## FAQ - External antennas - output power / cable loss

Valid for: N610 N670 N870 N870E Embedded Integrator Virtual Integrator Introduction The Effective radiated power from an Gigaset N870E with the Gigaset delivered Antennas (3dB) is compliant with the German / European regulations for the DECT radiated power. Check your own country regulations. 3dB Gain must be <= 3dB When using an external antenna, the formula Antenna gain - cable loss <= 3dB is still valid. Reduce power with 5 dB 8 dB Gain must be <= 3dB, 5dB power reduction is needed We need to reduce the power with 5dB to match the European regulations. Cable dB gain loss The cable loss depends on:

- Cable typeCable LengthCable diameter

## Examples:

Туре	Diameter	Loss
RG223	5.4 mm	Loss/100m: 60 dB
RG174/U	2.8 mm	Loss/100m: 142dB
Aircell 5	5 mm	Loss/100m: 45 dB
Aircell 7	7 mm	Loss/100m: 21 dB
Ecoflex 15	15 mm	Loss/100m: 16 dB

## Example:

Using 5 meter RG223 cable = 3 dB loss

Antenna gain - cable loss <= 3dB

8 dB - 3 dB = 5 dB is still 2 dB to high.

The signal strength can be further reduced by external hardware or by the system: FAQ - Base stations Edit