



## Mounting Note

### Over Voltage Protector BAT-ANT-Protector m-f

#### ■ Safety instructions



## WARNING

### **ELECTRIC SHOCK OR FALLING**

Avoid mounting the antenna near power lines.

When installing an antenna from a ladder or elevating equipment, take precautions to avoid falling and ensure the equipment is securely positioned on solid ground.

**Failure to follow these instructions can result in death, serious injury, or equipment damage.**

- Only qualified personnel are permitted to install the device in accordance with the relevant national installation and safety rules. Its usage is only permitted under the conditions stated and shown in this instruction.
- The data line protector and the equipment connected to it can be destroyed by EM surges exceeding the given specification, e.g. due to a direct lightning strike.
- The operational voltage of the system/equipment to be protected must not exceed the maximum permissible operating voltage (rated voltage) of the data line protector.
- Disconnect or switch off inline equipment when installing or removing the protector.
- Do not open the protector. Opening the data line protector will void the warranty and may result in the accidental destruction of electronic components.

## ■ General instructions

If exposed to extreme environmental conditions, especially icy conditions or a polluted atmosphere, the connectors should be covered with a self-vulcanizing tape or a cold shrink tube.

If the BAT-ANT-Protector m-f is mated with connectors made of copper-alloy base material and trimetal or nickel plating the connector area must be taped to improve long-term durability.

## ■ Disclaimer

All pertinent country, state, regional, and local safety regulations must be observed when installing and using this product. For reasons of safety and to help ensure compliance with documented system data, only the manufacturer should perform repairs to components. This equipment must only be installed and serviced by qualified personnel.

## ■ Device description

The BAT-ANT-Protector m-f is recommended for protecting the interior electronics of BAT devices with outdoor antennas.

Despite outer over voltage protection measures, partial discharges can still cause over voltages that can damage BAT devices. The BAT-ANT-Protector m-f should be mounted as close as possible to the BAT device.

## ■ BAT-ANT-Protector m-f connectors

The BAT-ANT-Protector m-f provides two connectors, one for connecting to the access point and one for connecting to the antenna (see fig. 1).



Figure 1: *BAT-ANT-Protector m-f connectors*

1 - N socket for connection to the antenna (unprotected end)

2 - N plug for connection to the access point (protected end marked in red)

■ Connecting to the access point

To connect the BAT-ANT-Protector m-f to the access point proceed as follows:

- Connect one end of the adapter cable supplied with the antenna to the N plug of the BAT-ANT-Protector m-f.
- Connect the other end of the adapter cable to the antenna output of the access point.

**Note:** Depending on the type, you can connect the BAT-ANT-Protector m-f directly to the antenna output of the access point. In this case you do not need an adapter cable.

■ Connecting to the antenna

To connect the BAT-ANT-Protector m-f to the antenna proceed as follows:

- Connect one end of the antenna cable to the N socket of the BAT-ANT-Protector m-f.
- Connect the other end of the antenna cable to the antenna input.

**Note:** Depending on the connector type, you may require an adapter or an adapter cable.

■ Grounding the BAT-ANT-Protector m-f

Ground the BAT-ANT-Protector m-f appropriately according to all national, state and local regulations to ensure that any overvoltages can be conducted away from the device to the building's earthing system.

- Fix a cable lug with a nut as shown in [fig. 2](#).

**Note:** Use a sufficiently sized grounding cable (min. 16 mm<sup>2</sup> or 0.02 in<sup>2</sup> / AWG 6) as short a distance as possible (max. 0.5 m or 19.69 in).



Figure 2: Grounding the BAT-ANT-Protector m-f

