

Elacin BoomMic

In noisy environments, hearing protection often is an obstacle when being used in combination with any means of communication such as a telephone. Incoming calls are often not heard and when they are, hearing protection is usually a hindrance during a conversation. Result: the user removes the hearing protection and thereby the protection is nullified.

To solve this problem, the SafeSound • SoloCom-concept was developed, to which a means of communication can be connected, for instance a mobile phone. This feature ensures a user would not miss incoming calls and would be able to have a conversation without removing the hearing protector. This provides uninterrupted hearing protection.

The Elacin BoomMic is equipped with a 'noise-cancelling' boom microphone. This microphone is positioned near the user's mouth, through which background noise is reduced so that speech can be more easily understood. It is also equipped with a pushbutton, connected to electronic circuitry. This configuration ensures impedance adaptation and radio screening. It also protects the user against extreme sound levels that could be produced by the communication device itself (with the exception of the non switch (NS) version).

The Elacin BoomMic is available in two versions:

- Elacin BoomMic Telephone (TP)
- Elacin BoomMic Radiophone (RP)

The Elacin BoomMic Telephone or Radiophone connects to either a two-way radio, a mobile or a DECT phone. It is equipped with a pushbutton that allows the user to accept or interrupt a conversation. The pushbutton feature is not available for the Elacin BoomMic Telephone NS or Radiophone NS. The act of accepting or interrupting a conversation is done instead via the communication device.

Noise filter

Just as the Elacin SoloCom, the Elacin BoomMic is also equipped with a special noise filter in the housing. There are four filter combinations for attenuating the ambient noise level – in combination with the SafeSound product. These filters prevent over attenuation while maintaining speech intelligibility. Moreover they ensure good auditory duct ventilation, which prevents the user from feeling cut-off from his/her environment.

Suitable for use in

The Elacin BoomMic is designed to provide maximum communication in work related (crisis)situations. E.g. in industrial environments, construction, assembly and carpentry companies, shipyards, emergency services and security.



Application of use

- In an environment with high noise levels where hearing protection is essential.
- Safe communication in the workplace, without having to take the hearing protection out of the ear.
- Access to wireless communication in a noisy (work) environment.

Suitable for

- Industrial environments
- Building, assembly and carpentry industries
- Shipyards

Benefits

- Can be combined with cell phone, DECT or two-way radio
- Suitable in situations where mobility is required
- Equipped with a noise-cancelling boom microphone
- Optimal speech intelligibility (for the sender and the receiver), thanks to reduced background noise
- Prevents over attenuation
- Prevents feeling of being cut-off from one's environment
- Continues auditory canal ventilation
- Wide selection of filters based on noise levels
- Can be worn on either left or right ear
- No need to remove hearing protectors during communication
- Changes from hearing protector to communication device in a single action
- Perfect fit for prolonged use
- Optionally available with metal security bearing and metal shirt clip (e.g. for food industry).

Attenuation values (EN352-2)

