



## 3M™ E-A-R™ E-A-Rsoft FX™ Roll-Down Ear Plugs

### Product Description

The 3M™ E-A-Rsoft™ FX roll-down ear plugs are designed for insertion into the ear canal to help reduce exposure to hazardous levels of noise and loud sound. These products are available in corded and uncorded version.

### Key Features

- Slow expanding, soft polyurethane foam for all day comfort
- Low pressure inside the ear canal for increase comfort and wearability
- Flange design allows ease of insertion and removal
- Excellent sound attenuation characteristics- SNR 39dB
- Particularly suited for low frequency noise
- Vibrant colour for ease of compliance check
- Available in both corded and uncorded version

### Applications

The 3M™ E-A-Rsoft™ FX earplugs are ideal for high noise exposure levels, and are ideally suited for all frequency noise in a wide range of industrial workplace and leisure environment. Examples of typical applications include:

- Automotive
- Chemical & pharmaceutical manufacture
- Construction
- Heavy engineering
- Metal processing
- Textile manufacture
- Woodworking

### Standard & Approval

The 3M™ E-A-Rsoft™ FX earplugs are tested and CE approved against the European Standard EN352-2:2002. These products meet the Basic Safety Requirements as laid out in Annex II of the European Community Directive 89/686/EEC and have been examined at the design stage by INSPEC International, 56 Leslie Hough Way, Salford, Greater Manchester, M6 6AJ, United Kingdom (Notified Body number 0194).

### Materials

The following materials are used in the manufacture of this product.

Component	Materials
Ear plugs	Polyurethane Foam
Cord	Recycled PVC

### Product Range



E-A-Rsoft™ FX Corded



E-A-Rsoft™ FX  
Uncorded

## Attenuation values 3M™ E-A-Rsoft™ FX

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
Mf (dB)	34.6	37.5	38.5	40.4	38.6	39.6	48.9	47.8
sf (dB)	5.7	6.0	5.4	5.0	4.2	2.5	3.8	3.9
APVf (dB)	28.9	31.5	33.1	35.4	34.4	37.1	45.1	43.9

SNR = 39dB    H = 39dB    M = 36dB    L = 34dB    APVf (dB) = Mf – sf (dB)

### Key

APVf = Assumed Protection Value

Mf = Mean attenuation value

sf = Standard deviation

H = High-frequency attenuation value

(predicted noise level reduction for noise with  $L_c - L_A = -2\text{dB}$ )

M = Medium-frequency attenuation value

(predicted noise level reduction for noise with  $L_c - L_A = +2\text{dB}$ )

L = Low-frequency attenuation value

(predicted noise level reduction for noise with  $L_c - L_A = +10\text{dB}$ )

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

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### Important Notice

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### 3M Occupational Health & Safety Division EMEA Region

3M Centre  
Cain Road  
Bracknell  
Berkshire RG12 8HT  
United Kingdom  
Tel: + 44 (0) 1344 858000  
Web: [www.3M.eu/Safety](http://www.3M.eu/Safety)

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