

# 3M™ E-A-R™ Caboflex™ Banded Earplugs

## Technical datasheet



### Product description

The 3M™ E-A-R™ Caboflex™ banded earplugs are fitted with conical shape ear tips designed to seal the ear canal to help reduce exposure to harmful levels of noise. The 3M™ E-A-R™ Caboflex™ earplugs are approved for use in under-the-chin (U-T-C) and behind-the-head (B-T-H) wearing modes.

These earplugs may be used for protection against low to moderate noise environments, providing effective protection against all test frequencies. Please refer to the attenuation table for further details.

### Key features

- ▶ SNR 21 dB (B-T-H) and SNR 22 dB (U-T-C)
- ▶ A lightweight alternative to earmuffs (mass = 12 g)
- ▶ The flexible band is worn under the chin or behind the head, which helps compatibility with other PPE such as safety helmets
- ▶ Ideal for intermittent wear, the band can be easily stored around the neck when not in use
- ▶ Flexible and durable band that can be washed and reused multiple times
- ▶ Conical soft foam shaped eartips to provide a good acoustic seal and improved comfort
- ▶ Pivoting tips can be adjusted for a more comfortable fit
- ▶ Replacement eartips are available (CS-01-000)

### Standard and approval:

This product is in compliance with appropriate Directives or Regulations to fulfill the requirements for the CE and/or UKCA marking.

The full text of the Declaration of Conformity is available at the following internet address: [www.3M.com/hearing/certs](http://www.3M.com/hearing/certs).

### Materials

Band	Polycarbonate
Ear tips	PVC foam with silicone rubber cover

### Important notice

**Product Selection and Use:** Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. As a result, customer is solely responsible for evaluating the product and determining whether it is appropriate and suitable for customer's application, including conducting a workplace hazard assessment and reviewing all applicable national and/or European regulations and standards. Failure to properly evaluate, select, and use a 3M product in accordance with all applicable instructions and with appropriate safety equipment, or to meet all applicable safety regulations, may result in injury, sickness, death, and/or harm to property.

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3M industrial and occupational products are intended, labeled, and packaged for sale to trained industrial and occupational customers for workplace use.

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### Nominal Size Range

Smallest fitted: 7 mm

Largest fitted: 14 mm

### Head Size Range

S/M/L



### Attenuation values Behind the Head (B-T-H) wearing mode

	Frequency (Hz) <i>f</i>								H	M	L	SNR
	63	125	250	500	1000	2000	4000	8000				
Mf (dB)	22.0	20.6	21.3	23.6	24.9	27.1	33.3	36.3	27.9	24.3	22.0	26.7
Sf (dB)	8.7	8.8	8.7	7.2	5.1	5.9	4.2	7.7	5.0	5.8	7.3	5.6
APVf (dB)	13.3	11.8	12.6	16.4	19.8	21.2	29.1	28.6	23	19	15	21

### Attenuation values Under the chin (U-T-C) wearing mode

	Frequency (Hz) <i>f</i>								H	M	L	SNR
	63	125	250	500	1000	2000	4000	8000				
Mf (dB)	22.3	22.3	21.8	23.4	25.6	27.3	32.8	35.1	28.3	24.9	22.9	27.2
Sf (dB)	7.9	8.3	7.7	7.2	4.9	4.7	5.3	5.9	4.5	5.4	6.6	5.2
APVf (dB)	14.4	14.0	14.1	16.2	20.7	22.6	27.5	29.2	24	20	16	22

#### Key:

*f* = Test frequency

Mf = Mean attenuation value

Sf = Standard deviation

APVf (Mf - Sf) = Assumed Protection Value

H = High-frequency attenuation value  
(predicted noise level reduction for noise with LC – LA = -2dB)

M = Medium-frequency attenuation value  
(predicted noise level reduction for noise with LC – LA = +2dB)

L = Low-frequency attenuation value  
(predicted noise level reduction for noise with LC – LA = +10dB)

SNR = Single Number Rating (the value that is subtracted from the measured C-weighted sound pressure level, LC in order to estimate the effective A-weighted sound pressure level inside the ear)

Information on Shelf life and service life can be found in the User Instructions.