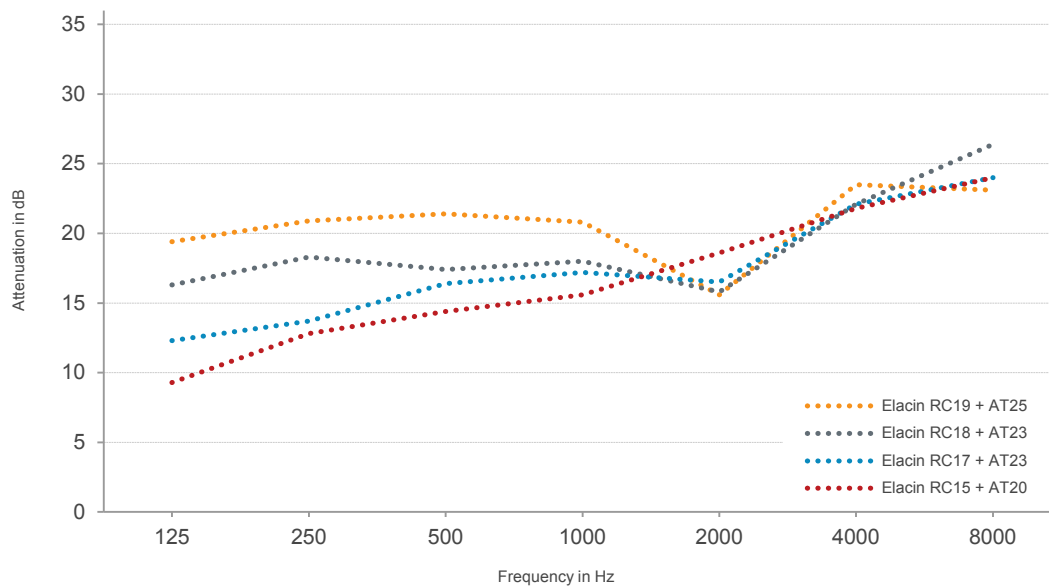
f in Hz		125	250	500	1000	2000	4000	8000	H	M	L	SNR
APVf [dB]	Elacin RC19 + AT25	19,4	20,9	21,4	20,8	15,6	23,5	23,1	18	19	20	21
	Elacin RC18 + AT23	16,3	18,3	17,4	18,0	15,8	22,1	26,4	18	18	18	20
	Elacin RC17 + AT23	12,3	13,7	16,4	17,2	16,5	22,1	24,0	19	17	15	20
	Elacin RC15 + AT20	9,3	12,8	14,4	15,6	18,6	21,8	24,0	20	16	14	19

f in Hz		125	250	500	1000	2000	4000	8000
Mf [dB]	Elacin RC19 + AT25	23,2	23,3	24,0	23,3	20,1	26,1	29,4
	Elacin RC18 + AT23	19,4	20,6	20,7	20,4	20,0	26,8	31,0
	Elacin RC17 + AT23	14,5	15,9	18,9	19,3	19,9	25,3	31,4
	Elacin RC15 + AT20	12,6	14,5	17,1	18,3	22,1	26,1	27,5

f in Hz		125	250	500	1000	2000	4000	8000
Sf [dB]	Elacin RC19 + AT25	3,8	2,4	2,6	2,5	4,5	2,6	6,3
	Elacin RC18 + AT23	3,1	2,3	3,3	2,4	4,2	4,7	4,6
	Elacin RC17 + AT23	2,2	2,2	2,5	2,1	3,4	3,2	5,4
	Elacin RC15 + AT20	3,3	1,7	2,7	2,7	3,5	4,3	3,5

Attenuation curve

Elacin BoomMic



Technical specifications

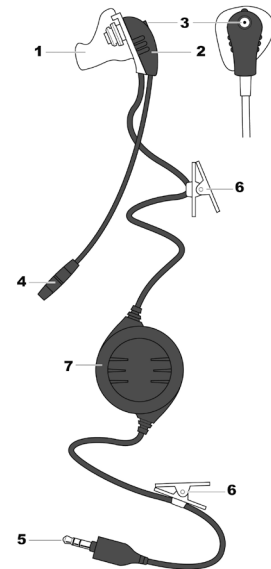
1. SafeSound hearing protector
2. BoomMic
3. Sound filter
4. Boom microphone
5. Connector
6. Shirt clip
7. Push button (not applicable for the TP version)

Elacin SoloCom Telephone (TP)

Equipped with a speaker and microphone for connection to a mobile telephone or DECT.

Elacin SoloCom Radiophone (RP)

Equipped with a speaker for connection to a handset / PTT unit.



Electrical data (EN352-6)

Elacin BoomMic TP & TP NS | Sound level as function of input signal

Elacin BoomMic TP & NS					
Input [mV]	2,6	4,6	7,9	9,9	14
Output [dB(A)]	70	75	80	82	85

Elacin BoomMic RP | Sound level as function of input signal

Elacin BoomMic RP					
Input [mV]	34	61	108	135	191
Output [dB(A)]	70	75	80	82	85

Elacin BoomMic RP NS | Sound level as function of input signal

Elacin BoomMic RP					
Input [mV]	12	21	37	46	66
Output [dB(A)]	70	75	80	82	85