TR-antennas shall be installed with about 20 degrees to the vertical in order to stabilize the antenna and to minimize rotation of the upper part of the antenna rod.

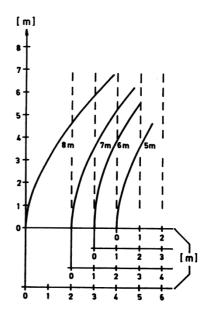
The mounting supports EAH 3/5, EAH 3/20 and EAH 2 are painted with a rust preventing primer.

When planning a new installation, please, take care that the supporting flange for the antenna is built in a sloping position of about 5 degrees (20 degrees with TR-version). In this way the rotary motion of the antenna is being reduced remarkably during pitching and heeling in heavy sea. Keep 3 meters distance to other parallel superstructures.

Deflection at wind 6 (Beaufort)

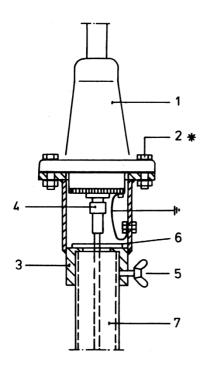


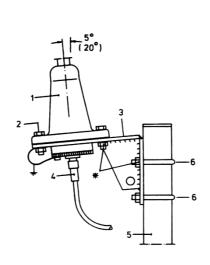
Deflection at wind 10



STA 50 - 70 E

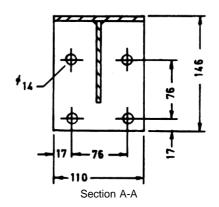
Mounting Proposal

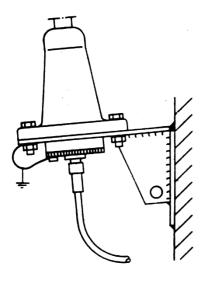


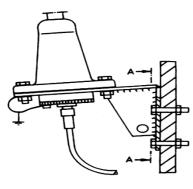


Antenna STA...

- 2 Hexagon screw M 10x45 DIN 933 (6x) Washer 10.5 DIN 125 (6x) Spring washer 10 DIN 127 (6x) Hexagon nut M 10 DIN 934 (6x)
- 3 Mounting support EAH 2
- 4 N-connection
- 5 Wing screw M 8x20 DIN 316 (3x)
- 6 Supporting plate
- 7 St-pipe Ø 60.3
- * Tightening torque $M_A = 40 \text{ Nm}$







Antenna STA...

- 2 Hexagon screw M 10x45 DIN 933 (6x) Washer 10.5 DIN 125 (6x) Spring washer 10 DIN 127 (6x) Hexagon nut M 10 DIN 934 (6x)
- 3 Mounting support EAH 3/5 (EAH 3/20)
- 4 N-connection
- 5 St-pipe Ø 51 Ø 63.5 DIN 2448/DIN 2458
- 6 U-bracket DN 50/M 12 DIN 3570
- * Tightening torque $M_A = 40 \text{ Nm}$

Delivery scope of item 3 insolves item 6.



STA 50 - 70 E

Description

The rod antennas STA 50 - 70 E are made for receiving. They are manufactured of solid glassfibre reinforced polyester. A copper strand is concentrically embedded into the antenna rods.

The antennas are made of two sections. Their upper rods are of the same standardized length for all antennas, whereas the different antenna heights are being made up by varying the lower section lengths. Screw fittings connect the lower and the upper sections, both mechanical and electrical. The lower rods are mounted on robust base insulators fabricated of glassfibre reinforced plastics. A junction insert containing the interconnection between the antenna radiator and the RF cable is screwed into the lower section's base insulator cavity. This screw insert may also contain a wideband matching transformer (upon request). The primary and the secondary of the wideband transformer are electrically insulated. The primary is grounded in order to discharge static load. An overload protector shunts the primary when the antenna picks up too high voltages.

The base insulator cavity is sealed waterproof by an O-ring in the screw insert cap. The cap also carries the N-connector socket for the RF cable. A key face of 24 mm on this socket shall help to keep the assembly fixed when undoing a corroded plug. A rubber sleeve for protection of the N-connector is included in the delivery. These types of receiving antennas are manufactured 5, 6, and 7 meters long.

