

# 3M™ E-A-Rcaps™ Banded Earplugs

## Technical datasheet



### Product description

The 3M™ E-A-Rcaps™ banded earplugs are fitted with ear tips designed to seal the entrance part of the ear canal (semi-aural) to help reduce exposure to harmful levels of noise. 3M™ E-A-Rcaps™ hearing protectors are approved for use in under-the-chin (U-T-C) wearing mode only.

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

### Key features

- ▶ SNR 24 dB
- ▶ A lightweight alternative to earmuffs (mass = 8 g)
- ▶ The flexible band is worn under the chin 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
- ▶ Soft foam eartip provides a good acoustic seal and improved comfort
- ▶ Replacement eartips are available (ES-01-300 / ES-01-301)
- ▶ Compatible with the 3M™ E-A-Rfit™ Dual-Ear Validation System

### 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	Polyurethane foam

### 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.

#### Personal Safety Division

**3M United Kingdom PLC**  
3M Centre  
Cain Road, Bracknell  
Berkshire RG12 8HT  
t: 0870 60 800 60  
[www.3M.co.uk/safety](http://www.3M.co.uk/safety)

**3M Ireland Limited**  
The Iveagh Building  
The Park  
Carrickmines  
Dublin 18  
Ireland

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### Head Size Range

S/M/L

### 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)	20.6	19.4	19.2	18.4	21.2	29.9	37.7	39.3	28.3	21.5	19.7	25.0
Sf (dB)	3.2	4.6	1.9	2.2	2.3	4.0	4.9	3.5	2.2	1.7	1.5	1.5
APVf (dB)	17.4	14.8	17.3	16.2	18.9	25.9	32.8	35.8	26	20	18	24

#### 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.