# HUBER+SUHNER<sup>®</sup> SENCITY<sup>®</sup>ROAD ANTENNA



# FOR WIRELESS COMMUNICATION

# Mounting Instruction



Keep away from catenary and high voltage lines. Be careful when working at height! Always secure ladders! Always tighten screws!



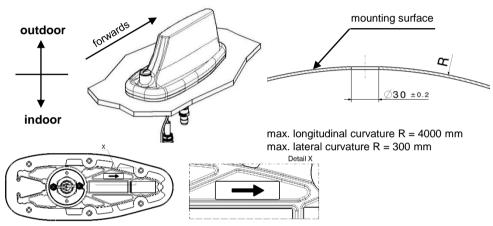
Caution! ESD (electrostatic discharge) sensitive device. Always ground yourself while handling the GPS connector. For more information, see the Security Instruction for this product on the HUBER+SUHNER website.





Avoid bringing the cover of the antenna into contact with acetone, gasoline or oil.

## **Mounting surface**



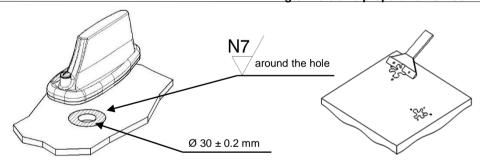
The area of the roof where the antenna will be mounted has to be stable and preferably flat.

Roof thickness: 0.9 mm to 8 mm

NOTE: If you wish to attach a monopole stick antenna and the roof is plastic, remember to allow sufficient space inside vehicle for the metal ground plane (see below).

The arrow indicates the recommended mounting direction.

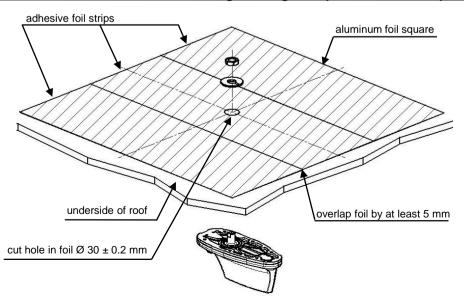
#### Drilling of hole and preparation of roof



Drill the mounting hole.

Clear the area around the hole from any corrosion, roughness, grease, oil, swarf or dust.

## Providing a metal ground plane underneath a plastic roof



Please check on the datasheet of the product, what size of metal ground plane is required (Note, the foil can only be used together with the antenna, if foil is listed under related products).

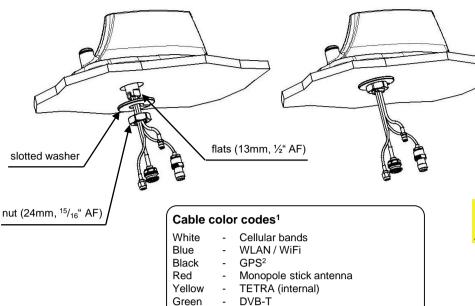
Adhesive aluminium foil can be used to create a square ground plane on the inner surface of a plastic roof.

Adhesive foil strips are available from HUBER+SUHNER as an accessory.

Ensure the inner roof surface is clean and dry.

Once the foil has been applied, cut a hole as shown, matching the hole in the roof.

Cut the foil so that it is square and the hole is in the centre of the square.



**Connector torques** 

SMA TNC 1.0 Nm

0.6 Nm

might be different for customized products

Inner conductor: 3..5 V. Outer conductor: GND.

<sup>1</sup> Not all cables are present on some models. Colors

Loosen the nut from the shaft.

Remove the slotted washer.

Pass the cables through the hole.

Replace the slotted washer with stepped face towards hole.

Fasten the nut. Torque:  $15 \pm 2$  Nm.

Use the flats on the antenna shaft to prevent the antenna from rotating while fastening.

rastening

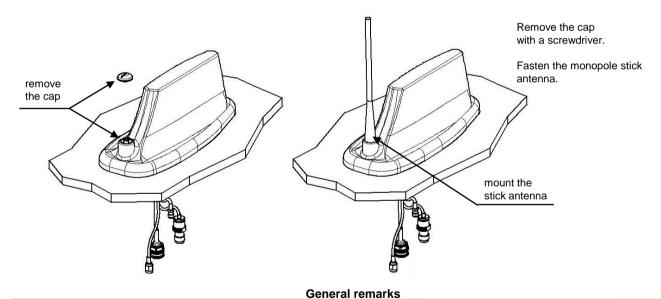
Connect the cables. **Take ESD precautions!** Use cable holders to avoid tension on the connectors.

The cables can be recessed into the slot in the shaft to minimize installation depth.

Cable minimum bending radius: 5mm (static).

Unused connectors must be terminated.

## Attachment of a monopole stick antenna (if required)



In the final position of the antenna, the draining hole and the connectors need to be protected against environmental impacts (indoor environment). Otherwise a cable conduit has to be used.

This product can be returned to HUBER+SUHNER for recycling at the end of its useful life. Please contact your local agent.

HUBER+SUHNER is certified according to ISO 9001 and ISO 14001

#### WAIVER

It is exclusively in written agreements that we provide our customers with warrants and representations as to the technical contained specifications and/or the fitness for any particular purpose. The facts and figures herein are carefully compiled to the best of our knowledge, but they are intended for general informational purposes only.

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