Tiltable rod antennas STA .. E/K are shown above. The tilting joint is directly mounted above the base insulator. The special **reinforced** version are denoted STA .. E/TR. With the reinforced fixedend of the rod the antenna withstands also continuous and heavy rotary motion as it is often met on smaller boats (trawlers etc.).

Standard Supply

Antenna - consisting of top and lower sections, complete with screw insert, and

- 1 N-connector plug
- 1 rubber sleeve
- 1 flat gasket

Optional Accessories (upon request)

Designation	Order-Code
1Mounting support	E 107-127
EAH 2, for 2"-pipe	
2Mounting support	E 107-128
EAH 3/5, for 5° installation	
3 Mounting support	E 107-129
EAH 3/20, for 20° installation	
4 Mounting set MS 1	E 107-130
(stainless steel fitting material	
consisting of bolts, nuts and	
washers)	

Type Models

7 meters: 5 meters: 6 meters: Receive Antenna: Receive Antenna: Receive Antenna: STA 50 E STA 60 E STA 70 E with transformer: with transformer: with transformer: STA 50 E/EAU STA 70 E/EAU STA 60 E/EAU with tilt. with tilt. with tilt. STA 50 E/K STA 60 E/K STA 70 E/K with tilt and transformer: with tilt and transformer: with tilt and transformer: STA 70 E/K/EAU STA 50 E/K/EAU STA 60 E/K/EAU reinforced model: reinforced model: reinforced model: STA 50 E/TR STA 60 E/TR STA 70 E/TR reinforced model reinforced model reinforced model with transformer: with transformer: with transformer: STA 50 E/TR/EAU STA 60 E/TR/EAU STA 70 E/TR/EAU

Empfangsantennen / ROD Antennas

STA 30 - 50 R / STA 30 - 50 R/EAU

Features

Solid glassfibre reinforced polyester rod antenna (unnotched specimen) of 3 m and 5 m length with passivated cast aluminium antenna base (bichromate finish as per MIL-C-5541).

Meets all climatic environmental conditions in the temperature range of -40° to +60° C and wind speed of 200 km/h.

Application

STA 30 R / STA 50 R receiving antenna

STA 30 R/EAU / STA 50 R/EAU

receiving antenna with wide band symmetrical matching (all bands up to 30 MHz; e.g. autoalarm, safety receivers, yacht receivers, etc.)

Specification

Length

STA 30 R/... = approx. 2890 mm

STA 50 R/EAU = approx. 4890 mm

Insulation resistance Overload protection

Polarization

Horizontal pattern

Cable connection

Cable diameter screen diameter

> 10⁶ Ohm

90 V vertical

vertical

omnidirectional

screw terminal standard marine

valve cone PG11 (IP65)

10 – 11 mm

7 - 8 mm

Primary winding with overload protection electrically separated from

secondary winding.

Easy mounting to all kind of superstructures incl. supporting pipes with 60.3 mm Ø. For installation proposals, please, see overleaf.

NDB = Non Directional Radio Beacon

13 ^ø

STA = Rod Antenna E = Receiving Rod Antenna EAU = Transformer

K = Tilt

TR = reinforced

SE = Transmit Antenna

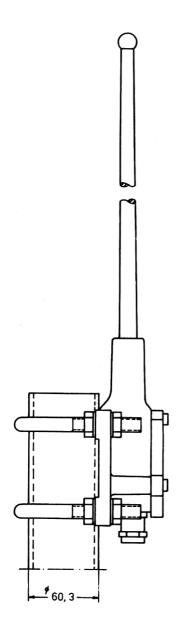
SSB = internal feeding SSB/E = external feeding PM/M = dark grey (similar to RAL 7000)

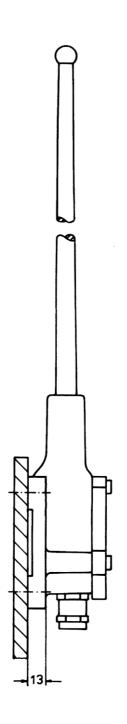


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STA 30 - 50 R/STA 30 - 50 R/EAU

Recommended Installation Methods





- with round iron straps "U-brackets" (included in our standard delivery scope) -

ELNA reserves the right to make changes in specifications without notice.

STA 50 - 70 SE

Specification

Construction two-section rod antenna

self-supporting

Material Rods: glassfibre reinforced

polyester resin

Rod Coupling: brass screw joint Base Insulator: molded poly-

ester resin

RF connection copper screw terminal

Colour light grey (similar to RAL 7035) STA 50 SE = approx. 5 m Length

STA 60 SE = approx. 6 m STA 70 SE = approx. 7 m

STA 50 SE = approx. 4.4 kgWeight

STA 60 SE = approx. 5.3 kg STA 70 SE = approx. 6.2 kg

Wind load max. 200 km/h

Environment resistant to marine environment,

> e.g. seawater, exhaust gases, carbon disulphide, benzol, petrol, diesel, heavy oil, grease, trichlorethylene, hydrochloric and sulphuric acid, acetone

Icing insensitive

Formation of microbes

and mould

none Damages by white ants none

> 1.5 ... 30 MHz **Vertical Polarization Omnidirectional Pattern** Up to 1000 Watt HF Power **Robust Solid Glassfibre Rods**

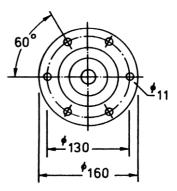
Excellent Rigidity Sectional Assemblage

Low Weight **Simple Mounting**

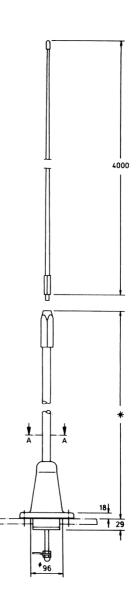
Approved Installation Technique Resistive to Sea Environment

Length * STA 50 SE = 1035 mm

> STA 60 SE = 1955 mm STA 70 SE = 2885 mm



Section A-A





= Tilt TR = reinforced SE = Transmit Antenna = internal feeding

SSB/E = external feeding PM/M = dark grey (similar to RAL 7000)



STA 50 - 70 SE/K

Specification

Construction two-section rod antenna

self-supporting

Material Rods: glassfibre reinforced

polyester resin

Rod Coupling: brass screw joint Base Insulator: moulded poly-

ester resin

RF connection copper screw terminal

Colour light grey (similar to RAL 7035) **Length** STA 50 SE = approx. 5 m

STA 60 SE = approx. 6 m STA 70 SE = approx. 7 m

Weight STA 50 SE = approx. 4.4 kg

STA 60 SE = approx. 5.3 kg STA 70 SE = approx. 6.2 kg

Wind load max. 200 km/h

Environment resistant to marine environment,

e.g. seawater, exhaust gases, carbon disulphide, benzol, petrol, diesel, heavy oil, grease, trichlorethylene, hydrochloric and sulphuric acid, acetone

Icing insensitive

Formation of microbes

and mould

Damages by white ants none

1.5 ... 30 MHZ

none

Vertical Polarization
Omnidirectional Pattern
Up to 1000 Watt HF Power
Robust Solid Glassfibre Rods

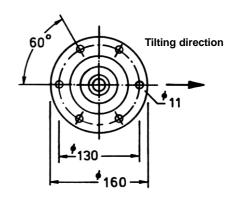
Excellent Rigidity
Sectional Assemblage

Low Weight Simple Mounting

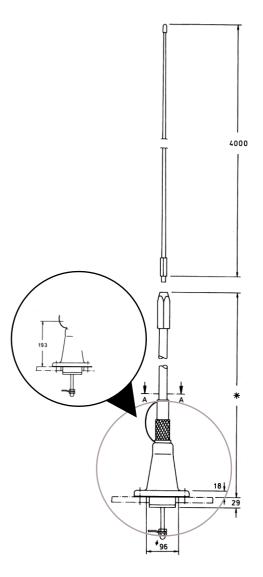
Approved Installation Technique Resistive to Sea Environment

Length * STA 50 SE/K = 1155 mm

STA 60 SE/K = 2075 mm STA 70 SE/K = 3005 mm



Section A-A



STA 50 - 70 SE/TR

Specification

Construction two-section rod antenna

self-supporting

Material Rods: glassfibre reinforced

polyester resin

Rod Coupling: brass screw joint Base Insulator: moulded poly-

ester resin

RF connection copper screw terminal

Colour light grey (similar to RAL 7035) Length

STA 50 SE = approx. 5 m STA 60 SE = approx. 6 m STA 70 SE = approx. 7 m

STA 50 SE = approx. 4.4 kgWeight

STA 60 SE = approx. 5.3 kg STA 70 SE = approx. 6.2 kg

Wind load max. 200 km/h

Environment resistant to marine environment,

> e.g. seawater, exhaust gases, carbon disulphide, benzol, petrol, diesel, heavy oil, grease, trichlorethylene, hydrochloric and sulphuric acid, acetone

Icing insensitive

Formation of microbes

and mould

none Damages by white ants none

> 1.5 ... 30 MHZ **Vertical Polarization Omnidirectional Pattern** Up to 1000 Watt HF Power **Robust Solid Glassfibre Rods**

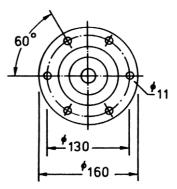
Excellent Rigidity Sectional Assemblage

Low Weight **Simple Mounting**

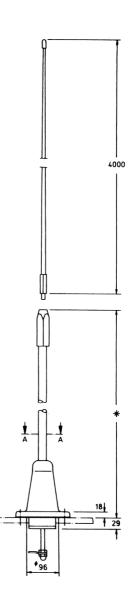
Approved Installation Technique Resistive to Sea Environment

Length * STA 50 SE/TR = 1045 mm

> STA 60 SE/TR = 1965 mm STA 70 SE/TR = 2895 mm



Section A-A







STA 50 - 70 SE

Mounting Instructions

The antenna consists of two parts: the upper and the lower sections. The antenna must be assembled before installing. The brass fittings of both rods must be screwed together and shall be locked then by two fork wrenches, 30 mm and 22 mm size.

The base insulator of the antenna shall be screwed to a prepared counterflange. The flat gasket belonging to the delivery scope shall be used with all installations, because it serves not only as a sealing, but it also compensates unevenness on the counterflanges.

The base insulator screws (use stainless steel, please) shall be fixed with an about 40 Nm tightening torque. A screw too much tightened may damage the base insulator flange.

Whenever possible, install the antenna in a sloping position (about five degrees to the vertical).

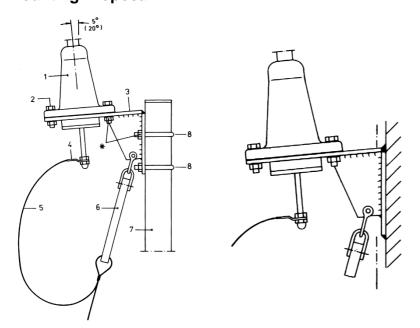
A pre-fabricated mounting support permits three different mounting attachments: welding to any kind of steel structure, screwing with bolts to vertical counter-parts, and round iron clamp fixing to vertical round tubes, diameters 51 to 63.5 mm.

TR-antennas shall be installed with about 20 degrees to the vertical in order to stabilize the antenna and to minimize rotation of the upper part of the antenna rod.

The mounting supports EAH 3/5, EAH 3/20 are painted with a rust preventing primer.

When planning a new installation, please, take care that the supporting flange for the antenna is built in a sloping position of about 5 degrees (20 degrees with TR-version). In this way the rotary motion of the antenna is being reduced remarkably during pitching and heeling in heavy sea. Keep 3 meters distance to other parallel superstructures.

Mounting Proposal



ELNA reserves the right to make changes in specifications without notice.

- 1 Antenna STA...
- 2 Hexagon screw M 10x45 DIN 933 (6x) Washer 10.5 DIN 125 (6x) Spring washer 10 DIN 127 (6x) Hexagon nut M 10 DIN 934 (6x)
- 3 Mounting support EAH 3/5 (EAH 3/20)
- 4 Terminal 10
- 5 Stranded wire 7x7x0.5
- 6 Strain isolator RH 200
- 7 St-pipe Ø 51 Ø 63.5 DIN 2448/DIN 2458
- 8 U-bracket DN 50/M 12 DIN 3570
- * **Tightening** torque M_A = 40 Nm

Delivery scope of item 3 includes item 8.

STA 50 - 70 SE

Description

The rod antennas STA 50 - 70 SE are made for transmitting and receiving. They are mainly used for low power radio stations.

The SE-antennas are manufactured of solid glassfibre polyester rods, into which a copper strand is concentrically embedded. They are made of two sections. Their upper rods are of the same standardized length for all antennas, whereas the different antenna heights are being made up by varying the lower section lengths. Screw fittings connect the lower and the upper sections, both mechanical and electrical. The lower rods are mounted on robust base insulators fabricated of glassfibre reinforced plastics. The base injected insulator is equipped with a strong brass connector rod to which the antenna lead cable is connected with a copper screw terminal. A dry zone in the injection area at the bottom of the base insulator provides high insulation values. The connector rod leads through a water protected cavity into the base insulator before being connected to the radiator in the lower rod.

These antenna types are manufactured at lengths of 5, 6 and 7 meters. Other lengths, however, can be engineered upon request. The antennas are coloured light grey. By using new molding com- pounds and resins an excellent surface and rigidity of all parts is accomplished.

Tiltable rod antennas corresponding to the versions STA.. SE/K are available as well. The tilting joint is directly mounted above the base insulator.

The special reinforced version STA .. SE/TR features a reinforced fixed-end of the rod the antenna which withstands also continuous and heavy rotary motion as it is often met on smaller boats (trawlers, etc.).

Standard Supply

Antenna - consisting of top and lower sections, complete with screw insert, and 1 gasket.

Optional Accessories (upon request)

Designation		Order-Code
1	Mounting support	E 107-128
	EAH 3/5, for 5° installation	
2	Mounting support	E 107-129
	EAH 3/20, for 20° installation	
3	Mounting set MS 1	E 107-130
	(stainless steel fitting material	
	consisting of bolts, nuts and	
	washers)	

Camping cone (instead of screw terminal)

Matching transformer EAU VA

Matching transformer EAU 60/240

Type Models

5 meters:

Transmit Antenna: STA 50 SE with tilt:

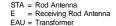
STA 50 SE/K reinforced model:

STA 50 SE/TR

6 meters:

Transmit Antenna: STA 60 SE with tilt: STA 60 SE/K reinforced model: STA 60 SE/TR 7 meters:

Transmit Antenna: STA 70 SE with tilt: STA 70 SE/K reinforced model: STA 70 SE/TR



K = Tilt TR = reinforced SE = Transmit Antenna SSB = internal feeding SSB/E = external feeding PM/M = dark grey (similar to RAL 7000)



Sende-/Empfangsantennen/Transmitting Receiving ROD Antennas

STA 80 SSB, STA 80 SSB/E

Application

The rod antenna STA 80 SSB resp. STA 80 SSB/E is a self-supporting TX / RX antenna for radio communication use. It consists of a c. 3 m long top rod (pos. 1) and a c. 5 m long lower section (pos. 4). The mechanical / electrical overall length of c. 8 m in combination with an antenna matching unit is usually sufficient to cover the frequency range from 1.5 to 22 MHz required by the marine radio service. For receiving purposes the antenna can be operated within an extended frequency range from 0.1 to 30 MHz.

The antenna elements made of glassfibre reinforced plastic are equipped with brass armatures. The antenna has a cast aluminum base.

As the antenna is very reliable, light, and nearly maintenance-free, it meets all requirements on board of vessels. The antenna feeder is fixed to a cable terminal (pos. 6), which may be replaced by a clamping cone (part of accessory set).

The feeder of the STA 80 SSB/E is supported by an eye-bolt and is also fastened at a cable terminal.

Specification

Construction self-supporting rod antenna **Frequency range** (transmit) 1.5 – 30 MHz

(receive) 0.1 - 30 MHz

 $\begin{array}{lll} \textbf{Polarization} & \textbf{vertical} \\ \textbf{Horizontal diagram} & \textbf{circular} \\ \textbf{Isolation resistance} & >10 \ \text{M}\Omega \\ \textbf{Permissible base voltage} & 22 \text{kV} \\ \textbf{Permissible rated power} & 1.2 \ \text{kW} \end{array}$

of transmitter

Static capacity c. 83 pF

Operation temperature -40 ... + 70° C

Storage temperature -50 ... + 70° C

Relative humidity 100 %

Overall length *** 7789 ± 20 mm

Weight c. 8.4 kg

Colour similar to RAL 7035

Max. permissible wind load 200 km/h
Bending moment at 110 daNm **

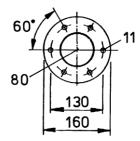
antenna base

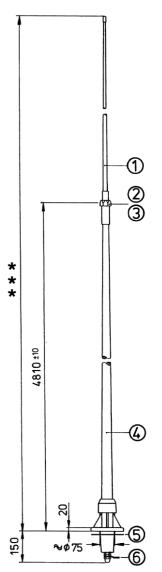
Deflection2750 mm **Mounting flangecast aluminium

dimensions as per drawing

Connection cable terminal or clamping cone

6 mm resp.





- * with tuning unit Q = 300 r_{earth} = 3Ω
- ** with 150 km/h wind and 8 m/s² acceleration (ship movement)

STA = Rod Antenna E = Receiving Rod Antenna EAU = Transformer K = Tilt TR = reinforced SE = Transmit Antenna SSB = internal feeding SSB/E = external feeding PM/M = dark grey (similar to RAL 7000)



Sende-/Empfangsantennen/Transmitting Receiving ROD Antennas

STA 80 SSB, STA 80 SSB/E

Mounting

The rod antenna shall be installed high and free standing and shall not be obstructed by other metallic conductive constructions. The installation place is to be stipulated in consideration of deflection, permissible ambient temperature, and accessibility of connection. The STA 80 SSB/E may be screwed directly onto the mounting construction.

The installation of the STA 80 SSB requires a bore hole of c. Ø 80 mm for the insulator (see drawing STA 80 SSB). Mounting material is not included in the delivery scope.

Appropriate mounting material:

Hexagon screws M 10 DIN 933-8.8 Washers 10.5 DIN 1 25-St

Installation Instructions

Both sections (pos. 1 and pos. 4) are to be assembled and screwed together before erecting the antenna. The locking nut (pos. 2/head width 46 mm) must be fastened with a tightening torque of 180 Nm. The antenna may be mounted once the supplied flat gasket (pos. 5) has been put between antenna base and supporting area. The flat gasket seals the deck duct (with internal feeding), balances unevenness of the mounting place, and opposes to corrosion resulting from contact among different materials. The fixing screws must be fastened with a tightening torque of 20 Nm.

Maintenance and Service Instructions

Maintenance:

The lower area of the antenna mast shall be checked for pollution and salt deposits from time to time. The antenna is to be cleaned by using sweet water. In case of heavy oily contamination, soft cleaners (detergents) may be added.

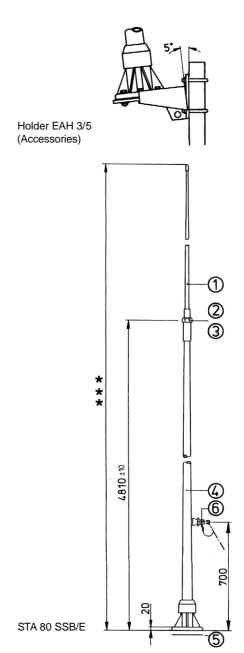
Servicing:

The antenna STA 80 ... requires almost no servicing. The fixing bolts of the antenna base, the locking nut of the top rod, and the RF connection should be yearly checked for tight fastening.

CAUTION: The antenna's plastic mast must not be painted!

Spare Parts List

Position	Designation	Order-Code
1 (incl. pos. 3)	Antenna rod STA 30 HV	E 107-135
2	Locking nut 2	E 107-350
3	O-Ring 1	E 107-351
4 (incl. pos. 5+6)	Lower section US 50 SSB	E 107-123
4 (incl. pos. 5)	Lower section US 50 SSB/E	E 107-124
5	Flat gasket 7	E 107-352
6	Cable terminal	E 107-206
6 alternatively	Clamping cone (SSB only)	E 107-353



Accessories

The holders **EAH 3/5** (see drawing) and **EAH 3/20** are available for installation. These holders enable mounting of the internally as well as externally fed antenna with a sloping position of **5°** resp. **20°** on a 2"-pipe (outside Ø 60.3 mm) or at a wall. The required mounting material for the holder/antenna is included in the delivery scope of the holder.